# **Test Results**

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# International Online Survey (IOS)

## **Bad Robot Enterprises**

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## International Online Survey Test Results

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#### **Section 1: Introduction**

#### 1.1: Introduction & Test Explanation

This document is the first of many possible versions that will be used to describe the testing requirements for the International Online Survey. These are the requirements that need to be tested in order for the International Online Survey to be considered fully functional. As the project development continues towards a completed project, the requirements will be fulfilled, and some items maybe removed, or revised. This document will keep track of these changes, as well as those requirements that have been completed. Many updates will be made to this document in order to better prepare for the Acceptance Test document due in May 2008.

The test plan will begin with system testing. In system testing, our team is concerned with validating the specified functional requirements on the International Online Survey system. The functional requirements of the IOS system will be listed in the system test section along with non-functional requirements, exception handling, our approach to testing, and will end with the system's pass/fail criteria. This test is a crucial part of the test plan because it will help us determine if we met all of the requirements promised at the beginning of our work. Following the system test in this document is the unit testing. This is where our team tests each program unit individually to make sure that specific unit is free of data, logic, or standard errors. We have divided the units up by each page in the system. Every page in the web system has its own unit and within each unit are a number of test cases. These test cases test specific actions within each unit. The following units and test cases are represented in an Excel table format and as we progress and begin to actually produce our software, these units may become more in depth and more dense. The final portion of this document contains the integration and regression testing. This is a crucial stage in the testing process because this is where the separate units tested before combine to become a whole. We are concerned with the functionality of the units together and how they interact with each other in this stage of testing. Finally our testing is complete with regression testing which is only incorporated if software functionality that was working normal, stops working completely or no longer works correctly. Regression testing is used to discover regression bugs which may be causing these errors. As the project continues to grow, so too will this test document.

## **Section 2: System Test**

#### 2.1: Test Items & Functional Requirements Inventory

This section will provide a list of items that are able to be physically tested, unlike the non-functional requirements which are more subjective, and will be discussed later. This portion of

General
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the testing will require the most time, and effort not only from the testing team, but from the developing team to create and fulfill the requirements specified by our client, while trying to keep all modules independent and self sustaining.
The following list outlines the required functionality to be included in the final solution. The requirements are listed according to user case and then by screens the user will view.
General:
* The International Online Survey is web-based.  ✓ YES NO
Administrator:
* The Administrator user will have an account.  ✓ YES  NO  * The Administrator user will have a username and password.  ✓ YES  NO  * The Administrator will establish usernames and passwords for other users.  ✓ YES  NO
Login Screen:
* The Administrator will log in with correct username and password.  ✓ YES NO  * An incorrect login will provide an appropriate error message.  ✓ YES NO
Welcome Screen:
* The Administrator will have access to a control panel on the welcome screen.  ✓ YES  NO  * The Administrator will be able to view all surveys.  ✓ YES  NO
* The Administrator will be able to see site statistics, such as the number of members and surveys.  YES  NO
* The Administrator user will be able to search the database for illegal surveys.  ✓ YES  NO

* The Administrator will be able to choose an illegal survey and delete it.  ✓ YES  NO
* The Administrator will be able to remove or warn the user who created the illegal survey.
YES NO * The Administrator will submit the changes
* The Administrator will submit the changes.  ✓ YES  NO
* A message will appear indicating that a change has been accepted.
✓ YES NO
* The Administrator will have a message box, displaying all messages from users.**
YES NO
* The Administrator will have a link to create new accounts upon request.**
YES NO
* The Administrator will have a link to manage their account.
✓ YES NO
* The Administrator will have a link to list all of the current users.
✓ YES NO
* The Administrator will have access to a search bar, which searches the entire site.  ✓ YES  NO
* The Administrator will be able to logout from the welcome screen by clicking the "Logout
link.
✓ YES NO
Manage Account Screen:
* The Administrator will be able to change their account name and password.  ✓ YES NO
* In order for the changes to take place, the secret question must be answered correctly.  ✓ YES  NO
* The Administrator will be able to exit the manage account screen.  ✓ YES  NO
Change User Password Screen:
* The Administrator user will be able to choose a user for which the password is to be changed.**
YES NO
* The Administrator will enter a new password for the chosen user.** YES NO
* The Administrator will submit changes.**
YES NO
* A message will appear indicating that a change has been accepted.**
YES NO
* The Administrator user will be able to exit the change user password screen.**
YES NO

Create An A	Account Screen:
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	to email the account name and password to the user
requesting an account.**	NO
YES  * The Administrator will be able	
YES	to check if the account name already exists.**  NO
	to check if the email address already has an account
registered.**	
YES	NO
* The Administrator will choose registration information.**	to give out a student account or teacher account based on the
YES	NO
* The Administrator user will be	able to exit the create an account screen.**
YES	NO
List Current Users Screen:	
	to sort users alphabetically by selecting a letter.**
YES	NO
* The Administrator will be able YES	to search the users by account type.**  NO
* The Administrator will be able search bar.**	to search the users by typing in an account name in the
YES	NO
* The Administrator will be sent YES	to the list current users results page after the search.**
	NO able to exit the list current users screen.**
YES	NO
List Current Users Results Screen:	
* The Administrator will view ser YES	arch results alphabetically.** NO
* The Administrator will be able YES	see account names and account types of the search results.** NO
	to click on the accounts to view information about them.**
YES	NO
	able to exit the list current users results screen.**
YES	NO

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reaction.			
	✓ user	will have an account of YES will have a username of YES	established by the Administrator.  NO and password.  NO
Login Screen:			
	√ logii	in with correct usernar YES n will provide an appro YES	NO
Welcome Screen:			
	$\checkmark$	have a link to manage YES have a link to create a	NO
	✓ will	YES	NO veys they have created. NO
	will ✓	be able to select a spec YES	NO h bar, which searches the entire site.
	✓ will	YES	NO the welcome screen by clicking the "Logout" link NO
Manage Account S	Scre	een:	
* The Teacher v		be able to change their YES	r account name and password.
* In order for th		nanges to take place, the YES	ne secret question must be answered correctly.
* The Teacher v		be able to exit the mar YES	nage account screen. NO
User Screen:			
* The Teacher v		be able to see their per YES	rsonal profile (name). NO
	✓	YES	active surveys they created. NO
* The Teacher v		be able to view every s YES	survey they published. NO

* The Teacher will be able to view all surveys they created that they have not published.  ✓ YES NO	
* The Teacher will be able to click on any of these surveys and view the survey and results.  ✓ YES  NO	
* The Teacher will be able to exit the user screen.  ✓ YES NO	
Create a Survey Screen:	
* The Teacher will be able add a title to the survey and information about it.	
✓ YES NO	
* The Teacher will be able to add a new question or edit an existing question.  ✓ YES NO	
* The Teacher will be able to choose from a number of question formats (multiple choice, T/	F,
short answer, etc.).	
✓ YES NO	
* The Teacher will be asked if the survey will be password protected.  ✓ YES NO	
125	
* The Teacher will create a password.  ✓ YES  NO	
* The Teacher will confirm this password.	
✓ YES NO	
* The Teacher will be able to save the survey.	
✓ YES NO	
* The Teacher will receive a confirmation when the survey is saved.	
✓ YES NO	
* The Teacher will be able to print out the survey.	
✓ YES NO	
* The Teacher will be able to edit that survey.** YES NO	
* The Teacher will be able to exit the create a survey screen.	
✓ YES NO	
View Results Screen:	
* The Teacher will be able to view all surveys they have created.  ✓ YES NO	
* The Teacher will be able to select a specific survey and view those results.  ✓ YES  NO	
* The Teacher will be able to send the results to other Teachers, an email will be sent to the other Teacher contain a link to the survey results.**  YES  NO	
* The Teacher will be able to print out the survey results.  VYES  NO	
* The Teacher will be able to allow Students to view the results or deny the Students.**	
YES NO	

- \* The Teacher will be able to exit the view results screen.
  - ✓ YES

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	ser will have an account e.  ✓ YES	stablished by the Administrator. NO
* The Student us	ser will have a username a  ✓ YES	and password. NO
Login Screen:		
	og in with correct usernar  ✓ YES	ne and password.
	ogin will provide an appro ✓ YES	ppriate error message. NO
Welcome Screen:		
	rill have a link to manage   ✓ YES	their account. NO
	rill have a link to take a su ✓ YES	rvey. NO
	vill be able to view survey ✓ YES	invitations. NO
* The Student was incorrect.	fill be given a confirmation	n if the password was correct or an error if it was
	✓ YES vill be able to see a descrip	NO stion of the survey
	✓ YES	NO
screen.		rvey and will be directed to the complete survey
	✓ YES	NO they were invited to take the survey.
	✓ YES	NO
	rill be able to see who invi  ✓ YES	ited them to take the survey.
	vill be able to view comple  ✓ YES	eted and incomplete surveys. NO
	vill be able to view survey ✓ YES	results if granted permission. NO
	vill have access to a search  ✓ YES	bar, which searches the entire site.
	vill be able to logout from ✓ YES	the welcome screen by clicking the "Logout" link NO

		ny of their personal information.
	YES	NO
	be able to change their YES	account name and password. NO
* In order for the ch		ne secret question must be answered correctly.
	be able to exit the man	
	YES	NO
User Screen:		
	be able to see their pers	sonal profile (name, age, gender, etc.).
	· -	surveys they have taken.
	YES	NO
	· ·	yeys they have not taken that have been assigned.
	YES	NO
		of these surveys and view the survey and results, if
they are public.	oc dole to ellek on diff	of these surveys and view the survey and results, if
	YES	NO
	be able to exit the user	
	YES	NO
Take a Survey Screen	•	
		eral surveys open to the public.
	YES	NO
	<u> </u>	ate results of the general surveys.
	YES	NO
		y of the general surveys.
	YES	NO
		popular general surveys.
		NO
	-	cted survey they successfully unlocked.
	YES	NO
	be able to complete the	
	YES	NO
		swers and submit them.
	YES	NO
	be notified if any quest YES	
		NO
	YES	rvey was submitted successfully. NO
V	1 L3	NO

- \* The Student will be able to exit the take a survey screen.  $\checkmark$  YES NO

#### Teacher/Student:

#### Search Results Screen:

\* The user will view search results alphabetically.\*\*

YES

\* The user will be able see account names and account types or survey names.\*\*

YES NO

\* The user will be able to click on the accounts or surveys to view information about them.\*\*

YES NO

#### Password Recovery Screen:

\* The user must answer their secret question and submit their email address.

NO

✓ YES

NO

\* The user will be sent an email containing their account password.\*

YES

\* The user will be shown a message if the secret question was answered wrong or if the email address entered was not found.

✓ YES NO

Along with these requirements, the testing team will concentrate on testing all separate units that compose these requirements. These unit tests are included later on in this document.

- \* This function has been removed.
- \*\* This function is in production.

#### 2.2: Non-Functional Requirements Inventory Testing

- \* The system should be quick and smooth, using fast servers and databases.
- \* The system should also be aesthetically pleasing.

#### 2.3: Exception Handling

While using the International Online Survey there may be some un-predicted circumstances that will cause an error and the International Online Survey must be able to handle some of these errors:

User does not provide all required information for registration:

The user must complete all required fields indicated by a red \*. Required fields will contain necessary information to complete a proper profile. Failure to complete required fields will result in the system asking them to resubmit their information again with the proper data.

User must enter the login name and password that was given to them after registration when attempting to login. Failure to enter valid information will result in the system asking the user to please try again and resubmit their login requirements.

#### 2.4: Approach to Testing

Our approach will be to start with the unit tests provided in this document, then move outwards ensuring that full modules are working correctly, and then look at integration testing of these modules to ensure the system is working properly. The goal of our system is to allow users, in our case, teachers to create surveys and issue you them to their students in order to collect data. The main feature of our program is that we are offering the use of this system free of charge, which allows many more users to take advantage of the software. As the semester continues, we will discuss our progress throughout the testing stages of our software development.

#### 2.5: Pass/Fail Criteria

In order to ensure that the system as a whole passes testing, we must start with each individual piece. The following is a checklist of the major requirements, some of which are based on screens, to ensure that each item has either passed of failed. In order for an item to pass, it will have to undergo its specific unit test as provided. If the unit test causes a failure in the system, we will then need to fix it and use regression testing to re-test the unit/requirement.

Item Being Tested	Testing For	<b>Expected Outcome</b>	Pass	Fail	Comments
1 Login Page	Does the screen load?	The screen should load correctly and users will have the ability to type in their login information.	X		
2 Teacher Account Creation Page	Does the screen load? Is all data uploaded to the database correctly?	The screen should load correctly and users will have the ability to type in their personal information.	X		
3 Student Account Creation Page	Does the screen load? Is all data uploaded to the database correctly?	The screen should load correctly and users will have the ability to type in their personal information.	X		
4 Administrator Welcome Page	Does the screen load?	The screen should load correctly and admin will have access to all functions designated to their user type.	X		
5 Teacher Welcome Page	Does the screen load?	The screen should load correctly and teachers will have access to all functions designated to their user type.	X		
6 Student Welcome Page	Does the screen load?	The screen should load correctly and students will have access to all functions designated to their user type.	X		
7 Administrator/ Teacher Account Management Page	Does the screen load? Is all data uploaded to the database correctly?	The screen should load correctly and users will have the ability to change their personal information.	X		

Item Being	Testing For	<b>Expected Outcome</b>	Pass	Fail	Comments
Tested					
8 Administrator Account Creation Page	Does the screen load? Is all data uploaded to the database correctly?	The screen should load correctly and the new user will be created.			This feature is still in production
9 Permanent User Page (Teacher)	Does the screen load?	The screen should load and display correctly the information about the user.	X		
10 Permanent User Page (Student)	Does the screen load?	The screen should load and display correctly the information about the user.	X		
11 List Current Users Page (Administrator)	Does the screen load?	The screen should load correctly.			This feature is still in production
12 List Current Users Results Page (Administrator)	Does the screen load?	The screen should load correctly with all results from the previous search page.			This feature is still in production
13 Teacher Initial Survey Creation Page	Does the screen load?	Forms to input survey title, topic, and type.	X		
14 Teacher Survey Creation Page	Does the screen load?	Dropdown to pick from a select list of question types.	X		
15 Teacher Edit Survey Page	Does the screen load?	Displays all questions currently added to this survey with buttons to edit, delete, and move.	X		
16 Student Account Management Page	Does the screen load? Is all data uploaded correctly to the database?	The screen should load correctly and users will have the ability to change their personal information.	X		
17 Student Survey Page	Does the screen load? Is all data uploaded correctly to the database?	Displays the survey with a submit button at the button. All data should be uploaded to the database correctly.	X		
18 Search Results Page	Does the screen load?	The screen displays correctly.			This feature is still in production

#### **Section 3: Unit Tests**

The following 18 units will be tested individually and will either pass or fail. If the units meet all functional requirements, they will pass and are ready for the integration test. Once again, the interaction between these units is not important at this time; we are focusing on the performance of each unit individually. All data, logic, and standard errors will be corrected in these units before we move into the next phase of testing.

#### 3.1: Unit Test Catalog

Test Result	Test Number	Unit Test Name
PASS	1	Login Page
PASS	2	Teacher Account Creation Page
PASS	3	Student Account Creation Page
PASS	4	Administrator Welcome Page
PASS	5	Teacher Welcome Page
PASS	6	Student Welcome Page
PASS	7	Administrator/Teacher Account Management Page
PENDING	8	Administrator Account Creation Page
PASS	9	Permanent User Page (Teacher)
PASS	10	Permanent User Page (Student)
PENDING	11	List Current Users Page (Administrator)
PENDING	12	List Current Users Results Page (Administrator)
PASS	13	Teacher Initial Survey Creation Page
PASS	14	Teacher Survey Creation Page
PENDING	15	Teacher Edit Survey Page
PASS	16	Student Account Management Page
PASS	17	Student Survey Page
PENDING	18	Search Results Page

## 3.2: Login Page

Test Number 1 - Login Page

1621 14	umber i - Login Pag	E	1	T	T	1
Number	Test Case Name	Description	Input	Expected Result	Actual Result/Comments	Test Result (Pass/Fail)
				Login page loads and	Login page loads and	
				all components are	all components are	
1.1	Login page loads	Correct page loads	N/A	displayed	displayed	Р
	<u> </u>		Administrator		u.op.a) o u	
			username			
	Correct Login -	Login with valid administrator		Administrator Welcome	Administrator	
	Administrator	account and password	password	page opens	Welcome page opens	Р
			Teacher	p-sgs sp sta	parge spane	
			username			
		Login with valid teacher	and	Teacher Welcome page	Teacher Welcome	
1.3	Correct Login - Teacher	account and password	password	opens	page opens	Р
	<u> </u>		Student			
			username			
		Login with valid student	and	Student Welcome page	Student Welcome	
1.4	Correct Login - Student	account and password	password	opens	page opens	Р
	<u> </u>			Error message stating	Error message stating	
				that the username is	that the username is	
1.5	Incorrect Username Login	Login with invalid username	Username	incorrect is displayed	incorrect is displayed	Р
	g			Error message stating	Error message stating	-
				that the password is	that the password is	
1.6	Incorrect Password Login	Login with invalid password	Password	incorrect is displayed	incorrect is displayed	Р
1.0	incorrect r assword Login	Login with invalid password	assword			
		l a sim suith suranna and a suit		Error message stating	Error message stating	
4 7	Logio with amoty fields	Login with username and password fields empty.	N/A	that the fields are empty	that the fields are	Р
1.7	Login with empty fields	password neids empty.	IN/A	is displayed E-mail address &	empty is displayed	Р
			Cove My F			
	Select Save My E-Mail	Selects Save My E-Mail	Save My E- Mail Address	password of user appears	We removed this	
	Address & Password	Address & Password bubble		every time this page is accessed	feature	_
1.0	Addiess & Fassword	Addiess & Fassword bubble	G F assword		reature	-
	O. I O M. E. M. "	Octobro Octobro B.M. II	0	E-mail address of user	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
	Select Save My E-Mail	Selects Save My E-Mail	Save My E-	appears every time this	We removed this	
1.9	Address	Address bubble	Mail Address	page is accessed	feature	-
	Coloot Alwaya Aak Far Mar			E-mail address &		
	Select Always Ask For My E-Mail Address &	Coloata Caya My E Mail		password of user never	Ma ramayad thia	
		Selects Save My E-Mail	Always ask	appears when this page	We removed this	
1.10	Password	Address & Password bubble	Aiways ask	is accessed	feature	-

Number	Test Case Name	Description	Input	Expected Result	Actual Result/Comments	Test Result (Pass/Fail)
	Click Register Now - Teacher	User clicks the Teacher Register Now button	Teacher	The Teacher Account Creation page opens	The Teacher Account Creation page opens	P
	Click Register Now - Student	User clicks the Student Register Now button	Student	The Student Account Creation page opens	The Student Account Creation page opens	Р
					Summary of Tests for this Unit	Р

## 3.3: Teacher Account Creation Page

Test Number 2 - Teacher Account Creation Page

Number	Test Case Name	Description	Input	Expected Result	Actual Result/Comments	Test Result (Pass/Fail)
2.1	Teacher Account Creation page loads	Correct page loads	N/A	Account Creation page loads with proper items displayed	Account Creation page loads with proper items displayed	P
2.2	Enter accepted username	Teacher enters a username that is accepted	Username	The name is accepted and it will be sent to the admin upon submission	The name is accepted and sent to the admin upon submission	Р
	Enter unaccepted username	Teacher enters a username that is taken or inappropriate	Username	A proper error message will display explaining the problem with the username	A proper error message displays explaining the problem with the username	Р
2.4	Enter accepted password	Teacher enters a password that is accepted	Password	The password is accepted and is compared to the retype	The password is accepted and is compared to the retype	P
	Enter unaccepted password	Teacher enters a password that is unaccepted	Password	A proper error message will display explaining the problem with the password	Proper error message displays explaining the problem with the password	P
2.6	Retype password correctly	Teacher retypes password correctly	Password	Password is accepted and paired with username, sent to admin upon submission	Password is accepted and paired with username, sent to admin upon submission	Р
	Retype password incorrectly	Teacher retypes password incorrectly	Password	A proper error message will display explaining the retype does not match	Proper error message displays explaining the retype does not match	
2.8	Password strength	After user types in password, the strength of that password is displayed	Password	The strength bar will display weak for an easy to hack password, strong if difficult	Bar displays weak for an easy to hack password, strong if difficult	P
2.9	Select secret question	Teacher selects a secret question to answer if they want to change password	N/A	The selected secret question will be sent to the admin upon submission	Secret question sent to the admin upon submission	P

Number	Test Case Name	Description	Input	Expected Result	Actual Result/Comments	Test Result (Pass/Fail)
					Answer to secret	
		Teacher enters an answer to	Answer to	Answer to secret question	· ·	
	Enter secret question	the secret question selected	secret	will be sent to admin with		
2.10	answer	prior	question	question upon submission	submission	Р
					The alternate e-mail	
				The alternate e-mail	address is sent to the	
		Teacher enters an optional	E-mail	address is sent to the	admin upon	
2.11	Alternate e-mail address	alternate e-mail address	address	admin upon submission	submission	Р
				If form is filled out	If form is filled out	
				correctly a success	correctly a success	
		Teacher clicks the submit		message, if not, error	message, if not, error	
2.12	Click submit button	button	N/A	message	message	Р
					Summary of Tests for	
					this Unit	Р

## 3.4: Student Account Creation Page

Test Number 3 - Student Account Creation Page

						Test
Number	Test Case Name	Description	Innut	Exposted Popult	Actual Result/Comments	Result (Pass/Fail)
Number	lest Case Name	Description	Input	Expected Result		(Pass/Fall)
	Student Account			Account Creation page	Account Creation page loads with	
	Creation			loads with proper items	proper items	
3.1	page loads	Correct page loads	N/A	displayed	displayed	Р
0.1	page loads	Correct page loads	13/73	The name is accepted	The name is	
				and it will be sent to	accepted and it will	
	Enter accepted	Student enters a username		the admin upon	be sent to the admin	
3.2	username	that is accepted	Username	submission	upon submission	Р
				A proper error	Error message	-
		Student enters a username		message will display	displayed explaining	
	Enter unaccepted	that is taken or		explaining the problem	the problem with the	
3.3	username .	inappropriate	Username	with the username	username	Р
					The password is	
				The password is	accepted and is	
	Enter accepted	Student enters a password		accepted and is	compared to the	
3.4	password	that is accepted	Password	compared to the retype	retype	Р
				A proper error	Error message	
				message will display	displayed explaining	
	Enter unaccepted	Student enters a password		explaining the problem	the problem with the	
3.5	password	that is unaccepted	Password	with the password	password	Р
				Password is accepted	Password accepted	
				and paired with	and paired with	
	Detura	Ot independent materials and a second		username, sent to	username, sent to	
3.6	Retype password	Student retypes password	Password	admin upon submission	admin upon submission	Р
3.0	correctly	correctly	Password	A proper error	Error message	Г
				message will display	displayed explaining	
	Retype password	Student retypes password		explaining the retype	the retype does not	
3.7	incorrectly	incorrectly	Password	does not match	match	Р
				The strength bar will		-
				display weak for an	Bar will display	
		After user types in		easy to hack	weak for an easy to	
		password, the strength of		password, strong if	hack password,	
3.8	Password strength	that password is displayed	Password	difficult	strong if difficult	Р
				The selected secret	_	
		Student selects a secret		question will be sent to	Secret question sent	
		question to answer if they	Secret	the admin upon	to the admin upon	
3.9	Select secret question	want to change password	question	submission	submission	Р

Number	Test Case Name	Description	Input	Expected Result	Actual Result/Comments	Test Result (Pass/Fail)
		Student enters an answer	Answer to	Answer to secret question will be sent to	Answer to secret question sent to	
	Enter secret question	to the secret question	secret	admin with question	admin with question	
3.10	answer	selected prior	question	upon submission	upon submission	Р
				The alternate e-mail	The alternate e-mail	
				address is sent to the	address is sent to	
		Student enters an optional	E-mail	admin upon	the admin upon	
3.11	Alternate e-mail address	alternate e-mail address	address	submission	submission	Р
				The student's first	The student's first	
				name is sent to the	name is sent to the	
2.40	Fata (Carta a cara	Student enters their first	<b>-</b> :	administrator upon	administrator upon	_
3.12	Enter first name	name	First name	submission The student's last	submission The student's last	Р
				name is	name is	
				sent to the	sent to the	
		Student enters their last		administrator	administrator	
3.13	Enter last name	name	Last name	upon submission	upon submission	Р
3.13	Litter last riaine	Hame	Last Hairie	The student's gender	upon submission	Г
				will be	The student's	
		Student fills bubble for male		sent to the	gender is sent to the	
		or		administrator	administrator	
3.14	Select gender	female	Gender	upon submission	upon submission	Р
	9	Student enters their birth		All birth date	All birth date	
		date		information sent to	information is sent	
		by selecting month and day	Date of	administrator upon	to administrator	
3.15	Enter birth date	and typing in year.	birth	submission	upon submission	Р
0.10	Litter birtir date	and typing in year.	Dirur	An error message	An error message	
		Student forgets one part of		appears telling the user	appears telling the	
		the birth date or enters		to input their	user to input their	
3.16	Improper birth date	illegal value	N/A	information again	information again	Р
				State selected is sent	State selected is	
		Student selects their state		to	sent to	
		from		administrator upon	administrator upon	
3.16	Select state	the pull down menu	State	submission	submission	Р
				Zip code sent to the	Zip code sent to the	
		Student enters their zip		administrator upon	administrator upon	
3.17	Enter zip code	code	Zip code	submission	submission	Р
				Time zone will be		
		Student selects their time		sent to the		
		zone		administrator	We removed this	
3.18	Select time zone	from the pull down menu	Time zone	upon submission	feature	-

Number	Test Case Name	Description	Input	Expected Result	Actual Result/Comments	Test Result (Pass/Fail)
				If student works for small		
				business, info will be		
		Student either checks or	Small	sent to		
		unchecks 'I work for a small	business	admin upon	We removed this	
3.19	Small business checkbox	business'	employee	submission	feature	-
					If all fields are filled	
				If all fields are filled out	out	
				correctly, info sent to	correctly, info sent	
				admin	to admin	
		Student clicks the submit		Error message if	Error message if	
3.20	Click the submit button	button	N/A	missing	missing	Р
					Summary of tests	
					for	
					this unit	Р

## 3.5: Administrator Welcome Page

Test Number 4 - Administrator Welcome Page

Number	Test Case Name	Description	Input	Expected Result	Actual Result/Comments	Test Result (Pass/Fail)
	Administrator welcome page loads	Correct page loads	N/A	Welcome page loads and all components are displayed	Welcome page loads and all components are displayed	Р
4.2	Administrator name is displayed	The correct administrator name is displayed next to 'Welcome'	N/A	Top left corner will say 'Welcome' with admin name in blank	Top left corner says 'Welcome' with admin name in blank	Р
4.3	Click Manage Account	Admin clicks manage account link	Left Click	Administrator manage account page opens	Administrator manage account page opens	Р
4.4	Click Create Accounts	Admin clicks create accounts link	Left Click	Create Accounts page opens	This feature is still in production	-
4.6	Click List Current Users	Admin clicks the list current users link	Left Click	Current Users page opens	This feature is still in production	-
4.7	Click account name	Admin clicks an account name in the permanent users box	Left Click	The users information of the account selected will be displayed		Р
	Click Delete (permanent users box)	Admin clicks delete in the permanent users box	Left Click	The selected user's account is removed from the database	This feature was removed	-
4.9	Click survey name	Admin clicks a survey name in the surveys box	Left Click	The selected survey is displayed for the administrator	The selected survey displayed for the administrator	Р
4.10	Click Delete (surveys box)	Admin clicks delete in the surveys box	Left Click	The selected survey is removed from the database	The selected survey is removed from the database	Р
4.11	Click Ban	Admin clicks ban in the quality control box	Left Click	The selected user's account is banned from the website	This feature was removed	-
4.12	Display message	Admin clicks a message in the quality control box	Left Click	The message selected opened and displayed for administrator	This feature is in production	-

Number	Test Case Name	Description	Input	Expected Result	Actual Result/Comments	Test Result (Pass/Fail)
4.13	Display Total Users	Total Users Published is displayed in the live stats box	N/A	Numerical value of the total users is displayed	Numerical value of the total users displays	Р
4.14	Display Current Users Logged In	Current Users Published is displayed in the current users box	N/A	Numerical value of the total users logged in is displayed.	Numerical value of the Total users logged in displays	Р
4.15	Display Total Surveys Created	Total Surveys Created Published is displayed in the live stats box	N/A	Numerical value of the total surveys created is displayed.	Numerical value of the total surveys created displays	Р
4.16	Display Total Surveys Published	Total Surveys Published is displayed in the live stats box	N/A	Numerical value of the total surveys published created is displayed.	Numerical value of the total surveys published displays	Р
			•		Summary of Tests for this Unit	Р

## 3.6: Teacher Welcome Page

Test Number 5 - Teacher Welcome Page

Number	Test Case Name	Description	Input	Expected Result	Actual Result/Comments	Test Result (Pass/Fail)
5.1	Teacher welcome page loads	Correct page loads	N/A	Welcome page loads and all components are displayed	Welcome page loads, all components are displayed	Р
5.2	Teacher name is displayed	The correct teacher name is displayed next to 'Welcome'	N/A	Top left corner will say 'Welcome' with teacher name in blank	Top left corner says 'Welcome' with teacher name in blank	Р
5.3	Click Manage Account	Teacher clicks manage account link	Left Click	Teacher manage account page opens	Teacher manage account page opens	Р
5.4	Click Create a Survey	Teacher clicks create a survey link	Left Click	Create a Survey page opens	Create a Survey page opens	Р
	Click '+' next to Published Surveys	Teacher clicks the '+' next to Published Surveys	Left Click	Published Surveys expands and teacher's surveys are displayed	Teacher's surveys are displayed	Р
	Click '+' next to Active Surveys	Teacher clicks the '+' next to Active Surveys	Left Click	Active Surveys expands and teacher's surveys are displayed	Teacher's surveys are displayed	Р
	Click '+' next to Unpublished Surveys	Teacher clicks the '+' next to Unpublished Surveys	Left Click	Unpublished Surveys expands and teacher's surveys are displayed	Teacher's surveys are displayed	Р
	Search Function	Teacher clicks the Search button	Survey Name/ Account Name	Search Results page opens with results answering search queries.	This feature is in production	-
5.9	Click Survey Name	Teacher clicks a survey name which is displayed	Left Click	Survey the teacher selects opens	Survey the teacher selects opens	Р
					Summary of Tests for this Unit	P

## 3.7: Student Welcome Page

Test Number 6 - Student Welcome Page

Number	Test Case Name	Description	Input	Expected Result	Actual Result/Comments	Test Result (Pass/Fail)
	Student welcome page loads	Correct page loads	N/A	Welcome page loads and all components are displayed	Welcome page loads, all components are displayed	Р
6.2	Student name is displayed	The correct student name is displayed next to 'Welcome'	N/A	Top left corner will say 'Welcome' with student name in blank	Top left corner says 'Welcome' with student name in blank	Р
6.3	Click Manage Account	Student clicks manage account link	Left Click	Student Manage Account page opens	Student Manage Account page opens	Р
6.4	Click Take a Survey	Student clicks Take a Survey link	Left Click	Take a Survey page opens	Student clicks on survey name to take survey	Р
6.5	Click View Public Results	Student clicks view public results link	Left Click	Public Survey Results page opens	This feature was removed	-
	Click survey name (history box)	Student clicks a survey name in the history box	Left Click	The survey selected is displayed to the student	The survey selected is displayed to the student	P
	Click survey name (non-completed surveys box)	Student clicks a survey name in the non-completed surveys box	Left Click	The survey selected is displayed to the student	The survey selected is displayed to the student	P
6.8	Search Function	Student clicks the Search button	Survey Name/ Account Name	Search Results page opens with results answering search queries.	This feature is in production	-
					Summary of Tests for this Unit	Р

Test Number 7 - Administrator/Teacher Management Page

Number		Description	Input	Expected Result	Actual Result/Comments	Test Result (Pass/Fail)
	Administrator/Teacher Management page loads	Correct page loads	N/A		Page loads, all components are displayed	P
7.2	Administrator/Teacher name is displayed	The correct admin/teacher name is displayed next to 'Welcome'	N/A	Left corner says 'Welcome' with admin/teacher name in blank	Top left corner says 'Welcome' with name in blank	Р
	Enter new accepted username	Admin/teacher enters a username that is accepted	Username	upon submission	Admin/teacher username changed	P
7.4	Enter new unaccepted username	Admin/teacher enters a username that is taken or inappropriate	Username	problem with the	A proper error message displays explaining the problem with the username	P
7.5	Enter new accepted password	Admin/teacher enters a password that is accepted	Password	retype	accepted, compared to the retype	P
	Enter new unaccepted password	Admin/teacher enters a password that is unaccepted	Password	, , ,	A proper error message displays explaining the problem with the password	P
7.7	Retype new password correctly	Admin/teacher retypes password correctly	Password	Admin password changed, teacher password sent to admin upon submission	Admin/teacher password changed	P
7.8	Retype new password incorrectly	Admin/teacher retypes password incorrectly	Password	retype does not match	Proper error message displays explaining the retype does not match	Р
7.9	Password strength	After user types in password, the strength of that password is displayed	Password		Bar will display weak for an easy to hack password, strong if difficult	P
7.10	Secret Question displayed	Admin/teacher secret question is displayed to the user	N/A	The selected secret question will be displayed	The selected secret question will be displayed	Р

Number	Test Case Name	Description	Input	Expected Result	Actual Result/Comments	Test Result (Pass/Fail)
		Admin/teacher enters the answer to the secret	Answer to secret	If answer is correct, allow submission, if incorrect display	If answer is correct, submission allowed, if incorrect displays	
7.11	Enter secret question answer	question displayed prior  Admin/teacher clicks the	question	appropriate message If form is filled out correctly a success message, if not, error	appropriate message  If form is filled out correctly a success message, if not, error	P
7.12	Click submit button	submit button	Left Click	message	message	Р
					Summary of Tests for this Unit	Р

## 3.9: Administrator Account Creation Page

Test Number 8 - Administrator Create User Account Page

Number	Test Case Name	Description	Input	Expected Result	Actual Result/Comments	Test Result (Pass/Fail)
	Administrator Create User Account page opens	Correct page loads	N/A		This feature is in production	-
8.2	Enter e-mail address	Administrator enters an e- mail address	E-mail address		This feature is in production	-
8.3	Select Account Type	Administrator selects the type of account		The type of account created is selected based on the type chosen	This feature is in production	-
8.4	Click submit button	Administrator clicks the submit button	Left Click		This feature is in production	-
					Summary of Tests for this Unit	_

## 3.10: User Page (Teacher)

Test Number 9 - User Page (Teacher)

Number	Test Case Name	Description	Input	Expected Result	Actual Result/Comments	Test Result (Pass/Fail)
				Permanent user page loads, all components are	Permanent user page loads, all components are	
9.1	User (teacher) page opens	Correct page loads	N/A	displayed	displayed	Р
9.2	Teacher name is displayed	The correct teacher name is displayed	N/A	Teacher name appears at the top of the page and next to 'Name:'	Teacher name appears at the top of the page and next to 'Name:'	Р
9.3	Active Surveys	All of the teachers active surveys	N/A	The currently active surveys created by the teacher are displayed	The currently active surveys created by the teacher are displayed	P
9.4	Published Surveys	All of the surveys published by the teacher	N/A	The entire history of published surveys by the teacher is displayed	The entire history of published surveys by the teacher is displayed	Р
9.5	Unpublished Surveys	All of the surveys created but not published by the teacher				Р
9.6	Click survey name	Teacher clicks a survey name which is displayed	Left Click	Survey the teacher selects opens	Survey the teacher selects opens	Р
					Summary of Tests for this Unit	P

## 3.11: User Page (Student)

Test Number 10 - User Page (Student)

lumber	Test Case Name	Description	Input	Expected Result	Actual Result/Comments	Test Result (Pass/Fail
				Permanent user page	Permanent user page	
				loads, all components are	loads, all components are	
10.1	User (student) page opens	Correct page loads	N/A	displayed	displayed	Р
10.2	Teacher name is displayed	The correct student name is displayed	N/A	Student name appears at the top of the page	Student name appears at the top of the page	Р
	Student information displayed	The correct student information is displayed	N/A	All of the students personal information is displayed under 'Student Profile'	All of the students personal information is displayed under 'Student Profile'	P
	Surveys Taken	All of the surveys taken by the student	N/A	The surveys taken by the student are displayed	The surveys taken by the student are displayed	Р
	Surveys Not Taken	All of the surveys still waiting to be taken by the student	N/A	The surveys assigned to the student which have not been taken are displayed	The surveys assigned to the student which have not been taken are displayed	Р
	Click survey name	Student clicks a survey name which is displayed	Left Click	Survey the student selects opens	Survey the student selects opens	Р
					Summary of Tests for this Unit	P

## 3.12: List Current Users Page

Test Number 11 - List Current Users Page (Administrator)

Number	Test Case Name	Description	Input	Expected Result	Actual Result/Comments	Test Result (Pass/Fail)
	List Current Users Page opens	Correct page loads	N/A	Page loads, all components are displayed	This feature is in production	-
11.2	Click letter	Administrator clicks a letter next to sort users	Left Click	List results page opens with accounts begging with letter chosen	This feature is in production	-
11.3	Select account type	Administrator selects an account type next to Search	Account type	The following search will narrow down the results to the account type selected	This feature is in production	-
11.4	Enter search criteria	Administrator enters an account name to search for	Account name	The following search will narrow down the results to the account name selected	This feature is in production	-
11.5	Click Search button	Administrator clicks the search button	Left Click	List results page opens using above search criteria	This feature is in production	
					Summary of Tests for this Unit	-

## 3.13: List Current Users Results Page

Test Number 12 - List Current Users Results Page (Administrator)

Number	Test Case Name	Description	Input	Expected Result	Actual Result/Comments	Test Result (Pass/Fail)
12.1	List Current Users Results Page opens	Correct page loads	N/A		This feature is in production	-
12.2	Name field	The name column displays properly	N/A		This feature is in production	-
12.3	Account Type field	The Account Type column displays properly	N/A		This feature is in production	-
12.4	Click Name	Administrator clicks a Name	Left Click		This feature is in production	-
					Summary of Tests for this Unit	-

## 3.14: Teacher Initial Survey Creation Page

Test Number 13 - Teacher Initial Survey Creation Page

TEST IV	umber 13 - Teacher	Initial Survey Creation	raye			Test
Number	Test Case Name	Description	Input	Expected Result	Actual Result/Comments	Result (Pass/Fail)
	Teacher Initial Survey Creation Page loads	Correct page loads	N/A	Creation page loads and all components are displayed	Creation page loads, all components are displayed	Р
13.2	Teacher name is displayed	The correct teacher name is displayed next to 'Welcome'	N/A	Top left corner will say 'Welcome' with teacher name in blank	Top left corner says 'Welcome' with teacher name in blank	Р
13.3	Click Manage Account	Teacher clicks manage account link	Left Click	Teacher manage account page opens	Teacher manage account page opens	Р
13.4	Click Create a Survey	Teacher clicks create a survey link	Left Click	Create a Survey page opens	Create a Survey page opens	Р
13.5	Enter Survey Topic	Teacher enters the topic of their survey	Survey topic	The survey topic is sent to the database upon submission	The survey topic is sent to the database upon submission	Р
13.6	Enter Survey Name	Teacher enters the name of their survey	Survey name	The survey name is sent to the database upon submission	The survey name is sent to the database upon submission	P
13.7	Select protection	Teacher selects protected or public	Left Click	If public is selected, survey will be accessed by all, and the opposite if protected	If public is selected, survey accessed by all, and the opposite if protected	Р
13.9	Click Submit	Teacher clicks the Submit button	Left Click	The prior information is sent into the database, next survey creation page opens	The prior information is sent into the database, next survey creation page opens	Р
		Teacher clicks the Search button	Survey Name/ Account Name	Search Results page opens with results answering search queries.	This function is in production	-
					Summary of Tests for this Unit	Р

## 3.15: Teacher Survey Creation Page

Test Number 14 - Teacher Create Survey Page

Number	Test Case Name	Description	Input	Expected Result	Actual Result/Comments	Test Result (Pass/Fail)
	Teacher Create Survey Page loads	Correct page loads	N/A	Create Survey page loads, all components are displayed	Create Survey page loads, all components are displayed	Р
14.2	Teacher name is displayed	The correct teacher name is displayed next to 'Welcome'	N/A	Top left corner will say Welcome' with teacher name in blank	Top left corner says 'Welcome' with teacher name in blank	Р
14.3	Click Manage Account	Teacher clicks manage account link	Left Click	Teacher manage account page opens	Teacher manage account page opens	Р
14.4	Click Create a Survey	Teacher clicks create a survey link	Left Click	Create a Survey page opens	Create a Survey page opens	Р
14.5	Click question type	Teacher selects the question type from the pull down menu	Left Click	An empty format of the selected question type is displayed	An empty format of the selected question type is displayed	Р
14.6	Click Submit Question	After question is created, teacher clicks submit question	Left Click	The survey is displayed with created questions	The survey is displayed with created questions	P
14.7	Click Publish Survey	Teacher clicks the publish survey button when complete	Left Click	Survey is published to the website and is displayed to the teacher	Survey is published to the website, displayed to the teacher	Р
14.9	Click Edit Survey	Teacher clicks the edit survey button	Left Click	The Edit Survey page opens	This feature is in production	-
14.10	Search Function	Teacher clicks the Search button	Survey Name/ Account Name	Search Results page opens with results answering search queries.	This feature is in production	-
					Summary of Tests for this Unit	Р

## 3.16: Teacher Edit Survey Page

Test Number 15 - Teacher Edit Survey Page

Number	Test Case Name	Description	Input	Expected Result	Actual Result/Comments	Test Result (Pass/Fail)
	Teacher Edit Survey Page loads	Correct page loads	N/A	Edit Survey page loads, all components are displayed	This feature is in production	-
15.2	Teacher name is displayed	The correct teacher name is displayed next to 'Welcome'	N/A	Top left corner will say 'Welcome' with teacher name in blank	This feature is in production	-
15.3	Click Manage Account	Teacher clicks manage account link	Left Click	Teacher manage account page opens	This feature is in production	-
15.4	Click Create a Survey	Teacher clicks create a survey link	Left Click	Create a Survey page opens	This feature is in production	-
15.5	Click Add Question	Teacher clicks the add question button	Left Click	Teacher Create Survey page opens	This feature is in production	-
15.6	Click arrow up/down	Teacher clicks the arrows next to a question up/down	Left Click	Question moves up if up arrow is clicked and down if down arrow is clicked	This feature is in production	-
15.7	Click Delete	Teacher clicks the delete button next to a question	Left Click	The selected question is removed from the survey	This feature is in production	-
15.8	Click Submit Changes	Teacher clicks the submit changes button	Left Click	The changes made are published over the old survey	This feature is in production	-
15.9	Search Function	Teacher clicks the Search button	Survey Name/ Account Name	Search Results page opens with results answering search queries.	This feature is in production	-
					Summary of Tests for this Unit	_

## 3.17: Student Account Management Page

Test Number 16 - Student Account Management Page

Number		Description	Input	Expected Result	Actual Result/Comments	Test Result (Pass/Fail)
16.1	Student Account Management page loads	Correct page loads	N/A	Account Management page loads with proper items displayed	Account Management page loads with proper items displayed	Р
	Enter new accepted username	Student enters a username that is accepted	Username	The name is accepted and it will be sent to the admin upon submission	The name is accepted and changed	Р
	Enter new unaccepted username	Student enters a username that is taken or inappropriate	Username	A proper error message will display explaining the problem with the username	A proper error message displays explaining the problem with the username	Р
	Enter new accepted password	Student enters a password that is accepted	Password		The password is accepted, compared to the retype	Р
	Enter new unaccepted password	Student enters a password that is unaccepted	Password	A proper error message will display explaining the problem with the password	A proper error message displays explaining the problem with the password	Р
	Retype new password correctly	Student retypes password correctly	Password		Password is accepted and paired with username	Р
	Retype new password incorrectly	Student retypes password incorrectly	Password	A proper error message will display explaining the retype does not match	Error message displays if retype does not match	Р
16.8	Password strength	After user types in password, the strength of that password is displayed	Password	The strength bar will display weak for an easy to hack password, strong if difficult	Bar will display weak for an easy to hack password, strong if difficult	Р
16.9	Secret Question	Student's secret question is displayed	N/A	creation is displayed	The secret question chosen during account creation is displayed	Р
16.10	Enter secret question answer	Student enters an answer to the secret question selected prior	Answer to secret question	upon submission, error if	If correct, account changes are made, error if wrong	P

Number	Test Case Name	Description	Input	Expected Result	Actual Result/Comments	Test Result (Pass/Fail)
				The student's first name		
				is sent to the		
		Student enters their first		administrator upon	The student's first	
16.11	Enter new first name	name	First name	submission	name is changed	Р
				The student's last name		
				is .		
				sent to the	<b>-</b>	
40.40	Enter now lost none	Student enters their last	l aat nama	administrator	The student's last	Б
16.12	Enter new last name	name	Last name	upon submission	name is changed	Р
				The student's gender will be		
		Student fills bubble for		sent to the		
		male or		administrator	The student's gender	
16.13	Select new gender	female	Gender	upon submission	is changed	Р
	<b>3</b>	Student enters their birth			J	
		date		All birth date information sent to		
		by selecting month and day		administrator upon	The student's birth	
16 14	Enter new birth date	and typing in year.	Year of birth		date is changed	Р
	Enter new share date	,, ,	Tour or birar			•
		Student selects their state		State selected is sent to	The student's state is	
16 15	Select new state	from the pull down menu	State	administrator upon submission	changed	Р
10.13	Select new state	the pull down mend	State		changed	
		Other department of the single		Zip code sent to the	The atual and a single and a	
16 16	Enter new zin eede	Student enters their zip	Zin aada	administrator upon	The student's zip code	Р
10.10	Enter new zip code	code	Zip code	submission Time zone will be	is changed	Р
		Student selects their time		sent to the		
		zone		administrator	This feature was	
16.17	Select new time zone	from the pull down menu	Time zone	upon submission	removed	_
	Delegation time 20110	nom are pair devin mena	11110 20110	If student works for	- Ciliovou	
		Student either checks or		small		
		unchecks 'I work for a	Small	business, info will be		
		small	business	sent to	This feature was	
16.18	Small business checkbox	business'	employee	admin upon submission		-
				If all fields are filled out		
					are filled out	
					correctly,	
40.40		Student clicks the submit	21/2		error message if	
16.19	Click the submit button	button	N/A	missing	missing	Р
					Summary of tests for	_
					this unit	Р

## 3.18: Student Survey Page

Test Number 17 - Student Take Survey Page

Number	Test Case Name	Description	Input	Expected Result	Actual Result/Comments	Test Result (Pass/Fail)
	Student Take Survey page loads	Correct page loads	N/A	Take Survey page loads, all components are displayed	Take Survey page loads, all components are displayed	P
17.2	Student name is displayed	The correct student name is displayed next to 'Welcome'	N/A	Top left corner will say 'Welcome' with student name in blank	Top left corner says 'Welcome' with student name in blank	Р
17.3	Click Manage Account	Student clicks manage account link	Left Click	Student Manage Account page opens	Student Manage Account page opens	Р
17.4	Click Take a Survey	Student clicks Take a Survey link	Left Click	Take a Survey page opens	Survey page opens when survey name clicked	Р
17.6	Answer question	Student answers a question	Answer	The answer to the question is stored in the database upon submission	The answer to the question is stored in the database upon submission	Р
17.7	Click Save Answers	Student clicks the save answers button	Left Click	Answers are saved, student may return back and complete the survey later	This feature is in production	_
	Click Submit Survey	Student clicks the submit survey button	Left Click	The survey results are shown if all fields are filled, error message if empty fields	The survey results are shown if all fields are filled, error message if empty fields	Р
	Search Function	Student clicks the Search	Survey Name/ Account Name	Search Results page opens with results answering search queries.	This feature is in production	-
					Summary of Tests for this Unit	Р

## 3.19: Search Results Page

Test Number 18 - Search Results Page

Number	Test Case Name	Description	Input	Expected Result	Actual Result/Comments	Test Result (Pass/Fail)
	Search Results page opens	Correct page loads	N/A	Search Results page loads, all components are displayed	This feature is in production	-
18.2	Survey/Usernames	The survey names or account names are displayed	N/A		This feature is in production	-
18.3	Click username	User clicks a username	Left Click	The information of the selected user is displayed	This feature is in production	-
18.4	Click survey name	User clicks a survey name	Left Click		This feature is in production	-
					Summary of Tests for this Unit	-

#### **Section 4: Integration/Regression Test**

#### 4.1: Explanation & Integrated Units

The International Online Survey is being created on the foundation of already produced modules, the integration and regression tests conducted for this project will consist mostly of user created instances.

In the event that a unit does not pass the following tests, that unit will be fixed, and then that unit along with all related units will be re-evaluated for accuracy. In the event that one unit passes and the other does not pass, both units will need to be evaluated in order to determine where and why the error occurred. In that event, depending on the circumstances in which the error occurred, all affected units may need to be retested.

Unit Number	Linked Units	Results
1	2, 3, 4, 5, 6	Р
2	1	Р
3	1	Р
4	7, (8), 9, 10, (11), (12), (18)	Р
5	7, 13, 14, 15, (18)	Р
6	(16), 17, (18)	Р
7	4, 5	Р
8	4	-
9	4	Р
10	4	Р
11	4	-
12	4	-
13	5, (18)	Р
14	5, (18)	Р
15	5, (18)	-
16	6	Р
17	6, (18)	Р
18	4, 5, 6, 13, 14, 15, 17	-

#### Results

- For all of the functions implemented, integration was successful.
- The blanks in the above chart signify units that are still in production and therefore are unable to be integrated into the IOS system.