



18. Appendix C: Data Dictionary

WORMS DATA DICTIONARY							
Data Name	Can be NULL	Data type	Data Form	Example Acceptable Inj	Bad Input	Applicable to	Description
address	No	VARCHAR(100)	1 - 100 chars	515 Loudon Road	empty input, >100 chars	Create account	The account owner's address
city	No	VARCHAR(100)	1 - 100 chars	Loudonville	empty input, >100 chars	Create account	The account owner's city
countryIndex	No	INT	0-195 chars			Create account	The index of the account owner's country
department	Yes	VARCHAR(100)	1 - 100 chars	Computer Science	empty input, >100 chars	Create account	The account owner's school department
email	No	VARCHAR(100)	3 - 100 chars	siena@siena.edu	sienasiena.edu, @	Create account	The account owner's email address
eventLocation	No	VARCHAR(100)	1 - 100 chars	Roger Bacon 202	empty input, >100 chars	Register	Location of the scheduled event
eventTime	No	DATETIME		Time during the conference	Time not during the conference	Register	Time of the scheduled event
eventTitle	No	VARCHAR(100)	1 - 100 chars	Welcome speech	empty input, >100 chars	Register	Name of the scheduled event
firstName	No	VARCHAR(100)	1 - 100 chars	Darren, Joe	empty input, Darren123	Create account	The account owner's first name
isConferenceChair	No	BOOL		True/False	N/A	Create account, Configure	Is the user a conference chair
isPresenting	No	BOOL		True/False	N/A	Register, Submit	If the user has submitted a work that was accepted, will that user present the work
isProrammingContest TeamLeader	No	BOOL		True/False	N/A	Register	Is the user registered as a programming contest team leader
isRegistered	No	BOOL		True/False	N/A	Register	Is the user registered to attend the conference
lastName	No	VARCHAR(100)	1 - 100 chars	Lim, Lederman	empty input, Lim123	Create account	The account owner's last name
mealSelection	No	INT	0 - (number of choices -1)	1	-1	Register	An identifier indicating the meal selection
normalFee	No	DECIMAL(10,2)	> 0	30,2	0,-1	Configure Conference,	Normal conference attendance fee
organization	Yes	VARCHAR(100)	1 - 100 chars	Siena College	empty input	Create account	The account owner's organization or company
password	No	string	8 - 32 chars	mypassword123	pass, empty input	Create account, Login	User's password
passwordHash	No	BINARY(32)	32 bytes	any 32 bytes	N/A	Create account, Login	The account's hashed password (SHA256)
personalTitle	No	VARCHAR(10)	1 - 10 chars	Dr., Mr., Mrs.	longer than 10 chars, Dr1234&	Create account	The account owner's personal title



Data Name	Can be NULL	Data type	Data Form	Example Acceptable Input	Bad Input	Applicable to	Description
phoneNumber	Yes	VARCHAR(20)	10 - 20 chars	5183219999, 518-321-9999	321-9999, 1234567	Create account	The account owner's phone number
position	No	VARCHAR(100)	1 - 100 chars	Associate Professor	\$***-##/	Create account	The account owner's academic title or professional position
programmingContestFee	No	DECIMAL(10,2)	> 0	50	0,-1	Configure Conference, Register	Programming contest attendance fee
programmingContestTeamId	No	VARCHAR(100)	1 - 100 chars	Team 1		Register	Name of program contest team
review	No	TEXT	Text data max 1 mb	Any ASCII text data < 1mb		Review	Text data for a review written by a reviewer for a scholarly work
reviewerId	Yes	INT	0 - (number of reviewers - 1)	0, 1, 2, NULL	number greater than the number of reviewers	Review	The ID of the reviewer data associated with this user if the user is a reviewer
scholarlyWorkAccepted	No	BOOL		True/False	N/A	Submit, Review	Whether or not a scholarly work has been accepted
scholarlyWorkDeadline	No	DATETIME		12/07/2012	12/07/2011	Submit, Review	A specified deadline for submission
scholarlyWorkFile	N/A	File on disk	max 20 mb			Submit, Review	A file uploaded by a submitter
scholarlyWorkFileName	No	CHAR(64)	64 hex digits	7d666e82dc53680ff3cc050071a49a00286af4f6ee	mission.pdf, Submission	Submit, Review	Name of the file used to store a scholarly work. Automatically generated.
scholarlyWorkTitle	No	VARCHAR(50)	1 - 50 chars	Some Title	empty input, >50 chars, contains nonprintable	Submit, Review	Title of a submitted work
scholarlyWorkTopicId	No	INT	0 - (number of topics -1)	0,1,2	#####	Submit, Review	An identifier indicating the topic of a work
scholarlyWorkTypeId	No	INT	0 - 6	1,2,3,4	-1,10	Submit, Review	An identifier indicating the type of a work
stateTerritoryProvince	No	VARCHAR(100)	1 - 100 chars	New York	empty input, > 100 chars	Create account	The account owner's state
studentFee	No	DECIMAL(10,2)	> 0	20,5	0,-1	Configure Conference, Register	Student attendance fee
submissionChairId	Yes	INT	0 - (number of submission chairs -1)	0,1,2, NULL	number greater than the number of submission chairs	Create account, Review	The ID of the submission chair data for this user if the user is a submission chair
userId	No	INT	0 - (number of users - 1)			All	Unique ID linked to a user. User ID 0 is the system admin.
zipCode	Yes	CHAR(5)	5 chars	12211	empty, 1234, 1	Create account	The account owner's zip code
workshopSelection	Yes	INT	0 - (number of workshops - 1)	0,1,2,NULL	number > number of workshops	Register	The ID of the workshop a user registering for the conference wishes to attend
workshopTitle	No	VARCHAR(100)	1 - 100 chars	Computer Science Education	empty input, >100 chars	Register	The title of a workshop that attendees may register for.



WORMS
Login

To allow a user to login to the system

Test Cases								
Pass/Fail Status	Test Number	Description	Action to perform test (input)	Steps to be Executed	State Before Test	Expected result	Observed result	Comments
F	1,001	Empty email field	Leave email field empty	Fill in password field and click login button	Empty Form	Error Message: "Please enter your email"		
F	1,002	Empty password field	Leave password field empty	Fill in email field and click login button	Empty Form	Error Message: "Please enter your password"		
F	1,003	Both Correct	Enter an email that does exist in the database	Enter the correct password for that user.	Empty Form	Navigate to user home page		
F	1,004	Wrong email	Enter an email that does not exist in the database	Enter something in the password field and click login button.	Empty Form	Error Message: "Incorrect email"		
F	1,005	Wrong password	Enter an email that exists in the database	Enter a password that does not correspond to the email provided and click the login button	Empty Form	Error Message: "Incorrect password"		
F	= Unit Summary			0% passing		0 passed		Date of last
	5	tests				5 failed		



WORMS
Create Account

To allow a user to create a new account

Test Cases								
Pass/Fail Status	Test Number	Description	Action to perform test (input)	Steps to be Executed	State Before Test	Expected result	Observed result	Comments
F	2,001	Valid email address	Enter email address which does not have an @ symbol designating an email provider	Enter an invalid email and fill out all other fields and click submit button	Empty form	Error Message: "Invalid email address"		
F	2,002	Valid password	Enter a invalid password	Enter an invalid password and fill out all other fields and click the submit button	Empty form	Error Message: "Invalid password"		
F	2,003	Matching passwords	Enter two passwords which do not match	Enter the two non matching passwords and all other fields and click the submit button	Empty form	Error Message: "Passwords do not match"		
F	2,004	Verification email	Check to see if account received verification email in their email's inbox	Check account's email inbox and click verification link. Then manually check user database for the account to see if it is now verified	Account created, verification email not received	Account in user database is listed as verified		
F	2,005	Empty required fields	Fill out the form leaving a required field empty	Fill out all other fields except one required field and click the submit button	Empty form	Error Message: "Please fill out all required fields"		
F	= Unit Summary			0% passing		0 passed		Date of las
	5	tests				5 failed		



WORMS

Submit

To allow a user to submit their scholarly work

Test Cases									
Pass/Fail Status	Test Number	Description	Action to perform test (input)	Steps to be Executed	State Before Test	Expected result	Observed result	Comments	Tested By
F	3,001	Valid Format	Enter a file that does not end in .pdf indicating a pdf file format	Enter an invalid file format and fill out all other fields and click submit button	Empty form	Error Message: "Invalid format,PDF required"			
F	3,002	Empty required fields	Fill out the form leaving a required field empty	Fill out all other fields except one required field and click the submit button	Empty form	Error Message: "Please fill out all required fields"			
F	3,003	Successful storage into the database	Submit a scholarly work in a valid .pdf format with all required fields completed	With a valid .pdf format and all fields required, click the submit button and manually view the database to ensure a successful submission	Valid database, submittable .pdf, and all required fields completed	Error Message: "Failure: Did not successfully insert into the database"			
F	3,004	Title selected	Submit a scholarly work in a valid .pdf format without any text in the title field	Select a valid scholarly work in the correct format without the title field filled out and click the submit button	Valid scholarly work format, empty title field	Error Message: "Please designate a title for your submission"			
F	3,005								
F	= Unit Summary		0% passing		0 passed		Date of last test =		
	4	tests			4 failed				



WORMS Review

To allow a user to view and review submitted works and submit their evaluation

Test Cases									
Pass/Fail Status	Test Number	Description	Action to perform test (input)	Steps to be Executed	State Before Test	Expected result	Observed result	Comments	Tested By
F	4,001	Empty required fields	Fill out the form leaving a required field empty	Fill out all other fields except one required field and click the submit button	Empty form	Error Message: "Please fill out all required fields"			
F	4,002	Successful storage of review into the database	Completely fill out the review form	With the form completely filled out, hit the submit button and manually check the database to ensure that the review was successfully submitted	Valid scholarly work in the database waiting to be reviewed	Error Message: "Failure: Did not successfully insert into the database"			
F	4,003	Ensure reviewer is given an even number of randomly issued papers not from their host school	Click the button to issue out all of the papers to be reviewed	Click the button to issue out all the papers using our automated algorithm and ensure that no person receives an incorrect number of papers and/or papers from their host school	10 submitted papers, 3 from RPI, Siena, 4 from Union College. There will also be 2 reviewers, 1 from Siena and 1 from RPI.	Siena reviewer grading 3 papers from RPI, 2 papers from Union. RPI reviewer grading 3 papers from Siena, 1 from Union.			
F	4,004								
F	4,005								
F	= Unit Summary		0% passing		0 passed		Date of last test =		
	3	tests			3 failed				
Directory Page									

