## ID-10t Consultants

# **Generation Java Preliminary Design**

Roger Bacon Science Center, Room 328
December 3, 2008
8:15 am

ID-10t Consultants Preliminary Design 12/3/2008 Presentation Dr. Darren Lim Assistant Professor Department of Computer Science Siena College

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### Team Members

- Product Overview
- Data Flow & Structure Diagrams
- Data Dictionary
- Test Plan
- Prototypes
- Status & Conclusion



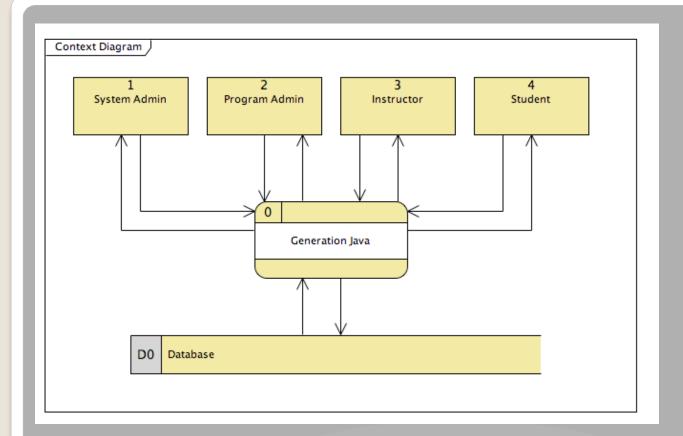
- Generation Java will provide services to:
  - Students
  - Instructors
  - Administrators
    - System
    - Program

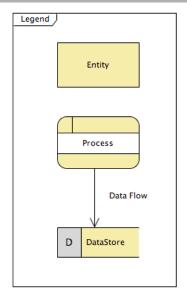
### Introduction & Product Overview

ID-10t Consultants
Preliminary Design
Presentation

- Introduction & Product Overview
- Data Flow & Structure Diagrams
- Data Dictionary
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- Prototypes
- Status and Conclusion

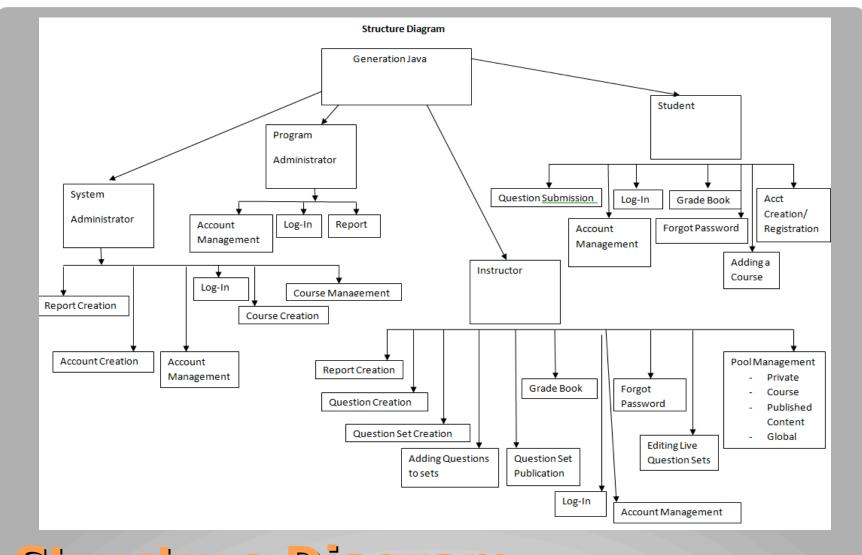






## Data Flow Diagrams

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Structure Diagram

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#### ID-10t Consulants Data Dictionary

Date:	11/2	0/08
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TABLE	COLUMN	DATA TYPE	DESCRIPTION	NOTES	VALIDATION
students	std_id	VARCHAR(8)	Siena College network login -first & middle initial -the day of the month you were born (two digits) -the first four letters of your last name	Required: Primary Key Varations/Exceptions: -If you have no middle initial, just skip it -if you have an apostrophie in your name (e.g., O'Brien), leave it out -if your last name is less than four letters, write what you have	AlphaNumeric -option 1: two chars, two digits, & at least two chars -option 2: one char, two digits, & at least two chars
students	std_email		student's e-mail address		
students	std_fname	VARCHAR(20)	student's first name		
students	std_Iname	VARCHAR(20)	student's last name		
students	std_password	VARCHAR(15)	student's password	Chosen by student at account creation	AlphaNumeric

## Data Dictionary

TABLE	COLUMN	DATA TYPE	DESCRIPTION	NOTES
prg_adm	prg_email	VAR CHAR(30)	program administrator's e- mail address	
prg_adm	prg_fname	VARCHAR(20)	program administrator's first name	
prg_adm	prg_Iname	VARCHAR(20)	program administrator's last name	
prg_adm	prg_password	VARCHAR(15)	program administrator's password	Chosen by the system administrator at account creation
prg_adm	prg_course	VARCHAR(10)	program administrator coordinates the specified course, section-wide	Chosen by the system administrator at account creation
course	course_number	VARCHAR(10)	course subject followed by course number and section number	Required: Primary Key Ex. CSIS220-10
course	course_name	VARCHAR(30)	course name	
course	semester	VARCHAR(10)	semester in which the course is offered	Chosen by the system administrator at course creation
course	course_inst	VARCHAR(20)	course instructor	
course	course_pw	VARCHAR(15)	course password	Chosen by the system administrator at course creation

## Data Dictionary

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- Software Testing
  - Unit Testing
  - Integration
  - System Testing
  - Performance Testing
  - Acceptance Testing

Test Plan

#### Unit 5 Student Home Page

Note: Assume a Student has successfully logged in. A student refers to a Student user, or any user in the Student view.

#### Test Case

Pass/Fail	Number	Step	Description	Action Needed	Expected Result	Observed Result	Comments
	5.001	Student Home Page loads	Correct page loads	N/A	Student Home Page loads and is appropriately displayed		
	5.002	Home button clicked	A Student wishes to go to the Home Page	Student clicks the "Home" link	Student Home Page is loads and is appropriately displayed		
	5.003	Gradebook button clicked	A Student wishes to view the Gradebook	Student clicks the "Gradebook" link	Student Gradebook is correctly reloaded		
	5.004	Current course clicked	A Student wishes to view the page of a particular current course	Student clicks a current course	Correct page is loaded for the given course		
	5.005	Completed course clicked	A Student wishes to view the page of a particular completed course	Student clicks a completed course	Correct page is loaded for the given course		
	5.006	Logout button clicked	A Student wishes to log out	Student clicks the logout button	The user is successfully logged out and redirected to the login screen		
	= Summary of Tests for This Unit						•

### Test Plan

Unit 6

Administrator Account Creation Page

Note: This is done by the System Administrator in order to create Student, Instructor, and Program Administrator accounts.

#### Test Case

Pass/Fail	Number	Step	Des cription	Action Needed	Expected Result	Observed Result	Comments
		Administrator	Correct page loads	N/A	Administrator Account		
		Account Creation			Creation page loads and is		
	6.001	page loads			appropriately displayed		
		Enter accepted	System	Input first name	No illegal characters, the		
		first name	Administrator enters		name is accepted		
			first name with no				
			illegal characers.				
	6.002						
		Enter un accepted	System	Input first name	Page reloaded with proper		
		first name	Administrator enters		error message displayed		
			first name with				
			illegal characers				
	6.003	<u> </u>			N. 31		
		Enter accepted	System	Input last name	No illegal characters, the		
		last name	Administrator enters		name is accepted		
			last name with no				
	6.004		illegal characters				
<u> </u>	0.004	Enter unaccepted	System	Input last name	Page reloaded with proper		
		last name	Administrator enters		error message displayed		
		lastilallie	last name with		en or message displayed		
			illegal characters.				
	6.005		inegai cital acters.				
		Enter accepted	System	Input email	No illegal characters, the		
		email address	Administrator enters	address	email address is valid. The		
			a unique and valid		address is accepted		
			email address with				
			legal characters				
	6.006						

### Test Plan

010/24/2008

Unit 6 Administrator Account Creation Page

Note: This is done by the System Administrator in order to create Student, Instructor, and Program Administrator accounts.

Test Case

	Lest Case				
	Enter unaccepted	System	Input email	Page reloaded with proper	
	email address	Administrator enters	address	error message displayed	
		a non-unique email			
		address or one that			
		is invalid or contains			
		illegal characters			
6.007					
	Enter accepted	System	Input password	Password is compared to	
	password	Administrator enters		confirmation password	
		a password of the			
		proper length with			
		no illegal characters			
6.008					
	Enter unaccepted	System	Input password	Page reloaded with proper	
	password	Administrator enters		error message displayed	
		a password not of			
		the proper length or			
		containing illegal			
		characters			
6.009					
	Confirm password	System	Input password	Confirmation password	
	correctly	Administrator		matches password and is	l
		retypes the		accepted.	
6.010		password correctly			
	Confirm password	System	Input password	Confirmation password does	l
	incorrectly	Administrator		not match the password. Page	l
		retypes the		reloaded with proper error	
		password incorrectly		message displayed.	l
6.011					

## Test Plan

010/24/2008

Unit 6 Administrator Account Creation Page

Note: This is done by the System Administrator in order to create Student, Instructor, and Program Administrator accounts.

Test Case

		CSI OUSC					_	
6	6.012	Select Account Type	The type of account (Program Administrator, Instructor, or Student) is selected	Administrator selects the account type from a drop-	The user is successfully created as the specified type			
6	6.013	Select Course	The new user is assigned to the given course. Students are enrolled, Instructors instruct, and Program Admininstrators moderate	System Administrator selects the course from the Course List (if desired)	The user is successfully assigned to the specified course(s)			
	6.014	Create Account button	System Administrator wishes to create the account	Student clicks "Submit"	If all fields are filled out and contain correct data, the information is stored. If a field is missing data, the proper error message is displayed.			
= 5	= Summary of Tests for This Unit							

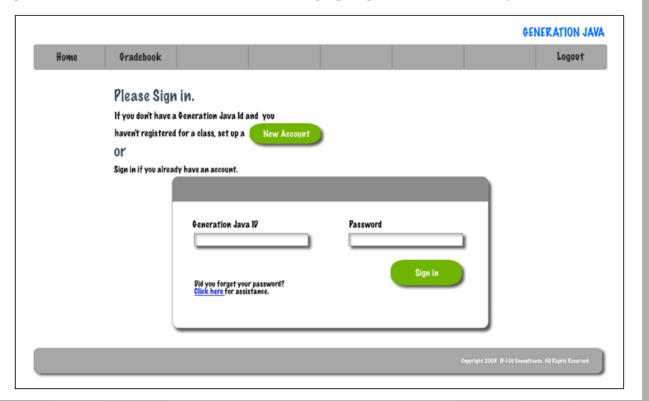
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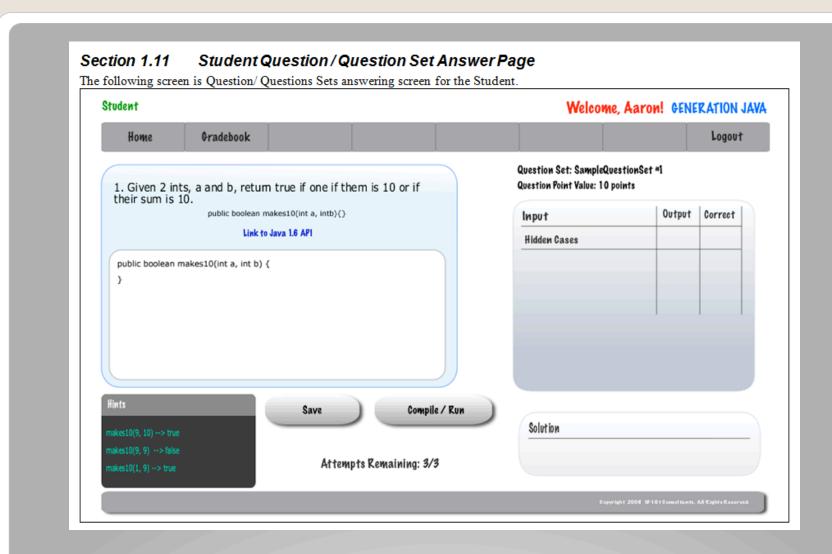


#### Section 1.01 Login

The login screen is the first screen that a user will visit when attempting to login to the Generation Java system.



## Prototypes

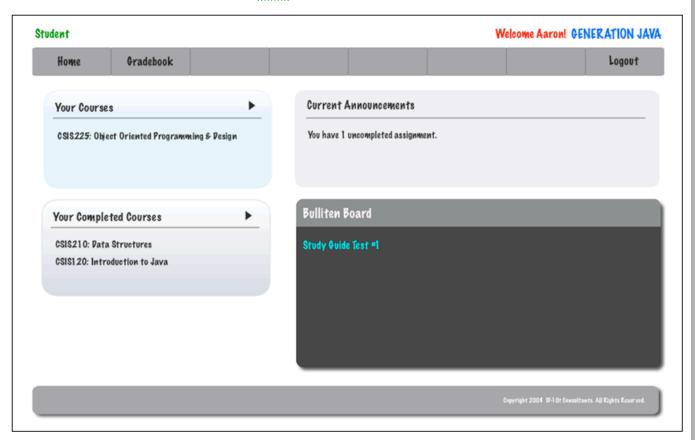


### Prototypes

ID-10t Consultants Requirements Specification 010/24/2008 Presentation

#### Section 1.10 Student Screen Level 0

The following screen is the homepage, or level 0 screen, for the Student.

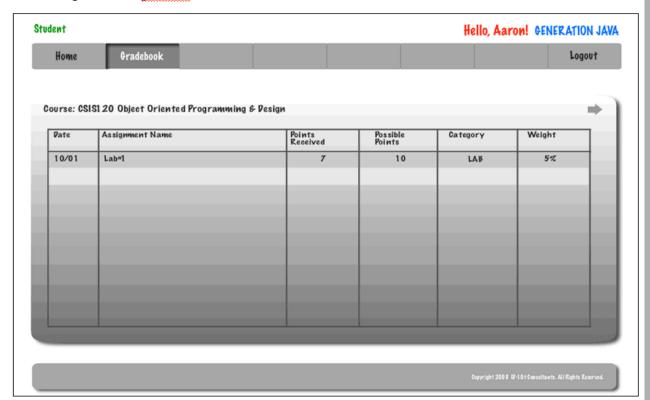


## Prototypes

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The following screen is the gradebook for the Student.



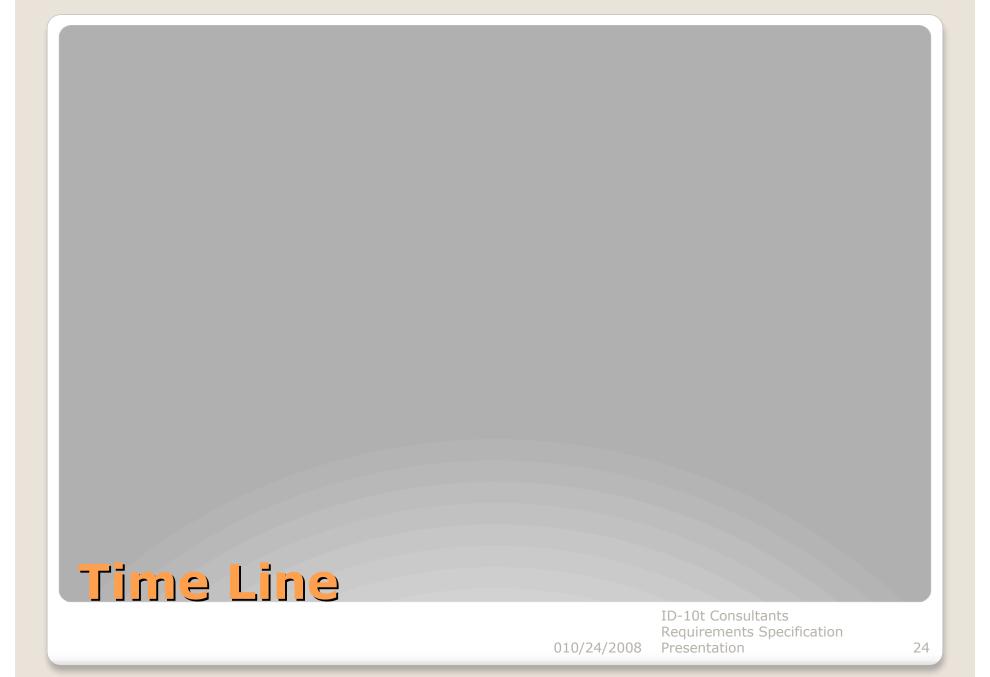
## Prototypes

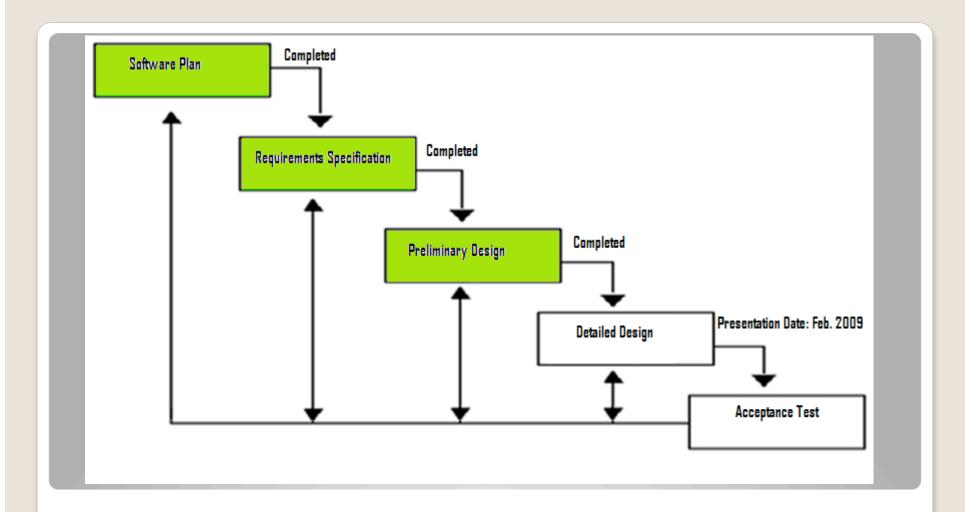
ID-10t Consultants Requirements Specification Presentation

010/24/2008

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## Waterfall (Linear) Model

Project Management & Development Model

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# Thank You

Next Presentation: Detailed Design February, 2009 Roger Bacon Science Center, Room 328