ENTERPRISE APPLICATION DEVELOPMENT

IDS 517

(FALL SEMESTER)

GROUP

f15g116

Members

Sneha Bongale - 651554101

Lekshmi A. S. - 668626371

Samarth Sachdeva - 661529605

Aditi Vishwasrao - 674849041

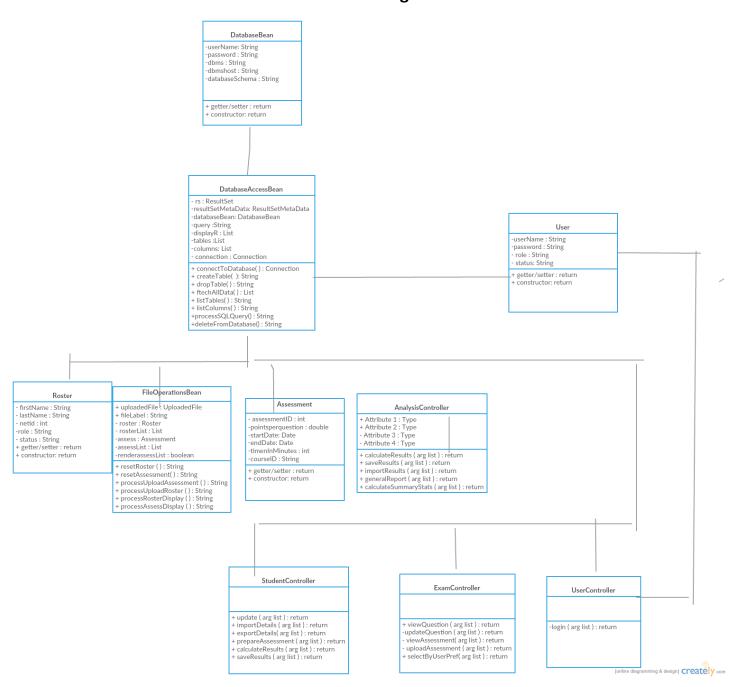
Requirements Document:

#	Description	R	U	М	В	Α	Туре	Source	Criticality
	Application should display all	Υ	Υ	Υ	Υ	Υ	Functional	Management	Critical
	items in their homepage based	-	-	-	-				
1	on category of users.								
	Application should allow new	Υ	Υ	Υ	Υ	Υ	Functional	Management	Critical
	users to create login details								
	using their user credentials or								
2	allow existing users to login.								
	Application should be able to	Υ	Υ	Υ	Υ	Υ	Technical	Data	Important
	encrypt the customer							Warehousing	
	credentials and store them in								
3	the database.								
	Application should allow	Υ	Υ	Υ	Υ	Υ	Functional	Management	Critical
	registered users to login to the								
	website using appropriate								
4	credentials.					1			
	Application should allow	Υ	Υ	Υ	Υ	Υ	Functional	Management	Critical
	registered users to view and								
_	modify the account details and								
5	personal information.	٧.	٧.	٧.	\ <u>'</u>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Taskaisal	Doto	Cuitinal
	Application should maintain separate interfaces for	Υ	Υ	Υ	Υ	Υ	Technical	Data	Critical
	TA's, tutors, instructors and							Warehousing	
	students and content should be								
	displayed based on the								
6	credentials entered.								
	Application should display	Υ	Υ	Υ	Υ	Υ	Functional	Management	Critical
	user's guide along with the								
	ability to logout after logging in								
	and programmer's								
	documentation links that open								
	in separate pages, and where								
	appropriate subsequent pages								
	should have content specific								
7	help links.								
	Application should allow	Υ	Υ	Υ	Υ	Υ	Technical	Data	Important
	instructor and TA to upload a							Warehousing	
	roster of student users in .csv								
8	format as well as upload								
٥	assessments. Application should have the	Υ	Υ	Υ	Υ	Υ	Technical	Data	Important
	capability to Track each user's	1	1	1	ı	'	recillical	Warehousing	important
	access to the application							Waterloasing	
	including date time stamp, and								
9	ip address.								
-	Application should allow Tutor	Υ	Υ	Υ	Υ	Υ	Technical	Data	Important
	to view the roster of student				•			Warehousing	15 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	users in .csv format who								
	enrolled for the specific tutor as								
10	well as view assessment reports.								

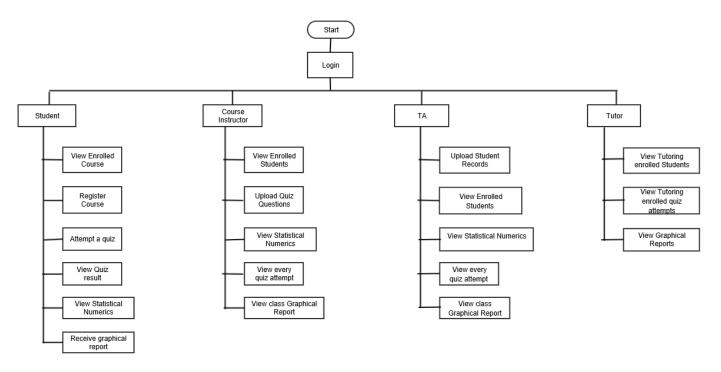
11	Application should allow Students to view the roster of courses as well as have the ability to take mutliple quizzes for each course the student has enrolled. The student should also be allowed to take multiple attempts for each quiz for a particular course.	Y	Y	Y	Y	Y	Technical	Data Warehousing	Important
12	Application should have file menu item in instructor and TA's page to enable upload of roster of student records along with enrolled course details from a .csv file.	Y	Y	Y	Y	Y	Functional	Management	Critical
13	Application should have the file menu items in instructor and TA's page to enable upload of questions to be used in quizzes.	Y	Υ	Υ	Y	Y	Functional	Management	Critical
14	Application should have the file menu item to download roster as well as general data of student records, quiz details including assessment records in .csv and XML format.	Y	Y	Y	Y	Y	Technical	Data Warehousing	Important
15	Application should have the option for students to view their assessment data and analysis specifics.	Y	Y	Y	Y	Y	Functional	Management	Critical
16	Application should have the capability to generate reports for displaying the score of assigned work, results of numeric and statistical analysis for the entire class.	Y	Y	Y	Y	Y	Technical	Data Warehousing	Important
17	Application should have the capability to allow TA and instructor to generate reports for displaying data of sorted data by specific column.	Y	Y	Y	Y	Y	Technical	Data Warehousing	Important
18	Application should have the capability that permits the TA, tutor and instructor to view all available uploaded assesment report of each student and each student should be able to view the maximum score generated amongst various attempts of quizzes pertaining to each course.	Y	Y	Y	Y	Y	Functional	Management	Critical

19	Application should have the capability to produce numerical analysis of assessment results including mean,median,mode,5-number summary variation,range,IQR,variance and standard deviation implemented using Apache Commons math library.	Y	Y	Y	Y	Υ	Technical	Data Warehousing	Important
20	Application should have the capability that permits the TA and instructor to perform graphical analysis consisting of histograms, barcharts and piechart of distribution of	Y	Y	Y	Y	Y	Technical	Data Warehousing	Important
20	scores.								

UML Class Diagram:



Navigation Flow Diagram:



Database Tables

The following tables have currently been created:

f15g116_rosterstats					
uin	integer	Not null, primary key			
netid	char(7)	not null			
lastname	varchar(50)				
firstname	varchar(50)				
role	varchar(20)				

f15g116_rosteradbms					
uin	integer	Not null, primary key			
netid	char(7)	not null			
lastname	varchar(50)				
firstname	varchar(50)				
role	varchar(20)				

f15g116_rosteractg					
uin	integer	Not null, primary key			
netid	char(7)	not null			
lastname	varchar(50)				
firstname	varchar(50)				
role	varchar(20)				

f15g116_course					
courseid	char(6)	not null			
		unique			
coursename	varchar(20)				
section	varchar(50)				

f15g116_enroll					
uin	integer	not null			
coursename	varchar(20)	not null			
primary key(uii	n,coursename)				

f15g116_assessment				
assessmentid	char	not null		
questionid	integer	not null		
questiontype	varchar(20)			

questionstring	TEXT	
answer	TEXT	
answererror	double precision	
coursename	Varchar(20)	
primary key(questionid,a		

f15g116_user					
userName	varchar(50)				
password	varchar(50)				
lastname	varchar(50)				
firstname	varchar(50)				
role	varchar(20)				
uin	integer	not null			
		unique			
		primary key			

f15g1		
uin	integer	not null
assessmentid	char(2)	not null
coursename	varchar(20)	
score	INTEGER	
primary key(uin,assessment		

USER GUIDES

STUDENT USER GUIDE

- 1. Click on Take Quiz link to go to that page
- a. Click on the select course button to get your course details
- b. Select the course from the dropdown
- c. Click on the select assessment button to get the assessments
- d. Next, select the assessment/quiz which you want to take from the dropdown
- e. Start the assessment by clicking on the Start quiz button
 - Check Your Browser Options before the Test to ensure that it is not set to disconnect after several minutes of inactivity.
 - Don't close the window of the test for any reason.
 - If something goes wrong, send an e-mail to your professor immediately, documenting the exact problem and asking how you should proceed.
 - Review All of Your Answers Before Submitting the Quiz. Make sure you have not accidentally changed your response to a question or made a typographic mistake.
 - Once you finish the test, click on submit button at the bottom
 - You will be redirected to you home page
- 2. To view scores, click on view score button. Click on Print Score to view scores for all your courses.
- 3. To logout, click on logout button

INSTRUCTOR/TA USER GUIDE

1. Click on the Roster button to upload or view Roster

- a. Click on the select course button to get the course list
- b. Select the course from the dropdown
- c. Click on the browse button to select a file from the computer
- d. Give a file label name in the text box for roster
- e. Click on submit button to upload the roster
- f. You can view the uploaded file data by clicking on the print roster
- g. To reset the populated data from the page, click on the reset button

2. Click on the Assessment button to upload or view Assessment

- a. Click on the select course button to get the course list
- b. Select the course from the dropdown
- c. Click on the browse button to select a file from the computer
- d. Give a file label name in the text box for assessment
- e. Click on submit button to upload the assessment
- f. You can view the uploaded file data by clicking on the print roster
- g. To reset the populated data from the page, click on the reset button

3. Click on the Courses button to view the enrolled students in a course

- a. Click on the select course button to get the course list
- b. Select the course from the dropdown
- c. Click on enrolled students button to get a list of students enrolled for the course
- d. To reset the populated data from the page, click on the reset button

4. Click on the View Student Results button to view the Student Assessment results

- a. Click on the select course button to get the course list
- b. Select the course from the dropdown
- c. Click on Print result button to get the assessment grades of the students
- d. To reset the populated data from the page, click on the reset button

5. Click on the View as a Student button to view student page for testing purposes

6. To logout, click on logout button

ADMIN USER GUIDE

- 1. After logging into the application, login into the database with the f15g116 group credentials.
- 2. Now, you are on the database page.
- 3. You can list tables, list columns, run gueries, create and drop tables.