Interactive Quiz Application (Team 12)

Team Members:

Class ID	Name
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38	Neelima-Putta,Divya-Sai-Lakshmi
9	Chinthakindhi,Nikhila
62	Arun

Introduction:

Interactive Quiz application is a dynamic application which facilitates users to take quizzes online through web portal. Details of the tests taken with their results are accessible to the user at any time.

Users can take tests, retake tests and view written tests results in this application.

Objectives:

- Objective is to create user friendly Interactive quiz application with register page, login page and home page using ionic framework.
- Home page would contain tabs for user profile and to take online quiz.
- User would receive an instant score as soon as he/she is done with the quiz.

Features:

- User can select topic for quiz from the various topics displayed in the home page.
- User can listen to questions in their quizzes while taking test.
- Scribble pad is available for users for scratch work. It is saved for user's future use to analyse wrong answers if any.
- Application is built on ionic framework.

Detailed design of features:

Wire Frames:

Wire frame design for Start/Index page of the Interactive quiz application is as follows:

Password Login Or Create account

LOGIN

Wire frame design for sign up page of the Interactive quiz application is as follows:

	SIGNUP	
User Name		
Email ID		
Phone No		
Password		
Confirm PWD		
	Sign Up	•

Wire frame design for profile page of the Interactive quiz application is as follows:

	PROFILE	
UserName		
Email ID		
Phone Number		
	Number of Exams Taken:	
	Link of that exam Subject	

Wire frame design for quiz selection page of the Interactive quiz application is as follows:

	SELECT SUBJECT	
C Language		
Java.		
Angular JS		
MongoDB		
	Next	

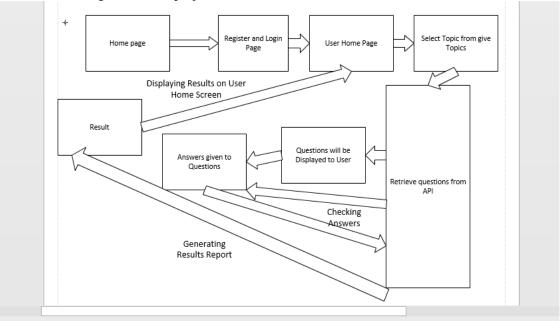
Wire frame design for quiz questions page of the Interactive quiz application is as follows:

	QUIZ
	Question?
Opti	ion A
Opti	ion B
Opti	ion C
Opti	ion D
	Next Submit

	INTE	RACTIVE	QUIZ AP	PLICAT	ION
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	Quiz	<u> </u>			
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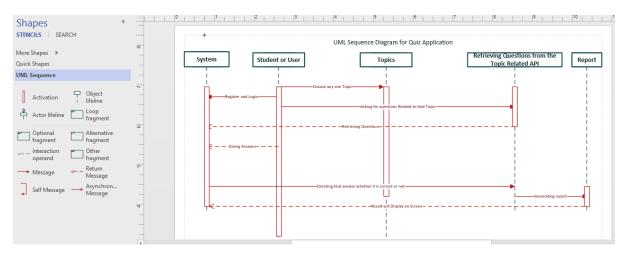
Architectural diagram:

Architectural diagram for the project is as follows:



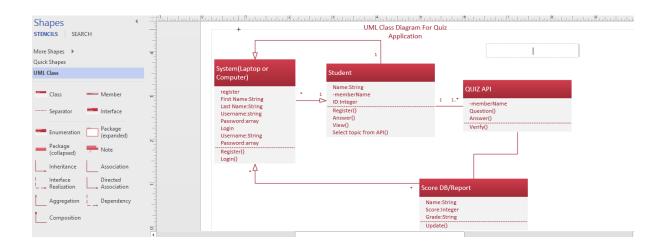
Sequence diagram:

Sequence diagram for the project is as follows:



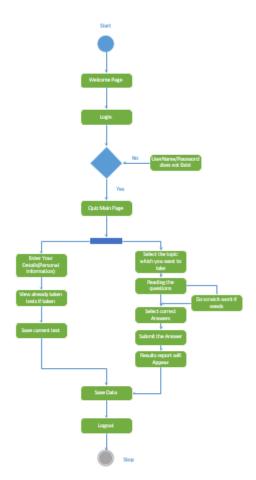
Class diagram:

Class diagram for the project is as follows:



• Activity diagram:

Activity diagram for the project is as follows:



User story:

- Students/users can take online quizzes through this Interactive quiz application.
- They can select any domain from the listed domains in the home page to take test.
- Users can listen to the questions/options by clicking them.
- Personal information is displayed in profile page.
- Test score is provided immediately after the quiz is completed.
- Users can assess their mistakes by the answers shown after the test.

Use case:

- User must register himself/herself in the application.
- Upon successful registration user can login into the app.
- After logging in user has option to select domain among the domains listed.
- Upon selecting domain, user can take tests and view scores after completing the tests.

Service description:

- Interactive quiz application provides quizzes to the users.
- Users can take tests and view results after the test.
- As results are provided instantly users can assess their mistakes.
- Users can listen to questions in the quizzes.
- Scribbling pad is provided for scratch work.

Testing:

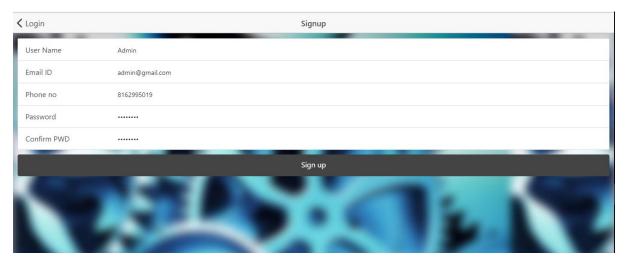
The following are the unit test cases and their results:

S.No	Test case	Description/Process	Expected result	Actual result	Pass/Fail
		User has to register in	Registration has to be	Registration is	
1	Registration	registration page	successful	successful	Pass
				Error has been shown	
			Error has to be shown	stating invalid email	
2	Registration	Invalid email ID	stating invalid email ID	ID	Pass
				Error has been shown	
			Error has to be shown	when password	
		Password criteria must be	when password length	length criteria is not	
3	Registration	met	criteria is not met	met	Pass
		User has to login with	Login has to be		
4	Log in	valid credentials	successful	Login successful	Pass
		User must select a topic			
5	Home	for taking quiz	Quiz must start	Quiz has started	Pass
			Error has to be shown	Error has been shown	
			if user tries to go to	when user tried to go	
		User must answer a	next page without	to next page without	
		question to go to next	answering current	answering current	
6	Quiz	question	page question.	page question.	Pass
			After submission of the	After submission of	
	Quiz	User must submit quiz	quiz test score has to	the quiz test score has	
7	submission	upon completion	be shown	been shown	Pass

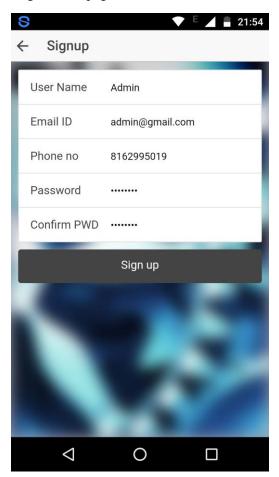
Deployment:

Deployed code screenshots are attached below:

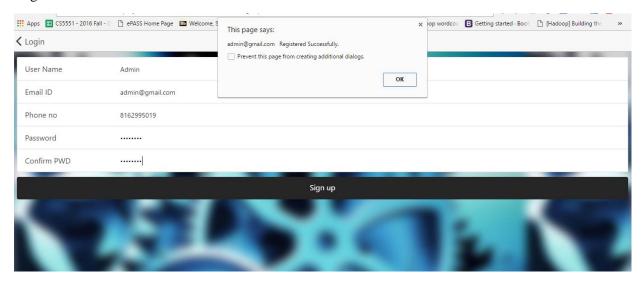
Registration page on web:



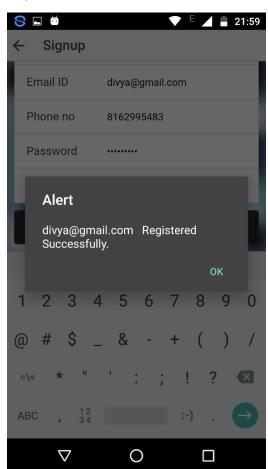
Registration page on mobile:



Registration successful on web:



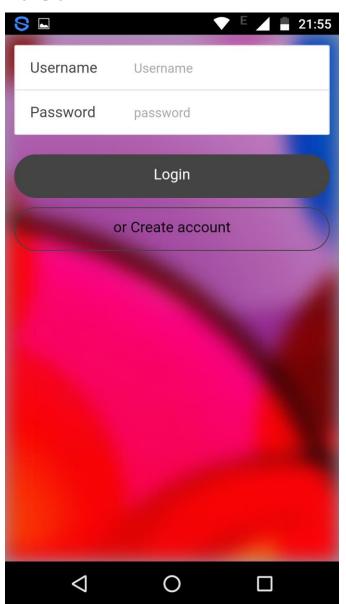
Registration successful on mobile:



Login page on web:



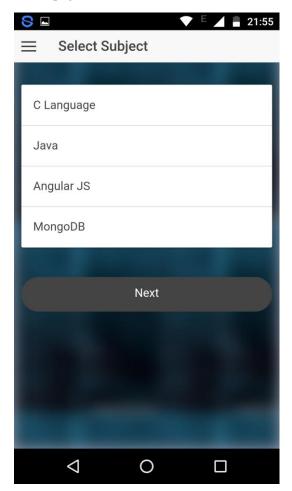
Login page on mobile:



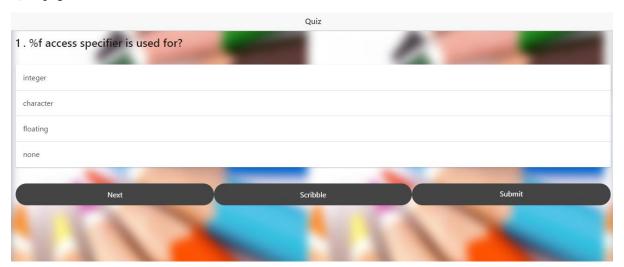
Home page on web:



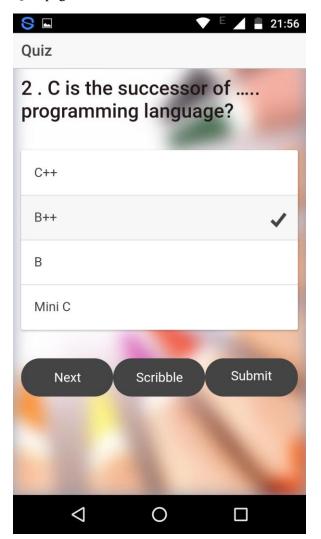
Home page on mobile:



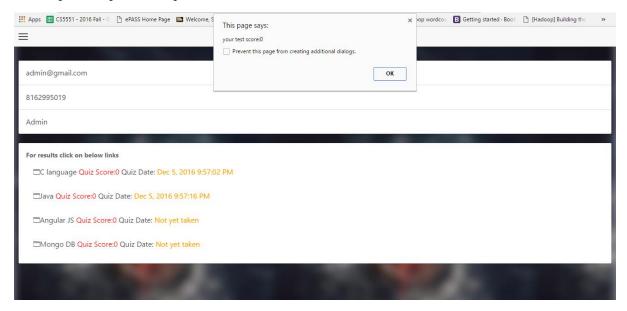
Quiz page on web:



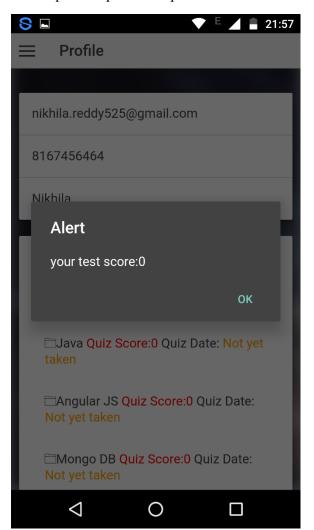
Quiz page on mobile:



Score upon completion of quiz on web:



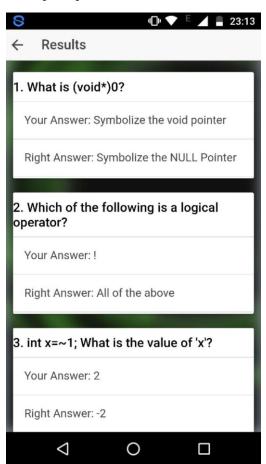
Score upon completion of quiz on mobile:



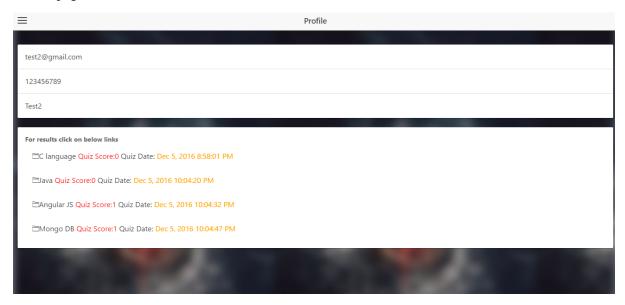
Attepted questions and answers after the test is done on web:



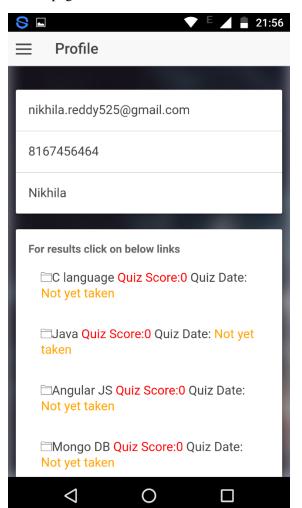
Attempted questions and answers after the test is done on mobile:



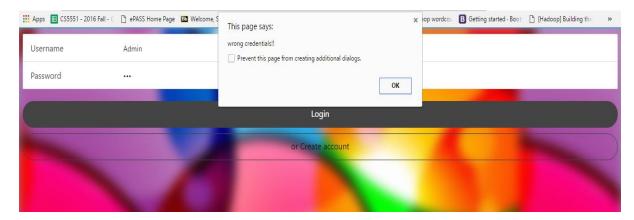
Profile page on web:



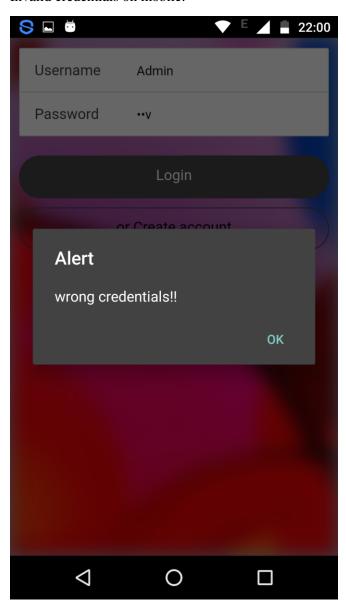
Profile page on mobile:



Invalid credentials on web:



Invalid credentials on mobile:

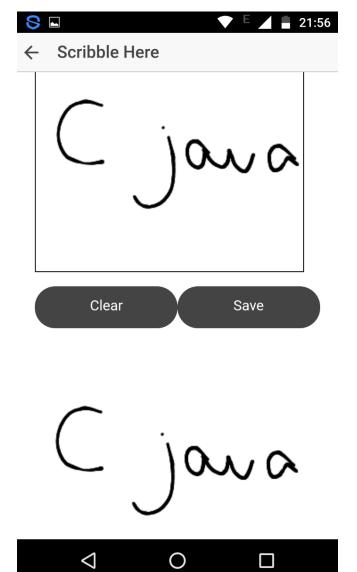


Scribbling pad on web:



comers

Scribbling pad on mobile:



Project Management:

Work completed:

			Time	
S.No	Description	Responsibility	taken	Contributions
	Saving user's quiz data once user submits			
	the test,			
1	Tabs arrangement	Nikhila	10	100%
	Collection of questions to make quiz			
	repository,			
2	Displaying latest test details	Divya	10	100%
	Display previous quiz taken,			
3	Display result upon completion of the quiz	SaiTeja	10	100%
	Quiz repository,			
4	Background images	Arun	0	100%
		Nikhila, Divya,		
5	Documentation	SaiTeja	5	100%

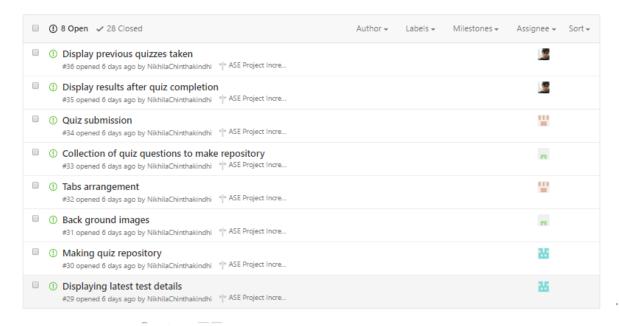
Burn down chart:

GitHub's burn down chart of the project is as follows:



Issues:

GitHub's issues for the project are as follows:



Contributors graph:

Aug 28, 2016 - Dec 5, 2016

Sep 25

GitHub's contributors graph for the project is as follows:

Contributions to master, excluding merge commits

50
40
30
20





Contributions: Commits ▼



Oct 09

Source code link:

https://github.com/SaiTejaMakani/ASE-Project/tree/master/SourceCode/ASE%20Project%20Increment4/ASEproject

PPT link:

 $\underline{https://docs.google.com/presentation/d/1poOdZl33yAU6gTEe9iGmeX3ikI2nIgQiameKURHFDWE/e}\\ \underline{dit\#slide=id.p3}$

Youtube vedio link:

https://www.youtube.com/watch?v=PGmo4uR5Y-0&feature=youtu.be

Bibliography:

https://developer.mozilla.org/en-US/docs/Web/API/SpeechSynthesisUtterance

http://www.w3schools.com/angular/

http://www.w3schools.com/bootstrap/default.asp