SE Project Report On

Online Examination Management System

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in partial fulfilment for the award of the degree

Of

Bachelor of Technology

In

Information Technology

At

Department of Information Technology

National Institute of Technology Karnataka, Surathkal.

April 2019

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1. Introduction

This Web Application provides facility to conduct online examination worldwide - It saves time as it allows a number of students to give the exam at a time and displays the results as the test gets over, so no need to wait for the result. The purpose of the project is to provide online facilities to Institutes to conduct online exams and to Students to give online exams. Institutes can enter and edit the questions along with the students' list. Also, they can view the result. Students can log in and give their respective exams and view their score then and there. Others can view sample papers to get look and feel of the online examination system. It is automatically generated by the server. - The administrator has a privilege to create, modify and delete the test papers and its particular questions. - The user can register, login and give the test with his specific id, and can see the results as well.

This project aims to eliminate the inconsistencies experienced when giving internship/placement tests in NITK. The platform will ensure that the UX is the same for every single test, which will make it easier for users to attain their objectives. This also ensures that poorly functioning platforms do not hamper the recruitment process.

2. Software Requirement Specifications

Revision History

Name	Date	Reason For Changes	Version
Version 1	25/01/2019	Adding content about system features	1
Version 2	15/02/2019	Adding content about Non-functional requirements	2
Version 3	28/02/2019	Adding use case diagram, user classes, references and communication interface	3
Version 4	20/03/2019	Adding design analysis diagrams (UML diagrams)	4
Version 5	10/04/2019	User interface design	5

1. Introduction

1.1 Purpose

The purpose of this document is to build a college online examination management system. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and how the system will react to external stimuli.

1.2 Document Conventions

To make the document more effective and readable Times New Roman font style was used and font size 18 for the title, 14 for headings and 12 for the content. The headings and title are in bold and have been indexed.When writing the SRS document for Online Examination Management System the following terminologies are used:

- Web server (WS)- The localhost server used is XAMPP server which uses phpMyAdmin and SQL
- DB - Database For our project we have used MySQL

1.3 Intended Audience

This document has been prepare for the developers and the users of the web application. It has been implemented as a course project of the Software Engineering Course.

1.4 Overall Description

In Online examination system institute can register to conduct an online test and view the records later. Students can give the test and their respective records, which include their marks for each test given by them, will be maintained separately. No student can take a particular exam more than once.

1.5 Benefits

This website reduces manual work, maintaining accuracy, increasing efficiency and saving time. Also, institutes need not go to develop new software each time, instead they just register and conduct a test. For students, it saves the time of going too far away centers for the exams and the quizzes and also they can view their results then and there.

1.6 Roles

Admin: The admin has root access to all the information and controls everything about the software.

Examiner: Has access to the test questions and some limited information which is for the purpose of conducting the test only.

User: Has access to the questions only. Gives the test.

2. General Description

2.1 Description of Project

This Web Application provides facility to conduct online examination worldwide. It saves time as it allows number of students to give the exam at a time and displays the results as the test gets over, so no need to wait for the result. It is automatically generated by the server.

Administrator has a privilege to create, modify and delete the test papers and its particular questions. User can register, login and give the test with his specific id, and can see the results as well.

2.2 Product Perspective

This Web Application provides facility to conduct online examination worldwide

- It saves time as it allows number of students to give the exam at a time and displays the results as the test gets over, so no need to wait for the result. wait for the result. It is automatically generated by the server.

- Administrator has a privilege to create, modify and delete the test papers and its particular questions.

- User can register, login and give the test with his specific id, and can see the results as well.

2.3 Product Functions

The website will allow access only to authorised users with specific roles (Administrator-maintains the website, Institutes-Register to conduct the exams, Students-Give the exams online) A summary of the major functions that the website will perform:

a. Provide facility to institutes to register to conduct an online test.

b. Institutes can enter the number of questions, +ve, -ve marks, questions and answers and the list of eligible students.

c. Students can login and give the tests

2.4 User Characteristics:

a. Educational level: Users should be comfortable with the English language.

b. Experience: Users should have prior information regarding the online examinations.

c. Skills: Users should have basic knowledge and should be comfortable using general purpose applications on computers.

2.5 Operating Environment

1. This product will operate on any operating system and version
2. This will require setting up Xampp server in the development environment
3. Software requirements:- Xampp server, phpMyAdmin and MySQL

4. SQLite DB
5. Javascript

2.6 Assumptions

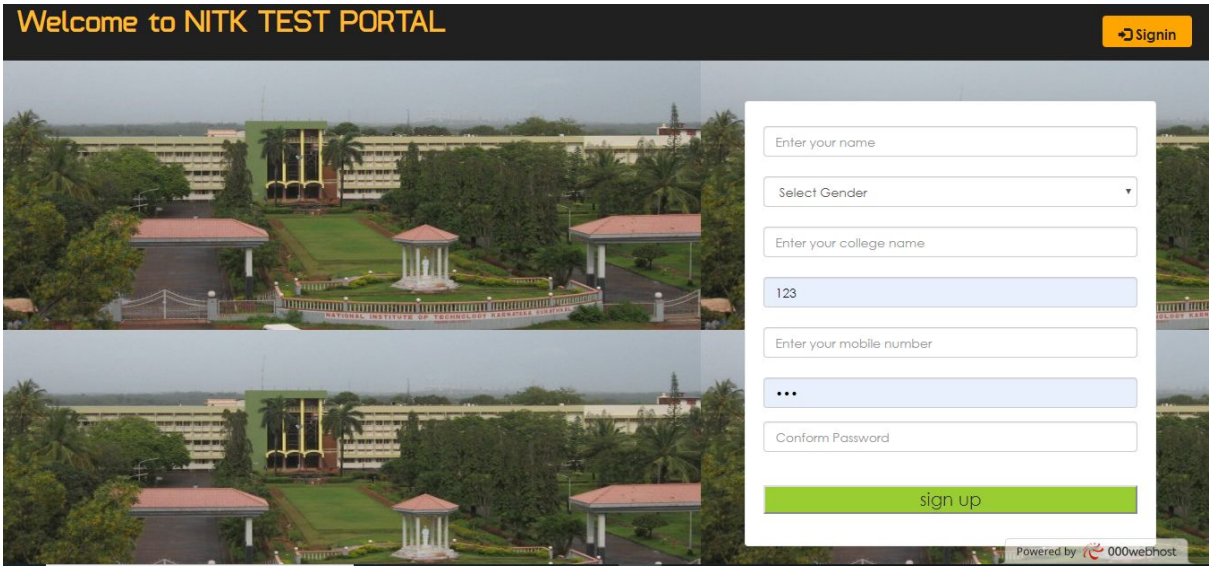
The examinations are all objective. Students can only one option at a time. The web application will be run locally and attempts will be made to host the web application on xampp server.

3. Specific Requirements

3.1 External Interface Requirements

3.1.1 User Interfaces

The application will have a user friendly and menu based interface.



3.1.2 Hardware Requirements

1. The application demands that all the PCs must be present in the internet
2. Pc should be sufficiently fast with adequate memory at least 2 GB RAM and 2 GB hard –disk space is required to run this application.
3. Screen resolution of at least 800*600 required to properly view the screen.
4. It should be supporting the printers

3.1.3 Software Requirements

1. Any Window Operating System.
2. The PHP must be installed. For the database handling MYSQL must be installed.
3. The final application must be packaged in a set up program, so that the product can be easily installed on the clients-machine.

3.1.4 Communications Interfaces

- It requires connectivity to the Internet. The application can be accessed using a web browser. It also includes an email option. We will be using HTTP as the communication standard.
- The system should support registration for maximum number of Students.

4 System Features

4.1 Functional Requirements

The Online Examination System is developed for handling the activities for various users such as student, staff, exam staff. Every teacher should have laptop with wireless internet connection.

In order to create the authentication module:-

REQ 1:- A valid form needs to be present. For eg:- the password entered needs to match with the rules, eg - password needs to be of min 6 characters, 1 number needs to be present, a special character needs to be present etc

REQ 2:- The submit button should trigger the validation module.

REQ 3:- Only in case of successful validation, the page should redirect to dashboard.

4.2 Stimulus/Response Sequences

1. Users will need to enter data in text boxes and click on the register button to create an account.
2. They will then need to go to the login page and re-enter their credentials.
3. This will take the user to their dashboard.

4.3 Technical Issues

This product will work on client-server architecture. It will require an internet connection and which will be able to run PHP application. The product should be support

some commonly used browsers such as Internet Explorer, Mozilla Firefox. External interfaces include keyboard and mouse, enabling navigations across the screens. Also, in addition we have used the speech-to-text conversion using the annyang API in javascript which enables the some impaired users to also use the application.

5. Other Nonfunctional Requirements

In this section, last group of the requirements which is nonfunctional requirements will be explained in detail. Nonfunctional requirements include performance requirements, security requirements and portability requirements.

1) Performance Requirements

The system must be interactive and the delays involved must be less. So in every action-response of the system, there are no immediate delays. In case of opening windows forms, of popping error messages and saving the settings or sessions there is delay much below 2 seconds, In case of opening DBs, sorting questions and evaluation there are no delays and the operation is performed in less than 2 seconds for opening, sorting, computing, posting. Also when connecting to the WS the delay is based editing on the distance of the 2 systems and the configuration between them so there is high probability that there will be or not a successful connection in less than 20 seconds for sake of good communication.

Performance requirement by the user side is, the web application must be developed as a lightweight app so that it can work on almost any platform even with slower internet connections.

1.1 Safety Requirements

The safety requirements include managing and keeping the user's data secure as in case of any failure, the user data must not be lost nor should be vulnerable to attack by any malicious source. Information transmission should be securely transmitted to server without any changes in information.

1.2 Security Requirements

Since this software will be hosted on xampp server, all the user data will be kept on the xampp server and the mySQL. Product should be able to protect privacy of user data. Workspace of the user should only be accessed through user own credentials and any other user should not be able to access any other user's private data.

The user will be restricted in terms of user rights and should be restricted so as to not harm the system by the programs they run or by the commands they run on the terminal.

Since all the data will be transferred on the web, the system should also use an encryption and decryption mechanism so that only the intended user can decode and work on the data.

1.3 Software Quality Attributes

The quality of the system is maintained in a way that is user friendly to all users. The software quality attributes assumed include:

1.3.1 Availability

If the internet service gets disrupted while sending information to the server, the information can be send again for verification.

1.3.2 Usability

As the system is easy to handle and navigates in the most expected way with no delays. In that case the system program reacts accordingly and transverses quickly between its states.

1.3.3 Reliability

The application should be highly reliable and it should generate all the updated information in correct order.

1.3.4 Security

Application will allow only valid users to access the system. Access to any will application resource depend upon user's designation. There are two types of users namely Administrator and Student. Security is based upon the individual user ID and Password.

1.3.5 Maintainability

The installation and operation manual of examination management system will be provided to user.

1.3.6 Portability

The application should be portable on any windows based system

3. Design

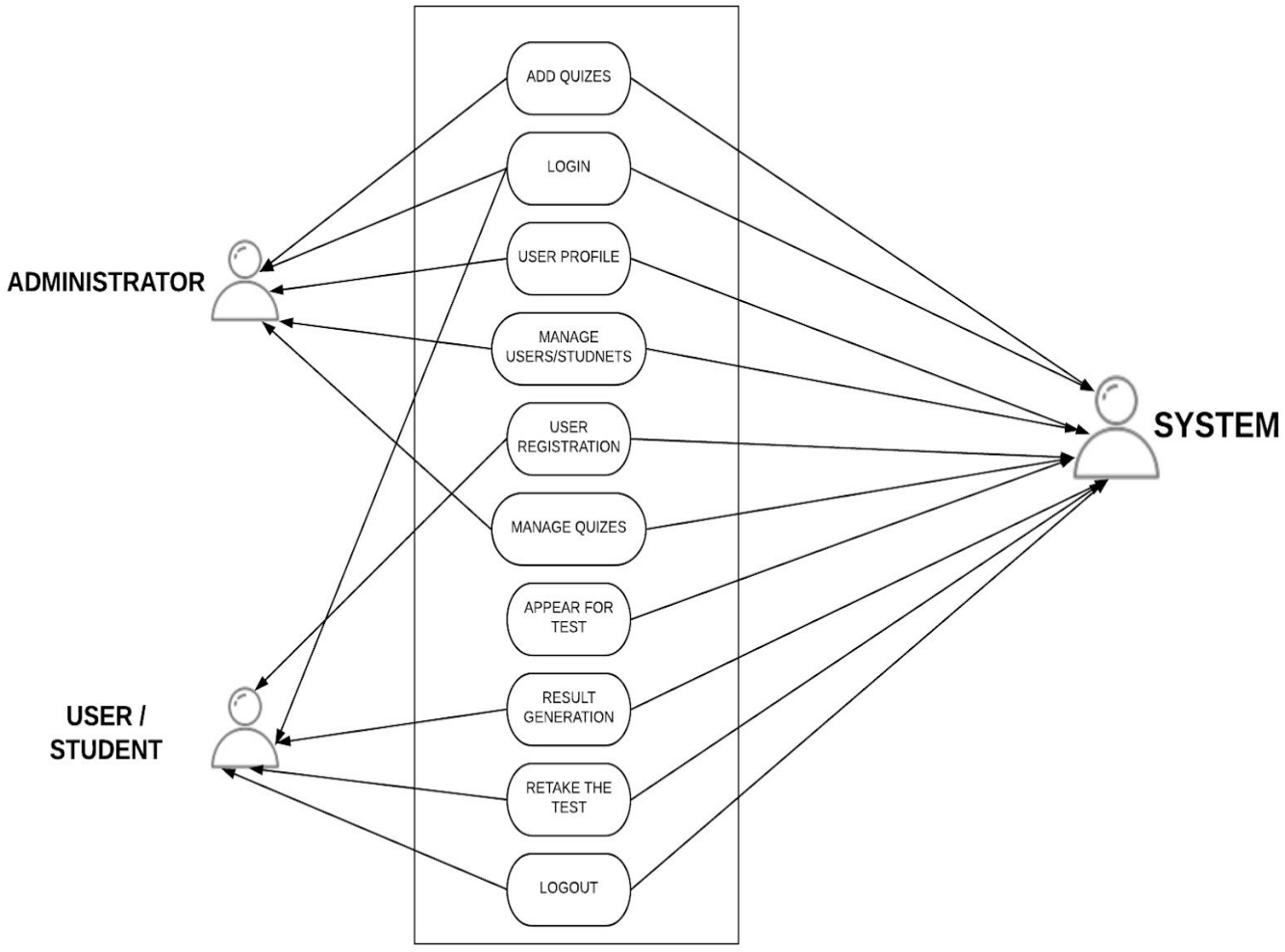
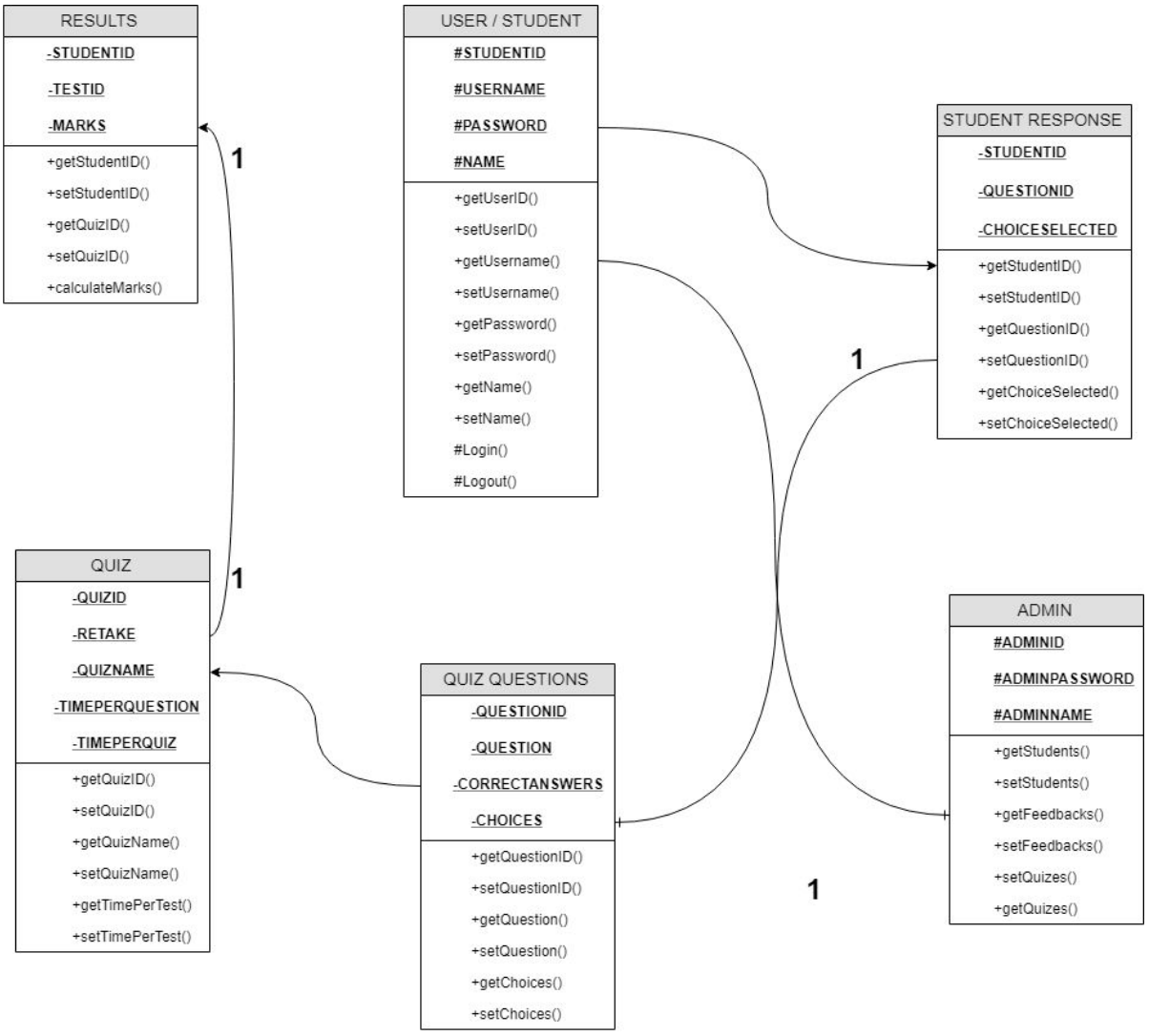


Fig 1: Use Case diagram for student registration and authentication



Sequence Diagram for User Login

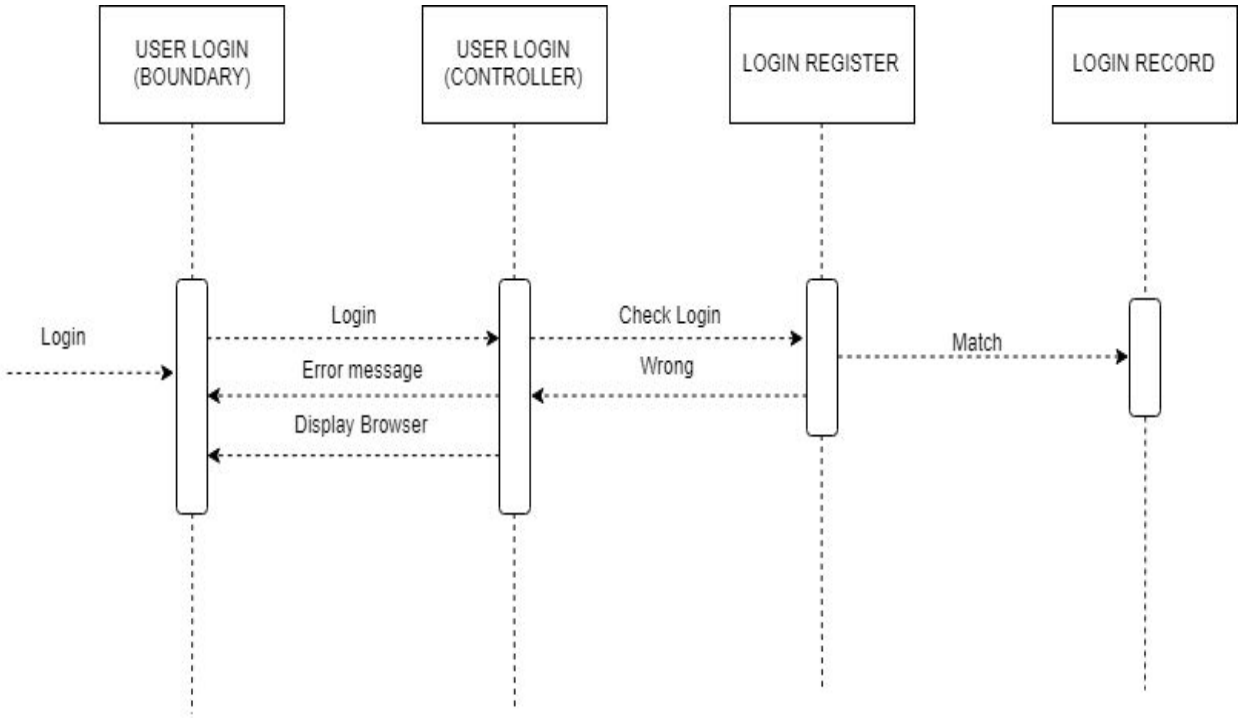


Fig 2: Sequence diagram for Registration and Login

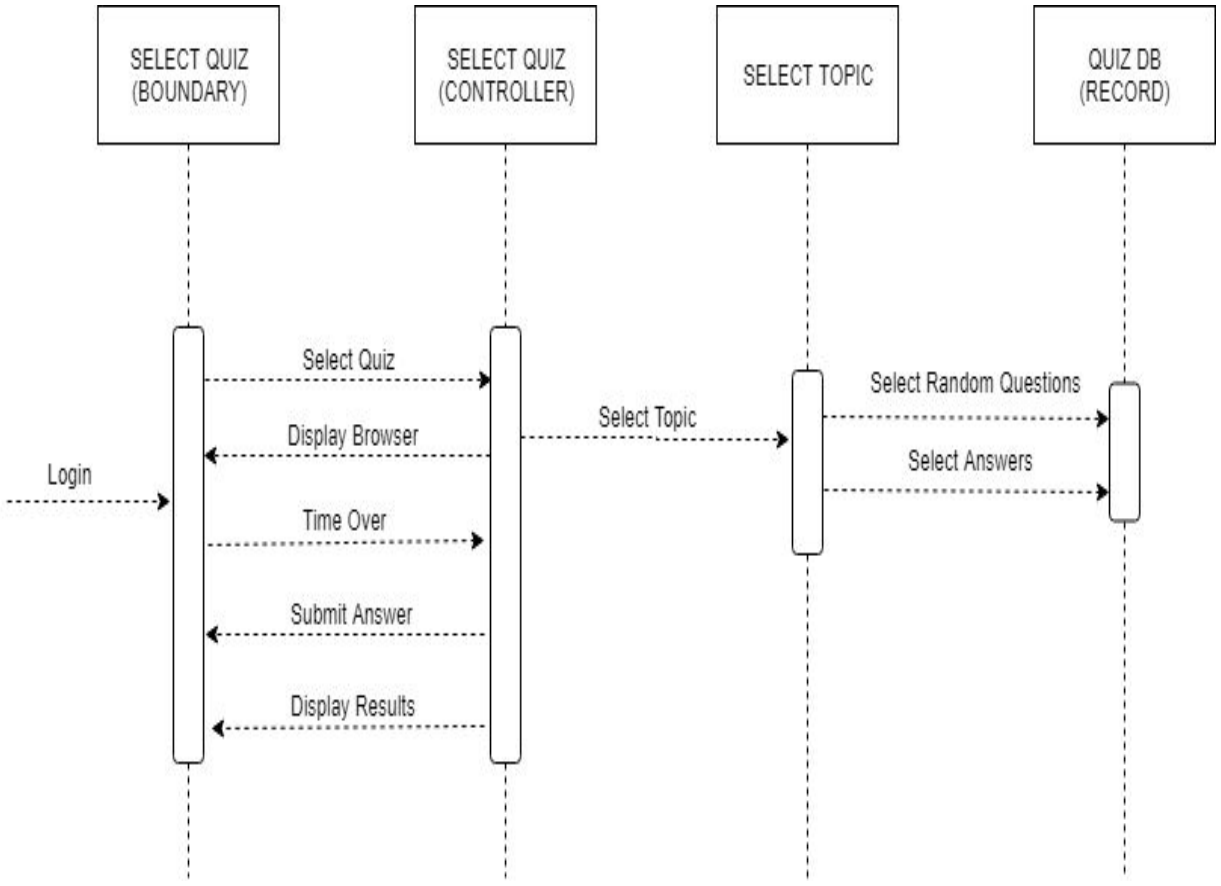
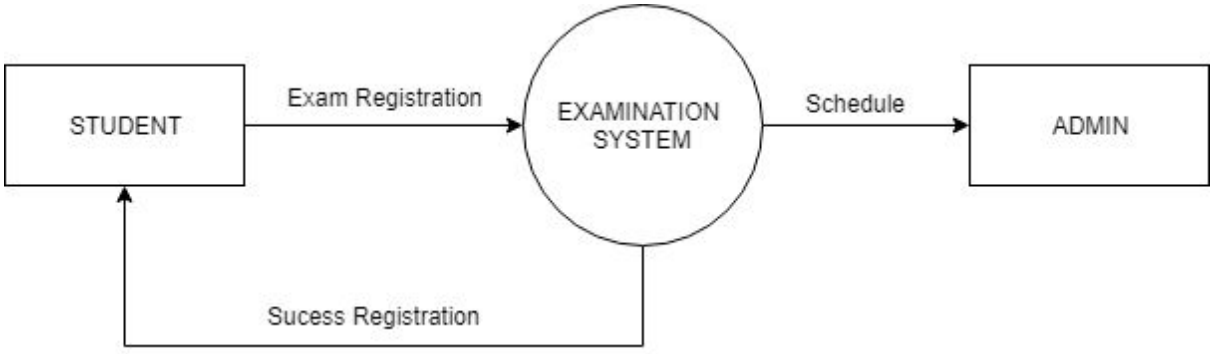


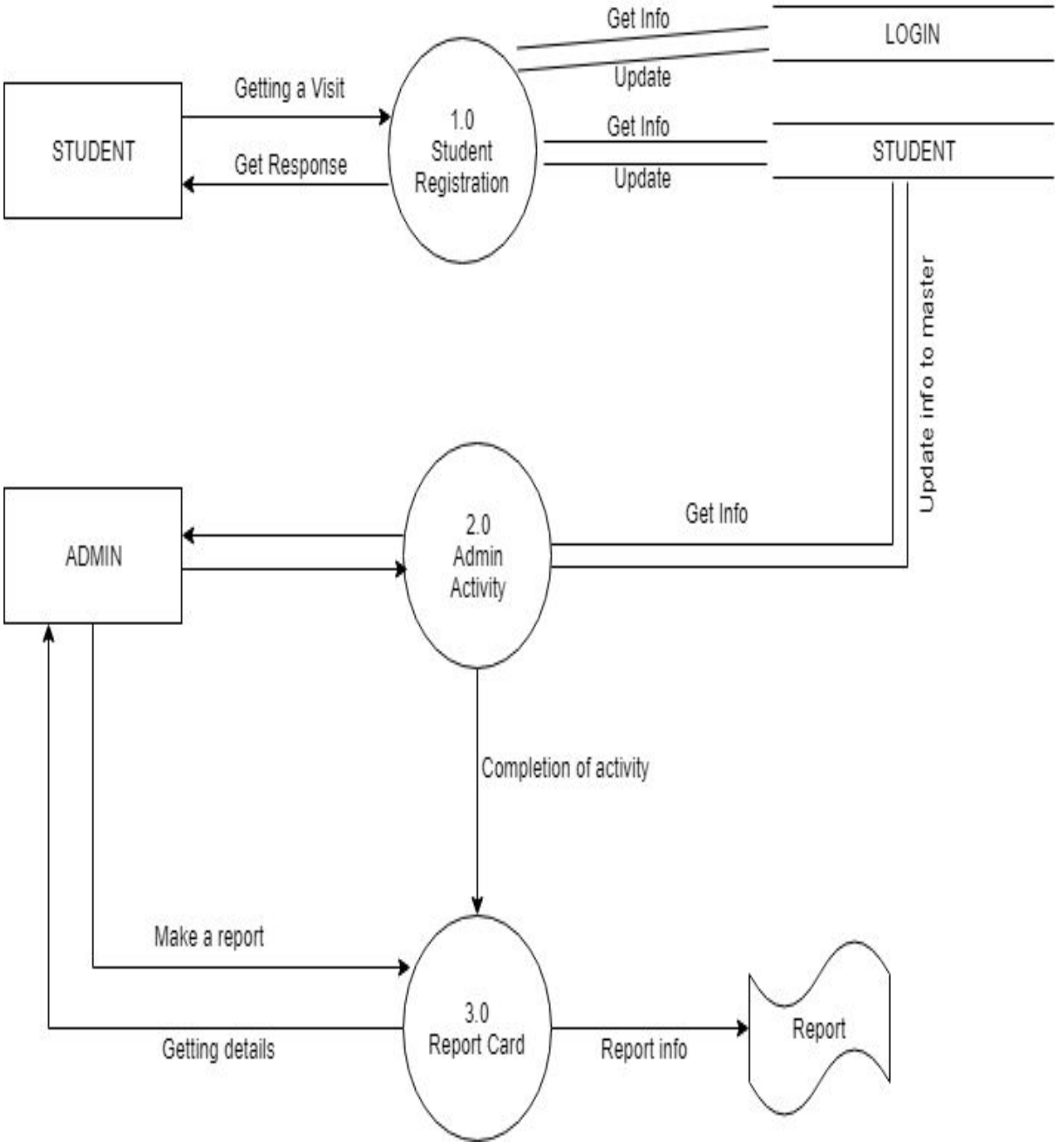
Fig 3: Sequence diagram for giving online quizzes

Data Flow Diagrams (DFD)

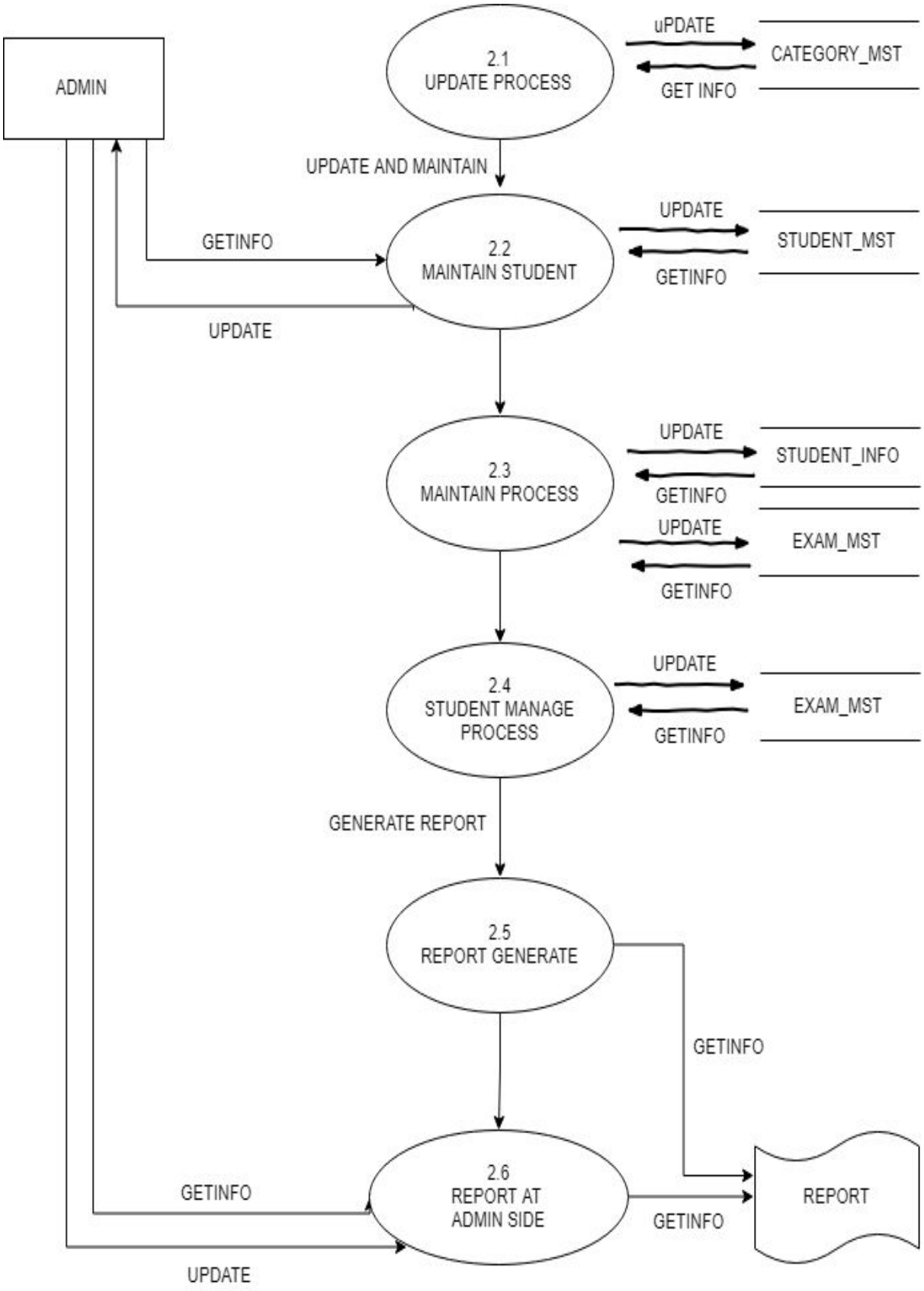
Level 0



Level 1


Get Info
LOGIN
Update
Getting a Visit
STUDENT
1.0
Student
Registration
Get Response
Get Info
STUDENT
Update
Update info to master
ADMIN
2.0
Admin
Activity
Get Info
Completion of activity
Make a report
3.0
Report Card
Report
Getting details
Report info

LEVEL 2


ADMIN
2.1
UPDATE PROCESS
uPDATE
CATEGORY_MST
GET INFO
UPDATE AND MAINTAIN
GETINFO
2.2
MAINTAIN STUDENT
UPDATE
STUDENT_MST
GETINFO
UPDATE
2.3
MAINTAIN PROCESS
UPDATE
STUDENT_INFO
GETINFO
UPDATE
EXAM_MST
GETINFO
2.4
STUDENT MANAGE
PROCESS
UPDATE
EXAM_MST
GETINFO
GENERATE REPORT
2.5
REPORT GENERATE
GETINFO
GETINFO
2.6
REPORT AT
ADMIN SIDE
REPORT
GETINFO
UPDATE

Activity-Diagrams

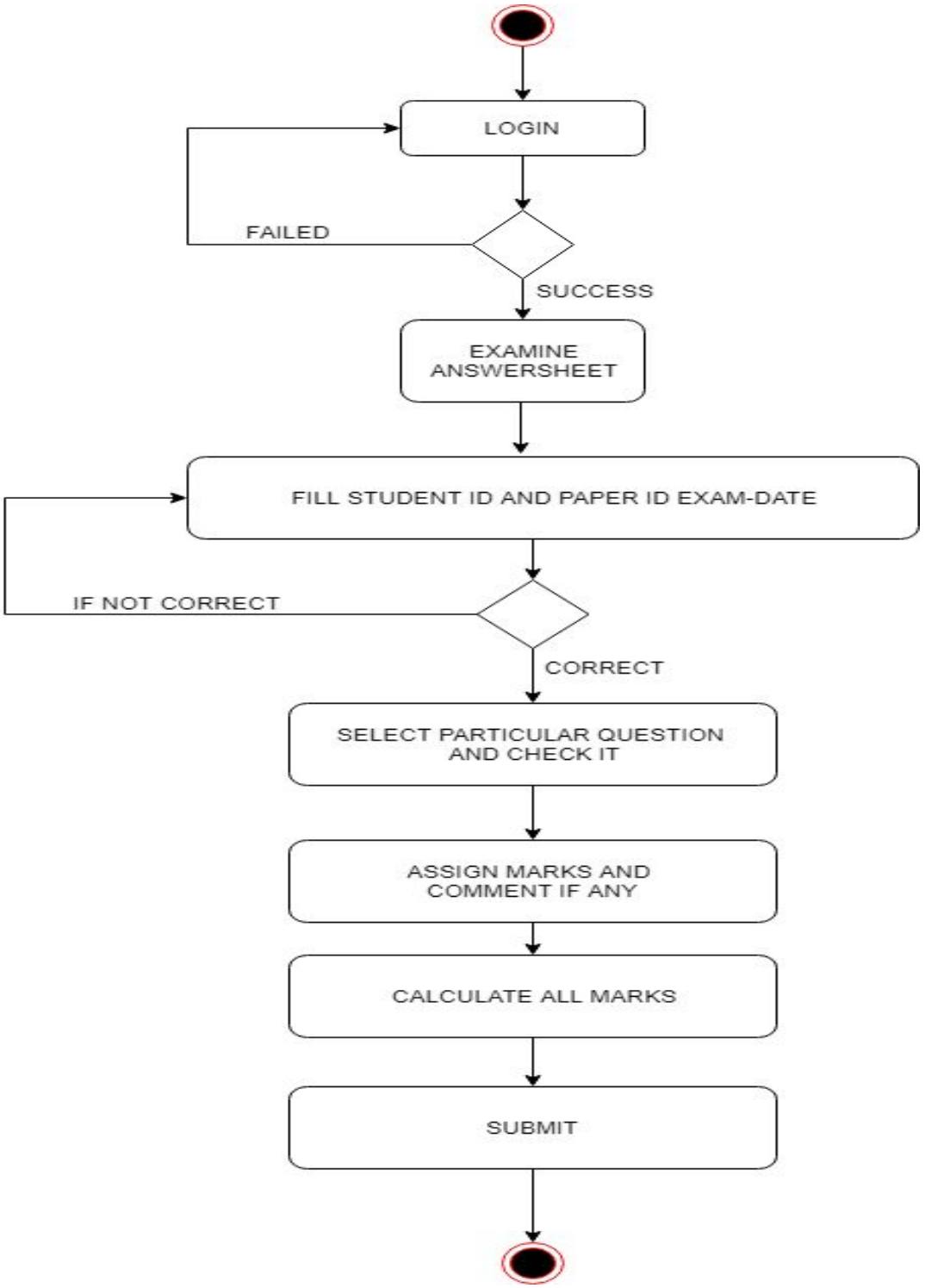
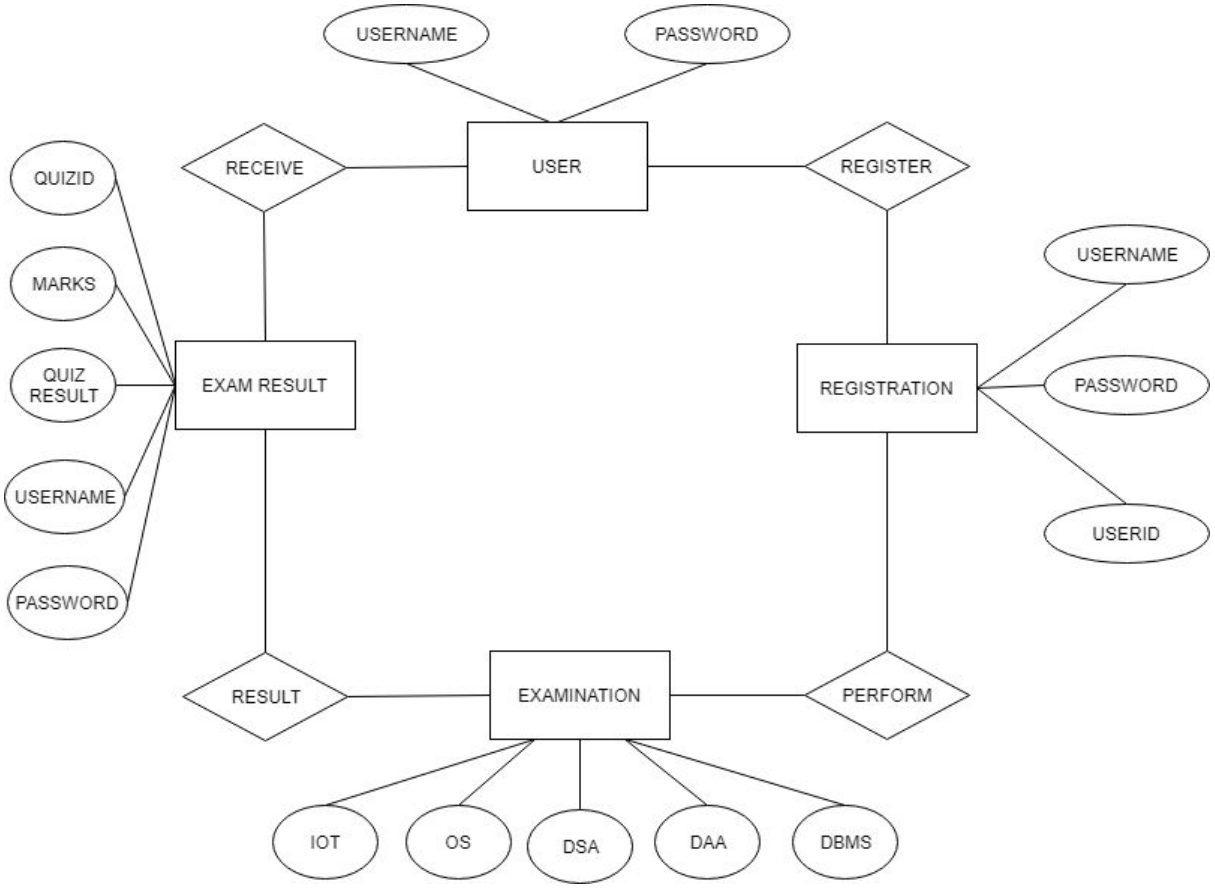


Fig 7: Activity diagram

State-Transition Diagrams (STD)



Manual test case design

Test Case Description	Test and check the login functionalit				
Tester's Name	Nimish Mangal	**Date Tested**	November 4, 2019	**Test Case Status**	Pass
Test Case ID	Test1				

S #	**Prerequisites:**	**S #**	**Test Data**
1	Access to Chrome Browser	1	Userid = 123 (for admin)
2	Access to xampp server	2	Pass = 123 (for admin)
3	Xampp server to work properly	3	Username for login(user) = qwer@gmail.com
4	Selenium IDE should work properly	4	Password for login(user) = qwertyuiop
5	MySQL should also work properly		

Step #	**Step Details**	**Expected Results**	**Actual Results**	**Pass /Not executed**
1	Navigate to localhost/Online	Site should open	As Expected	Pass
2	Enter Username & Password for admin	Credential must now be entered	As Expected	Pass
3	Click Submit	Admin must now be logged in	As Expected	Pass
4	Enter Username & Password for the user	Credential must now be entered	As Expected	Pass
5	Click Submit	User must now be logged in	As Expected	Pass
6	Enter Username & invalid Password for the user	Credential must now be entered	As Expected	Pass
7	Click Submit	Login must be failed	The password was incorrect	Fail
8	Enter invalid Username & Password for the user	Credential must now be entered	As Expected	Pass
7	Click Submit	Login must be failed	The username was incorrect	Fail

Test cases for the login of the user

Test Case Descript	Test all functionalities for user				
Tester's Name	Nimish Mangal	**Date Tested**	12/04/2019	**Test Case Status**	Pass
Test Case ID	Test 2				

S #	Prerequisites:
1	Access to Chrome Browser
2	Access to xampp server
3	Xampp server to work properly
4	Selenium IDE should work properly
5	MySQL should work properly

S #	Test Data
1	Userid = 123 (for admin)
2	Pass = 123 (for admin)
3	Username for login(user) = qwer@gmail.com
4	Password for login(user) = qwertyuiop

Step #	Step Details	Expected Results	Actual Results	Pass /Not executed
1	Give the first quiz on data structures	The user must be able to finish the quiz without any problem and after	As Expected	Pass
2	Give the second quiz	The user must be able to finish the quiz without any problem and after	As Expected	Pass
3	Give the third quiz	The user must be able to finish the quiz without any problem and after	As Expected	Pass
4	Give the fourth quiz	The user must be able to finish the quiz without any problem and after	As Expected	Pass
5	Give the fifth quiz	The user must be able to finish the quiz without any problem and after	As Expected	Pass
6	Give the sixth quiz	The user must be able to finish the quiz without any problem and after	As Expected	Pass
7	Give the seventh quiz	The user must be able to finish the quiz without any problem and after	As Expected	Pass
8	Give the eight quiz	The user must be able to finish the quiz without any problem and after	As Expected	Pass
9	Give the ninth quiz	The user must be able to finish the quiz without any problem and after	As Expected	Pass
10	After giving all the quizzes check the total	The user now must be able to see the total score cumulative of the	As Expected	Pass
11	Click on Ranking in the Ranking Tab	Must display all the users logged in and ranked in terms of their overall scores	As Expected	Pass
12	Click on History in the History Tab	Must display all the users logged in till now and with all their details	As Expected	Pass
13	Change the details on someone else in the	The user must not be able to change the records and details of any other	The user could not change	Fail
14	Change the details on someone else in the	The user must not be able to change the records and details of any other	The user could not change	Fail
15	Reanswer an already answered quiz	The user must be able to restart the quiz again from the start and then	As Expected	Pass
16	Signout	The user now must be able to signout from the application and return	As Expected	Pass

Test cases for a user giving the quizzes

Test Case Description	Test form filling to sign			
Tester's Name	Nimish Mangal	Date Tested	12/04/2019	Test Case Status Pass
Test Case ID	Test 3			

S #	Prerequisites:
1	Access to Chrome Browser
2	Access to xampp server
3	Xampp server to work properly
4	Selenium IDE should work properly
5	MySQL should work properly

S #	Test Data
1	Userid = 123 (for admin)
2	Pass = 123 (for admin)
3	Username for login(user) = qwer@gmail.com
4	Password for login(user) = qwertyuiop

Step #	Step Details	Expected Results	Actual Results	Pass /Not
1	Enter the details in the form	the user must be able to enter the details in the form	As Expected	Pass
2	Give the same name in another form	The user must be able to use the same name for filling another form	As Expected	Pass
3	Give the email id in the form	Email should be provided by the user	As Expected	Pass
4	Enter an Invalid email id	The email id must be accepted by the server	Since the email id is invalid it is not accepted,	Fail
5	Enter the mobile number	The given mobile number must be accepted by the server	As Expected	Pass
6	Enter an invalid number with less digits	The given mobile number must be accepted by the server	Since the number is invalid it is not accepted,	Fail
7	Enter the password	Password should be filled in by the user	As Expected	Pass
8	Enter a password with 3-4 characters	The password must be accepted by the server	Since the password is invalid it is not	Fail
9	Click Sign Up	Credentials must be accepted and user should see the quiz section	As Expected	Pass
10	Give "Feedback"	User should be able to give the feedback to the admin using the	As Expected	Pass
11	See "About Us"	When the user clicks on about us, direct to the nitk home page	As Expected	Pass
12	See "Developers"	When the user clicks on about us, he should see the developers	As Expected	Pass

Test cases for form filling

Test Case Descript	Test functionalities for admin				
Tester's Name	Nimish Mangal	**Date Tested**	13/04/2019	**Test Case Status**	Pass
Test Case ID	Test 4				

S #	**Prerequisites:**
1	Access to Chrome Browser
2	Access to xampp server
3	Xampp server to work properly
4	Selenium IDE should work properly
5	MySQL should work properly

S #	**Test Data**
1	Userid = 123 (for admin)
2	Pass = 123 (for admin)
3	Username for login(user) = qwer@gmail.com
4	Password for login(user) = qwertyuiop

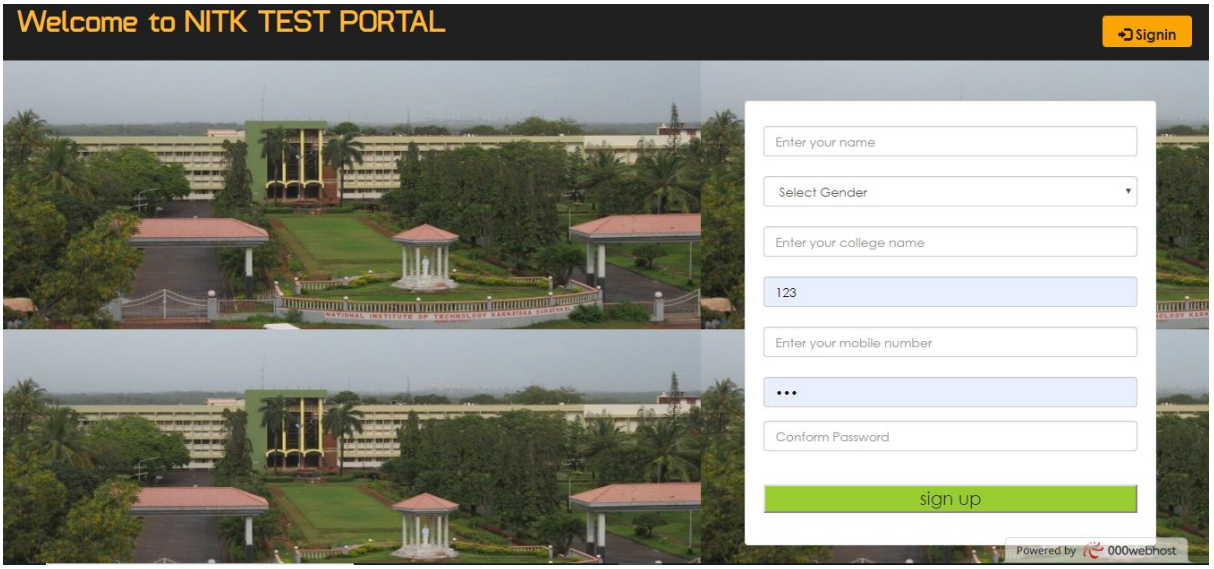
Step #	**Step Details**	**Expected Results**	**Actual Results**	**Pass /Not executed**
1	Click on the admin tab to log in	The admin login must pop up	As Expected	Pass
2	Enter Username & Password to login	Credential must now be entered and accepted	As Expected	Pass
3	Click Submit	Admin must now be logged in and should see the admin page	As Expected	Pass
4	Select any quiz and answer the quiz	The user must be able to finish the quiz without any problem and after that	As Expected	Pass
5	Give the second quiz	The user must be able to finish the quiz without any problem and after that	As Expected	Pass
6	Give the third quiz	The user must be able to finish the quiz without any problem and after that	As Expected	Pass
7	Give the fourth quiz	The user must be able to finish the quiz without any problem and after that	As Expected	Pass
8	Give the fifth quiz	The user must be able to finish the quiz without any problem and after that	As Expected	Pass
9	Give the sixth quiz	The user must be able to finish the quiz without any problem and after that	As Expected	Pass
10	Give the seventh quiz	The user must be able to finish the quiz without any problem and after that	As Expected	Pass
11	Give the eight quiz	The user must be able to finish the quiz without any problem and after that	As Expected	Pass
12	Give the ninth quiz	The user must be able to finish the quiz without any problem and after that	As Expected	Pass
13	Check the total score after all quizzes	The user now must be able to see the total score cumulative of the	As Expected	Pass
14	Click **Ranking** tab in the main dashboard	Must display all the users logged in and ranked in terms of their overall	As Expected	Pass
15	Click **Feedback** tab in the dashboard	Must display all the feedbacks	As Expected	Pass
16	Click **History** tab in the main dashboard	Must display all the users logged in till now and with all their details and	As Expected	Pass
17	Edit or delete any **feedback**	The admin must be able to delete any feedbacks he wants.	As Expected	Pass
18	Change details in the **History** tab	The admin must be able to change the records and details of any other	As Expected	Pass
19	Change the details in the **Ranking** tab	The admin must be able to change the records and details of any other	As Expected	pass
20	Reanswer an already answered quiz	The user must be able to restart the quiz again from the start and then	As Expected	Pass
21	Click on Quiz tab in the main dashboard	The drop down list containing add and remove quiz should drop down	As Expected	Pass
22	Select the add quiz option	Admin should have a form popped up to add a quiz	As Expected	Pass
23	Enter the quiz details	Admin should be able to enter the details of a quiz	As Expected	Pass
24	Enter number of questions	Admin can fill any number of questions in a quiz	As Expected	Pass
25	Enter the markings of every question	Admin can give any mark for correct and incorrect answer	As Expected	Pass
26	Enter for each question, the right option	Admin must fill 4-5 options out of which one should be correct	As Expected	Pass
27	Click on Add Quiz	The new quiz created must be added to the quizzes section	As Expected	Pass
28	Select the remove quiz option	All the quizzes should be resulted	As Expected	Pass
29	Click on the "remove" option	The selected quiz is removed.	As Expected	Pass
30	Signout	The user now must be able to signout from the application and return back	As Expected	Pass

Test cases functionalities of admin

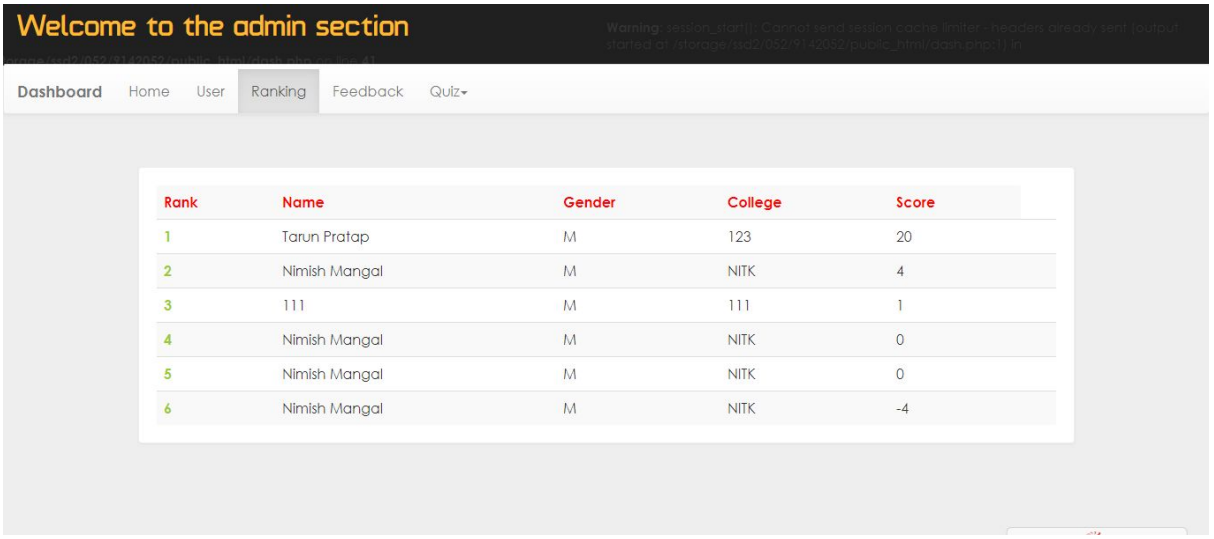
Tools Used

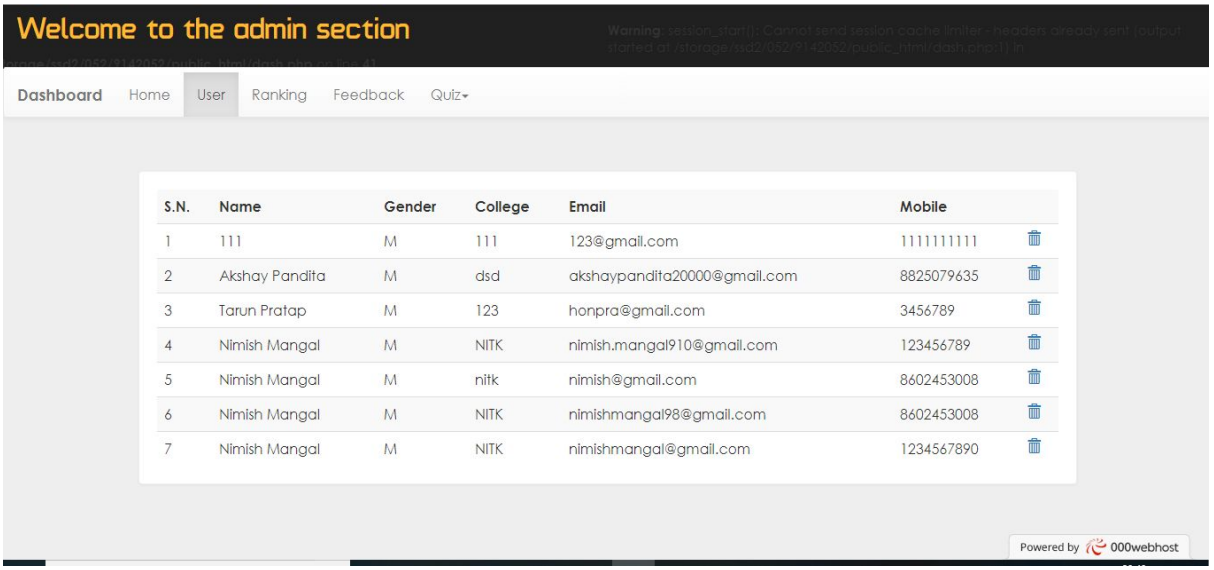
- Selenium
- PageSpeed insights
- webPageTest
- gMetrix

Screenshots of the application



S.N.	Topic	Total question	Marks	Time limit	
1	Data Structures	15	45	12 min	Start
2	Database Management Systems	10	30	5 min	Start
3	Current Affairs	20	80	10 min	Start
4	Linux :vi Editor	5	10	10 min	Start
5	Linux:startup	5	10	10 min	Start
6	Networking	2	4	5 min	Start
7	C++ Coding	2	4	5 min	Start
8	Php Coding	2	4	5 min	Start
9	Linux : File Managment	2	4	5 min	Start


Welcome to the admin section
Warning: session_start(): Cannot send session cache limiter - headers already sent (output started at /storage/ssd2/052/9142052/public_html/dash.php:1) in
Dashboard
Home
User
Ranking
Feedback
Quiz
Rank
Name
Gender
College
Score
1
Tarun Pratap
M
123
20
2
Nimish Mangal
M
NITK
4
3
111
M
111
1
4
Nimish Mangal
M
NITK
0
5
Nimish Mangal
M
NITK
0
6
Nimish Mangal
M
NITK
-4


Welcome to the admin section
Warning: session_start(): Cannot send session cache limiter - headers already sent (output started at /storage/ssd2/052/9142052/public_html/dash.php:1) in
Dashboard
Home
User
Ranking
Feedback
Quiz
S.N.
Name
Gender
College
Email
Mobile
1
111
M
111
123@gmail.com
1111111111
2
Akshay Pandita
M
dsd
akshaypandita20000@gmail.com
8825079635
3
Tarun Pratap
M
123
honpra@gmail.com
3456789
4
Nimish Mangal
M
NITK
nimish.mangal910@gmail.com
123456789
5
Nimish Mangal
M
nitk
nimish@gmail.com
8602453008
6
Nimish Mangal
M
NITK
nimishmangal98@gmail.com
8602453008
7
Nimish Mangal
M
NITK
nimishmangal@gmail.com
1234567890
Powered by 000webhost

Enter Quiz Details

Enter Quiz title

Enter total number of questions

Enter marks on right answer

Enter minus marks on wrong answer without sign

Enter time limit for test in minute

Enter #tag which is used for searching

Write description here...

S.N.	Topic	Total question	Marks	Time limit	
1	Data Structures	15	45	12 min	Remove
2	Database Management Systems	10	30	5 min	Remove
3	Current Affairs	20	80	10 min	Remove
4	Linux :vi Editor	5	10	10 min	Remove
5	Linux:startup	5	10	10 min	Remove
6	Networking	2	4	5 min	Remove
7	C++ Coding	2	4	5 min	Remove
8	Php Coding	2	4	5 min	Remove
9	Linux : File Managment	2	4	5 min	Remove

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7	C++ Coding	2	4	5 min	Remove
8	Php Coding	2	4	5 min	Remove
9	Linux : File Managment	2	4	5 min	Remove

N.I.T.K Home History Ranking Enter tag Search

S.N.	Topic	Total question	Marks	Time limit	
1	Data Structures	15	45	12 min	Start
2	Database Management Systems	10	30	5 min	Start
3	Current Affairs	20	80	10 min	Start
4	Linux :vi Editor	5	10	10 min	Start
5	Linux:startup	5	10	10 min	Start
6	Networking	2	4	5 min	Start
7	C++ Coding	2	4	5 min	Start
8	Php Coding	2	4	5 min	Start

Result

Total Questions	2
right Answer	0
Wrong Answer	2
Score	-2
Overall Score	-2

Automation Test Cases

1.User Login

Untitled
about
developers
feedback
log-in*
login test
sign-up
user log-in

	Command	Target	Value
1	*open*		
2	*set window size*		
3	*close*		
4	*click*	css=b	
5	*mouse over*	css=b	
6	*mouse out*	css=b	
7	*click*	id=email	
8	*type*	id=email	qwer@gmail.com
9	*click*	id=password	
10	*type*	id=password	qwerty
11	*click*	css=.btn:nth-child(2)	
12	*click*	linkText=Signin	
13	*mouse over*	linkText=Signin	

2.About

Untitled
about
developers
feedback
log-in
login test
sign-up
user log-in

	Command	Target	Value
1	*open*	http://localhost/Online/index.php	
2	*set window size*	1346x708	
3	*click*	linkText=About us	
4	*store window handle*	root	
5	*select window*	handle=${win953}	
6	*close*		
7	*select window*	handle=${root}	

3.Developers

Untitled
about
developers
feedback
log-in
login test
sign-up
user log-in

	Command	Target	Value
1	*open*	http://localhost/Online/index.php	
2	*set window size*	1346x708	
3	*click*	linkText=Developer	
4	*click*	css=#developers .close > span:nth-child(1)	

4.Feedback

- Untitled
- about
- developers
- feedback
- log-in
- login test
- sign-up
- user log-in

	Command	Target	Value
1	*open*	http://localhost/Online/index.php	
2	*set window size*	1346x708	
3	*click*	linkText=Feedback	
4	*select window*	handle=${win1585}	
5	*click*	id=name	
6	*type*	id=name	nimish
7	*send keys*	id=name	${KEY_ENTER}

5.Login

- Untitled
- about
- developers
- feedback
- log-in*
- login test
- sign-up
- user log-in

	Command	Target	Value
2	*set window size*	1346x708	
3	*click*	linkText=Admin Login	
4	*click*	name=uname	
5	*type*	name=uname	123
6	*type*	css=.form-group:nth-child(2) > .form-control	123
7	*send keys*	css=.form-group:nth-child(2) > .form-control	${KEY_ENTER}
8	*click*	css=tr:nth-child(4) .pull-right	
9	*click*	css=.bg	
10	*click*	css=input:nth-child(11)	
11	*click*	css=.btn:nth-child(15)	
12	*click*	css=.btn:nth-child(15)	
13	*click*	css=input:nth-child(5)	
14	*click*	css=.btn:nth-child(15)	

6.login test

- Untitled
- about
- developers
- feedback
- log-in*
- login test
- sign-up
- user log-in

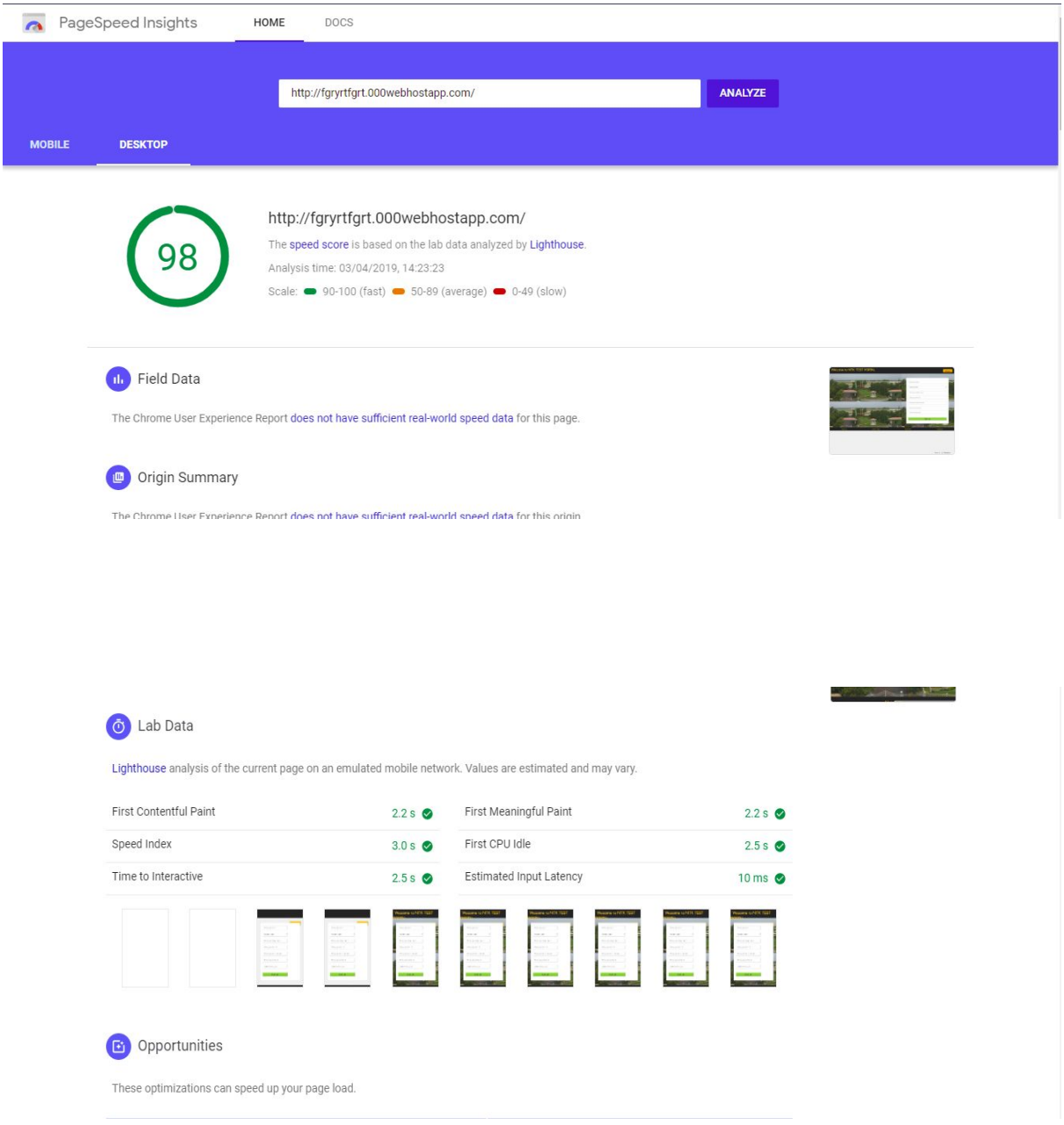
	Command	Target	Value
1	*open*	http://localhost/Online/index.php	
2	*set window size*	1346x708	
3	*click*	css=b	
4	*click*	id=email	
5	*type*	id=email	qwer@gmail.com
6	*click*	id=password	
7	*click*	id=password	
8	*double click*	id=password	
9	*type*	id=password	qwertyuiop
10	*click*	css=.btn:nth-child(2)	
11	*click*	linkText=Ranking	
12	*click*	linkText=History	
13	*click*	css=li:nth-child(1) > a	

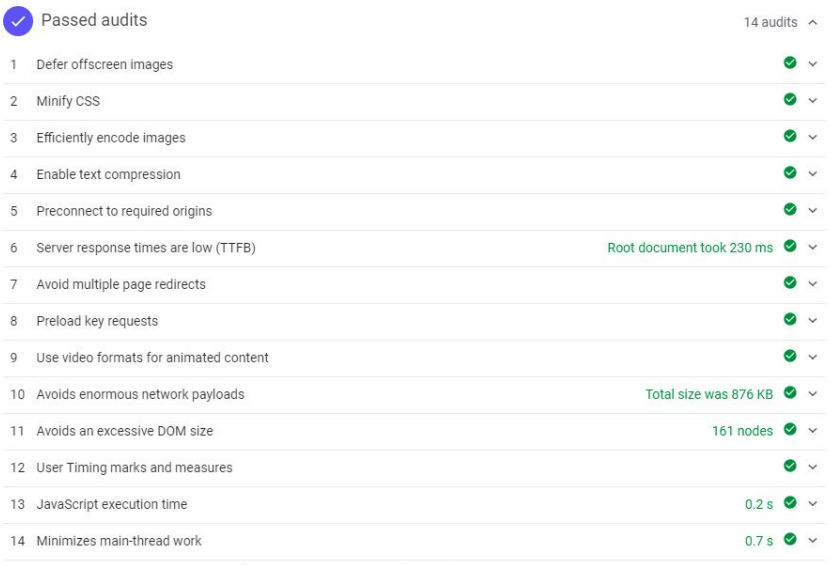
7.Signup

- Untitled
- about
- developers
- feedback
- log-in*
- login test
- sign-up
- user log-in

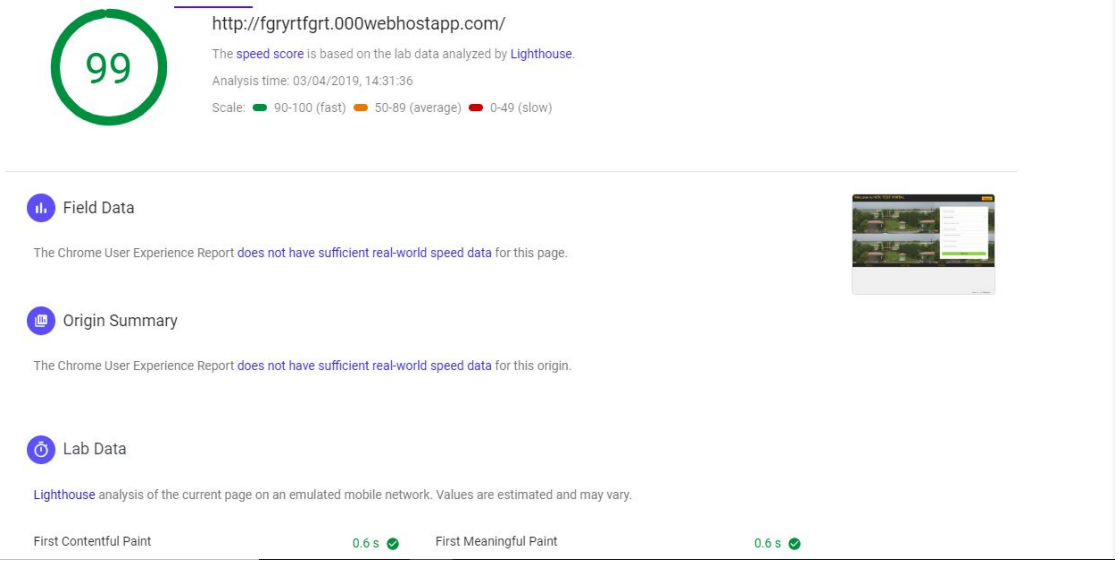
	Command	Target	Value
1	*open*	http://localhost/Online/index.php	
2	*set window size*	1346x708	
3	*click*	id=name	
4	*type*	id=name	nimish mangalaaa
5	*select*	id=gender	label=Male
6	*type*	id=college	nitk
7	*type*	css=.col-md-12 > #email	nimish11@gmail.com
8	*type*	id=mob	1234567890
9	*type*	css=.col-md-12 > #password	qwertyuiop
10	*type*	id=cpassword	qwertyuiop
11	*click*	css=.sub	
12	*click*	css=tr:nth-child(8) .glyphicon	
13	*click*	css=.btn:nth-child(3)	

Performance Testing





After changing the grades in the performance testing



Lab Data

Lighthouse analysis of the current page on an emulated mobile network. Values are estimated and may vary.

First Contentful Paint	0.6 s	First Meaningful Paint	0.6 s
Speed Index	1.2 s	First CPU Idle	0.6 s
Time to Interactive	0.6 s	Estimated Input Latency	10 ms

Opportunities

These optimizations can speed up your page load.

	Opportunity	Estimated Savings
1	Eliminate render-blocking resources	0.54 s
2	Properly size images	0.48 s

First Contentful Paint	0.6 s	First Meaningful Paint	0.6 s
Speed Index	1.0 s	First CPU Idle	0.6 s
Time to Interactive	0.6 s	Estimated Input Latency	10 ms

Opportunities

These optimizations can speed up your page load.

	Opportunity	Estimated Savings
1	Eliminate render-blocking resources	0.54 s
2	Properly size images	0.48 s
3	Serve images in next-gen formats	0.4 s

Diagnostics

More information about the performance of your application.

PageSpeed Insights HOME DOCS

1	Defer offscreen images	
2	Minify CSS	
3	Minify JavaScript	Potential savings of 45 KB
4	Defer unused CSS	Potential savings of 26 KB
5	Efficiently encode images	
6	Enable text compression	
7	Preconnect to required origins	
8	Server response times are low (TTFB)	Root document took 250 ms
9	Avoid multiple page redirects	
10	Preload key requests	
11	Use video formats for animated content	
12	Avoids enormous network payloads	Total size was 876 KB
13	Avoids an excessive DOM size	161 nodes
14	User Timing marks and measures	
15	JavaScript execution time	

https://www.webpagetest.org/performance_optimization.php?test=190403_77_fa62f253f9e6d602c738c0adeda38f1e&run=1#use_of_cdn

Apps | WhatsApp | List of MBA Speciali... | Linear Regression T... | An Introduction to... | Engi Marketing-17... | Adding a Google M... | Slides for CIS 675 [... | Dashboard | IRIS | 127.0.0.1

Details

First Byte Time (back-end processing): 100/100

153 ms First Byte Time
298 ms Target First Byte Time

Use persistent connections (keep alive): 100/100

Use gzip compression for transferring compressable responses: 88/100

182.2 KB total in compressible text, target size = 159.4 KB - potential savings = **22.8 KB**

FAILED - (41.1 KB, compressed = 18.3 KB - savings of **22.8 KB**) - http://fgryrtfgrt.000webhostapp.com/fonts/typo.ttf

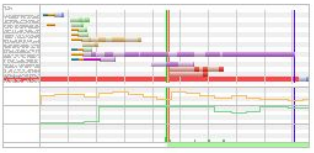
Compress Images: 99/100

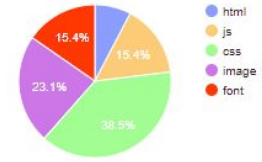
673.2 KB total in images, target size = 665.3 KB - potential savings = **7.8 KB**

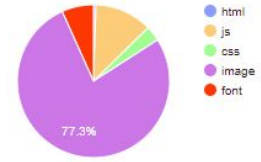
WARNING - (53.5 KB, compressed = 45.7 KB - savings of **7.8 KB**) - http://fgryrtfgrt.000webhostapp.com/image/oppo.jpg

Test Results

Run 1:

	Waterfall	Screenshot
First View (1.816s)		
Content Breakdown		





Page Details

Fully Loaded Time	Total Page Size	Requests
1.1s	881KB	14