

ONLINE EXAM PORTAL

A PROJECT REPORT

Submitted in partial fulfillment for the award of the degree of

B.Tech

in

Information Technology

By

16BIT0441- JAYAPRAKASH K

16BIT0442- SIVAGANESH G

16BIT0443- SURYA K

Under the guidance of

SUMAIYA THASEEN I



School of Information Technology and Engineering

November, 2017

EXECUTIVE SUMMARY

This is a project on online education portal for student. It is basically created for online study. A student has to enroll himself for different courses as provided by the institute. This website also provides facility to faculty members to upload their study material and practice quiz exam for student. This leads to improved quality of the student's learning approach. To avail this facility as student and faculty member has to register themselves. This project is developed solely for college student. It's benefits are that student will get knowledge of basic concepts of different courses like PYTHON etc and updated technology like PHP,c# etc.

LIST OF FIGURES

Figure No	Title	Page No.
Fig 2.4	Time line chart	8
Fig 4.2.1	Use case diagram	12
Fig 4.2.2	Sequence diagram	14
Fig 4.2.3	Class diagram	15
Fig 4.2.4	System flow chart	16
Fig 4.2.5	E-R diagram	17
Fig 5.1.1	sign in implementation	18
Fig 5.1.2	sign up implementation	19

LIST OF TABLES

Table No	Title	Page No
Table 5.2	Test cases	

1. INTRODUCTION

1.1 Background

Today Online Examination System has become a fast growing examination method because of its speed and accuracy. It is also needed less manpower to execute the examination. Almost all organizations now-a-days, are conducting their objective exams by online examination system, it saves students time in examinations. Organizations can also easily check the performance of the student that they give in an examination.

Learn Any Course is Online Education Portal to expend knowledge and skills of the student in various fields of Education. Different parts of the world to encourage enthusiastic learners to seek intelligence. For this concern, we provide uncomplicated study materials, quizzes, results and college details personalize dashboard to keep the student learning any course from anywhere.

With the advancement in the technology, in the world people are trying to get things on the desk without wasting anytime as now a days time is the most important thing in the world. So, people are want to get knowledge from the online(websites) resources for time consuming.

It's not possible to everyone to get knowledge from only their college and schools. Like that our project will help them slow learners and more intellectual person or student.

1.2 PROBLEM STATEMENT:

As the idea of online education portal is getting more popular day by day and is growing dramatically so the opportunities for such kind of software has increased and will continue to increase in future.

Our online education portal is very helpful in getting information related to the elementary, secondary, higher secondary, higher and adult education etc. People can also find details of educational institutions, courses, admission procedure, scholarships, technical and medical education and vocational studies etc.

Our portal is only sufficient for dealing with regular students and potential students. So first, they need to create user id and password (sign in). this system should be secure enough and efficient so that online quizzes and mcq testes should be done accurately.

Our online education portal will be used to upload, download books and lectures, conducting online quizzes, managing results. moreover, the product will manage all the record of courses, exam section and fees section. Students will be able to search the available record. Our portal must be right protected and rights of every category of user must be clearly described so that limits for every user access are defined.

1.3 Importance

As to every debate, both supporting and denying opinions co-exist in this regard. One opinion states that even though online education is progressing, it cannot be a substitute to classroom learning, while the other one supports and accepts the benefits and significance of Online Education. The second opinion alone has influenced the outlook towards the traditional education system.

- The best part about online education is that the students in India are enthusiastic about this concept. They want to prove their skills and capabilities while learning in an advanced and interactive environment. Online education has taken away the geographical and financial barriers for receiving quality education.
- Increase in employment is another important aspect of this revolution. With Online Education, skillful trainers and teachers can expand their reach. Students in India can receive education by the top notch professors and instructors in the world.
- Online Education provides professionals with the flexibility to improve and update their skill set while working simultaneously. This helps them in staying updated about the existing advancements and technologies. Online education serves to be a time saving and cost effective procedure for any career.

The quality of education and the overall learning experience will see tremendous improvement with Online Education.

2. Overview and Planning

2.1 Proposed System Overview

This solution will provide assistance in creating, conducting and evaluating examinations. Large organizations will be able to have a centralized database of questions, from which the tests will be prepared. Internet will be used as a media for disseminating and conducting tests, thus maintaining a uniform pattern for all the examinees throughout the organization.

The task of maintaining the record scores and the test for which particular candidate has appeared will be done by the portal. The solution can also be used by faculty members to create question papers.

For colleges, universities managing the examination have never been easy. Now college or university professors can manage question papers very easily.

2.2 Hardware Requirements

- *Support for printer for printing results then and there.

- *Screen resolution of at least 800X600 is required for proper and complete viewing of screens. Higher resolution will be accepted.

2.3 Software Requirements

- *Any windows based operating system

- *MongoDB-for database.

- *Notepad++ for developing code.

- * Any kind of browser like chrome

2.4 Project Schedule (Timeline chart)

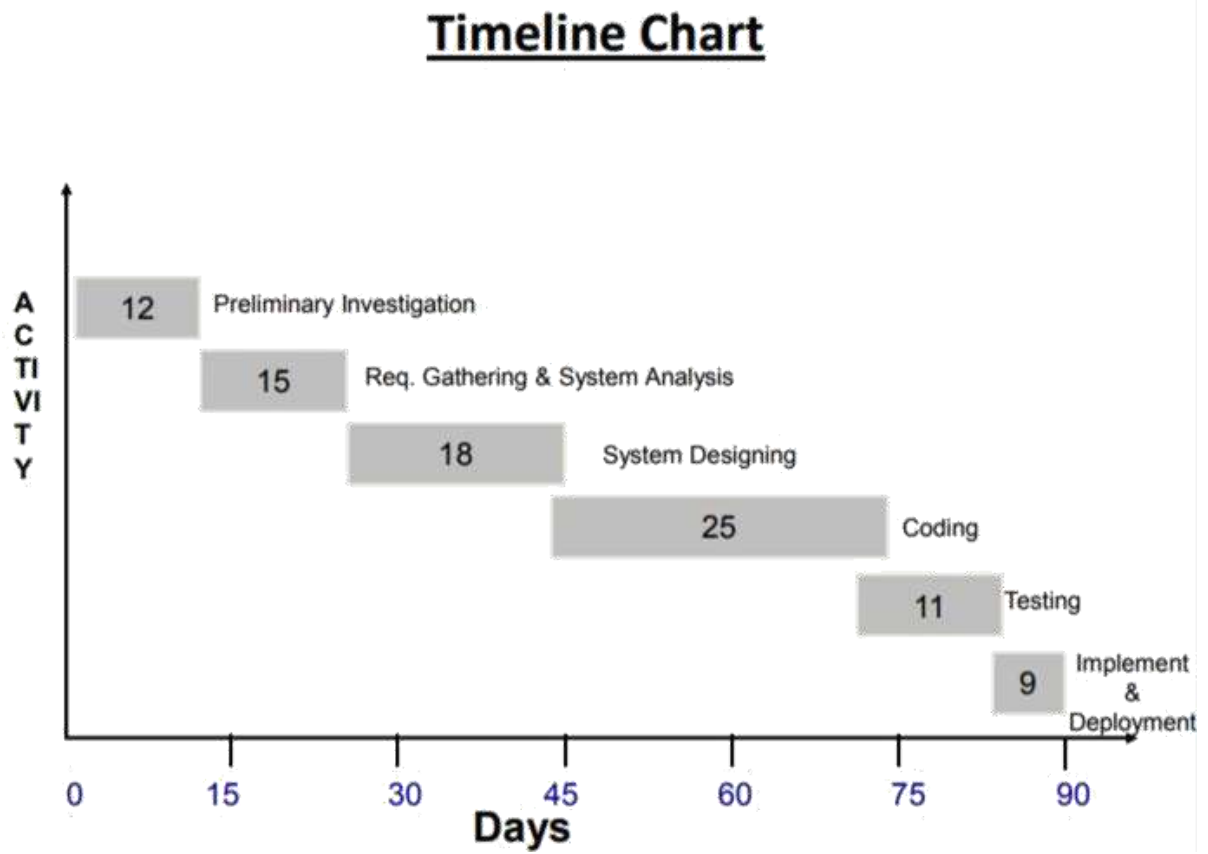


Fig 2.4

3. Literature Survey and Review

3.1 Literature Survey

EXISTING SYSTEM

The whole process of assigning test and evaluating their scores after the test, was done manually till date. Processing the test paper i.e. checking and distributing respective scores used to take time when the software was not Installed.

DISADVANTAGES OF CURRENT SYSTEM

- The current system is very time consuming.
- It is very difficult to analyze the exam manually.
- To take exam of more candidates more invigilators are required but no
- Results are not precise as calculation and evaluations are done
- The chances of paper leakage are more in current system as compared
- Result processing takes more time as it is done manually

CHARACTERISTIC OF THE PROPOSED SYSTEM

- The online test created for taking online test has following features
- In comparison to the present system the proposed system will be less time consuming and is more efficient.
- Analysis will be very easy in proposed system as it is automated
- Result will be very precise and accurate and will be declared in very

- short span of time because calculation and evaluations are done by the Simulator itself.
- The proposed system is very secure as no chances of leakage of question paper as it is dependent on the administrator only.
- The logs of appeared candidates and their marks are stored and can be backup for future use

4. System Design

4.1 Low-Level Design

4.1.1 DESIGN AND ARCHITECTURE:

ARCHITECTURE:

A Web Application architecture can vary greatly depending on the application at hand, its needs, its behavior and of course, the means at hand. That are a lot of layers you can stack up when building a web application, some are "mandatory" like a front end. we have be to able to see and interact with something.

Front-end / Client Side:

The top most visible layer is what's called the Frontend. This is usually written in IDEs like netbeans, HTML, CSS for styling, and Javascript for "interactivity" and function. Of course there are more front end technologies available like Netbeans, visual basic. The data from this layer has to make it to the user's browser which then turns all the code into something beautiful and interactive.

Back-end / Server side:

Below that, you have what's normally called the "Backend". The

"Backend" is where we usually use a programming language (unlike HTML & CSS which are markup languages) such as nodejs, Python, Ruby , Java, SQL .We will be using SQL to create our database.

Database:

In order for most web application to function, we need to be able to store data somewhere. That somewhere is usually a database of some sort. Some big name brands and household names are MySQL, PostgreSQL, Oracle, CouchDB, Redis,HBase and the list is pretty endless.

Each one saves data in a different manner and gives different features. Some save tabled data (relational databases) while other saved "paged" data, or even simple key-value pairs. It really depends on what we need to save and how we need to save.

4.2 High-Level Design

4.2.1 use case diagram:

A **use case diagram** at its simplest is a representation of a user's interaction with the system that shows the relationship between the user and the different use cases in which the user is involved.

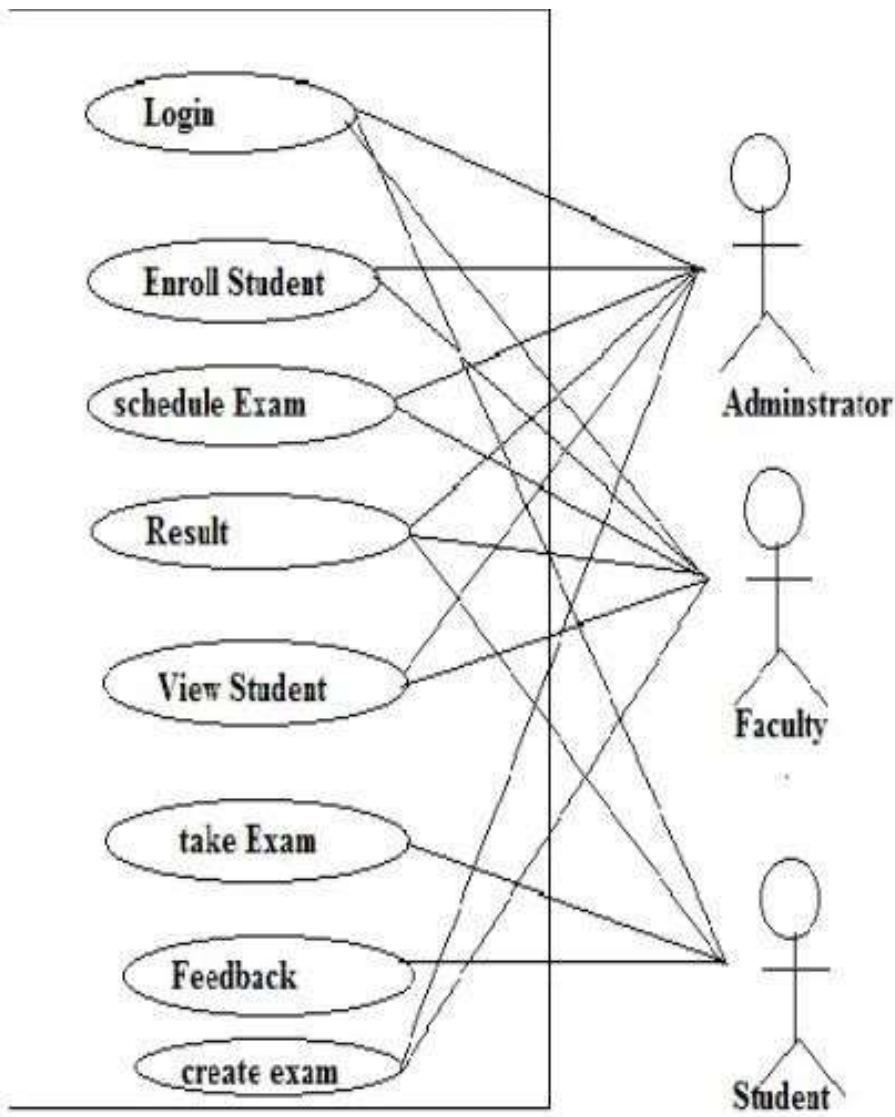


Fig 4.2.1

4.2.2 sequence-diagram:

A **sequence diagram** is an interaction diagram that shows how objects operate with one another and in what order. It is a construct of a message sequence chart.

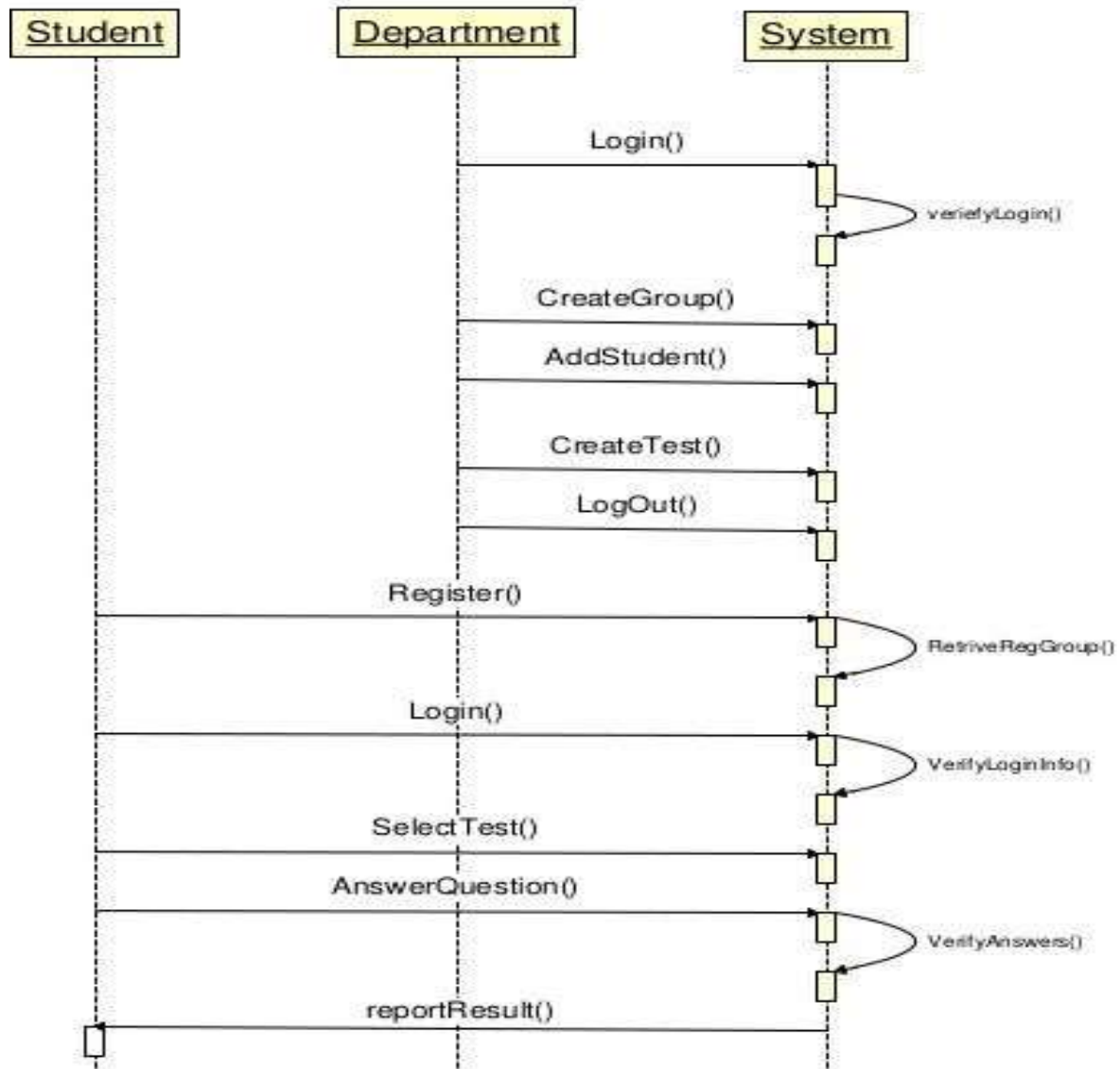


Fig 4.2.2

4.2.3 class diagram:

In software engineering, a class diagram in the Unified Modeling Language (UML) is a type of static structure diagram that describes the structure of a system by showing the system's classes, their attributes, operations (or methods), and the relationships among objects.

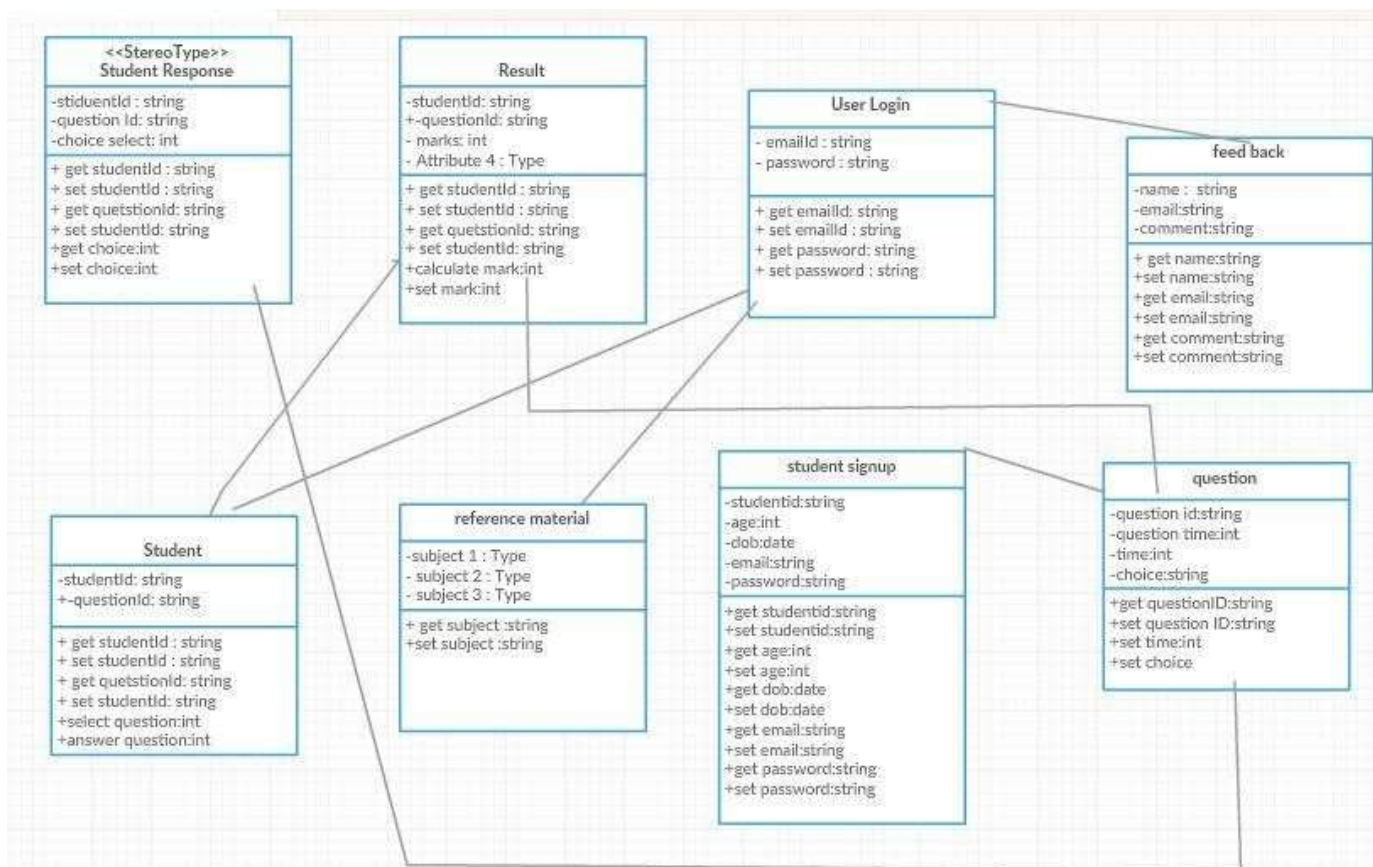


Fig 4.2.3

4.2.4 System Flow Chart

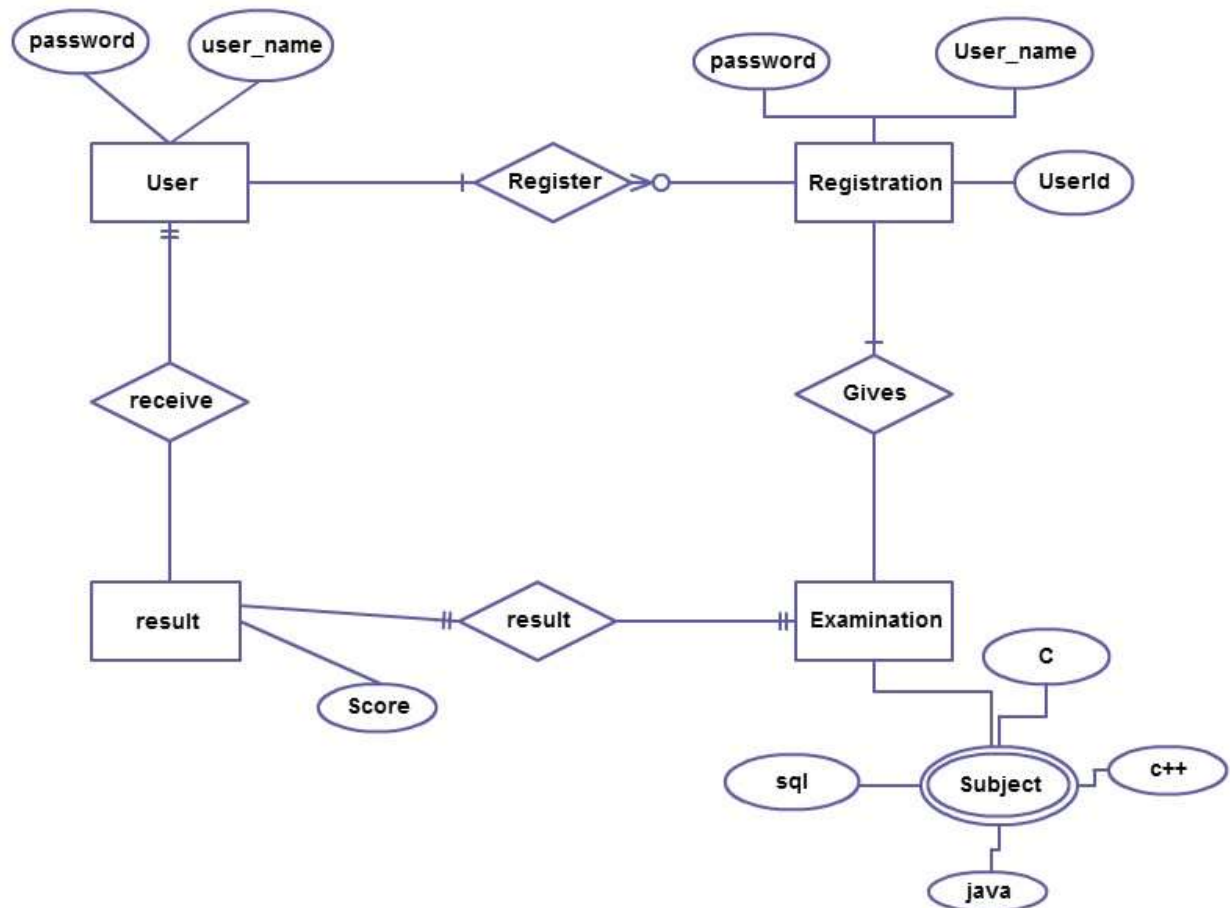


Fig 4.2.4

4.2.5 E.R DIAGRAM

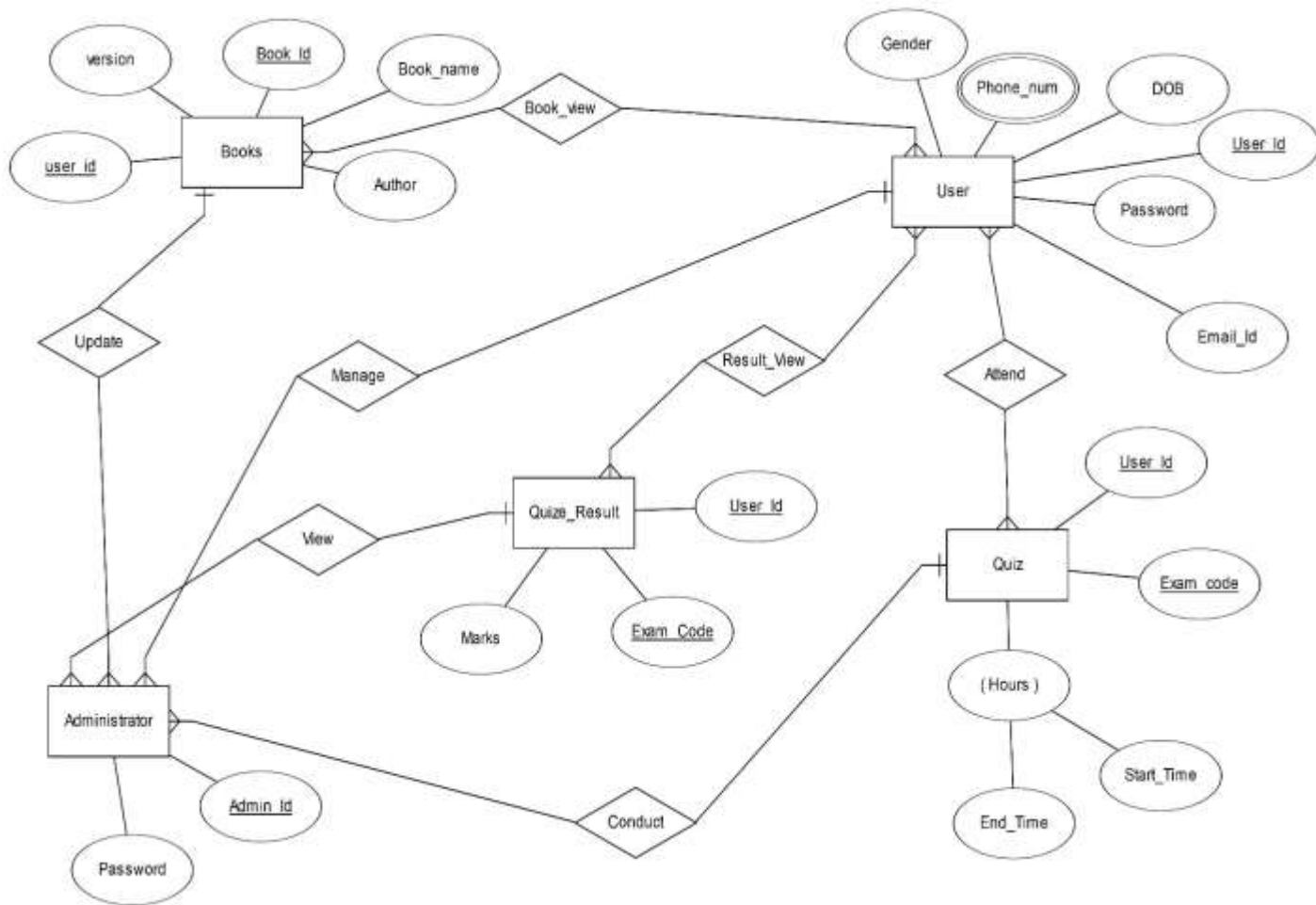
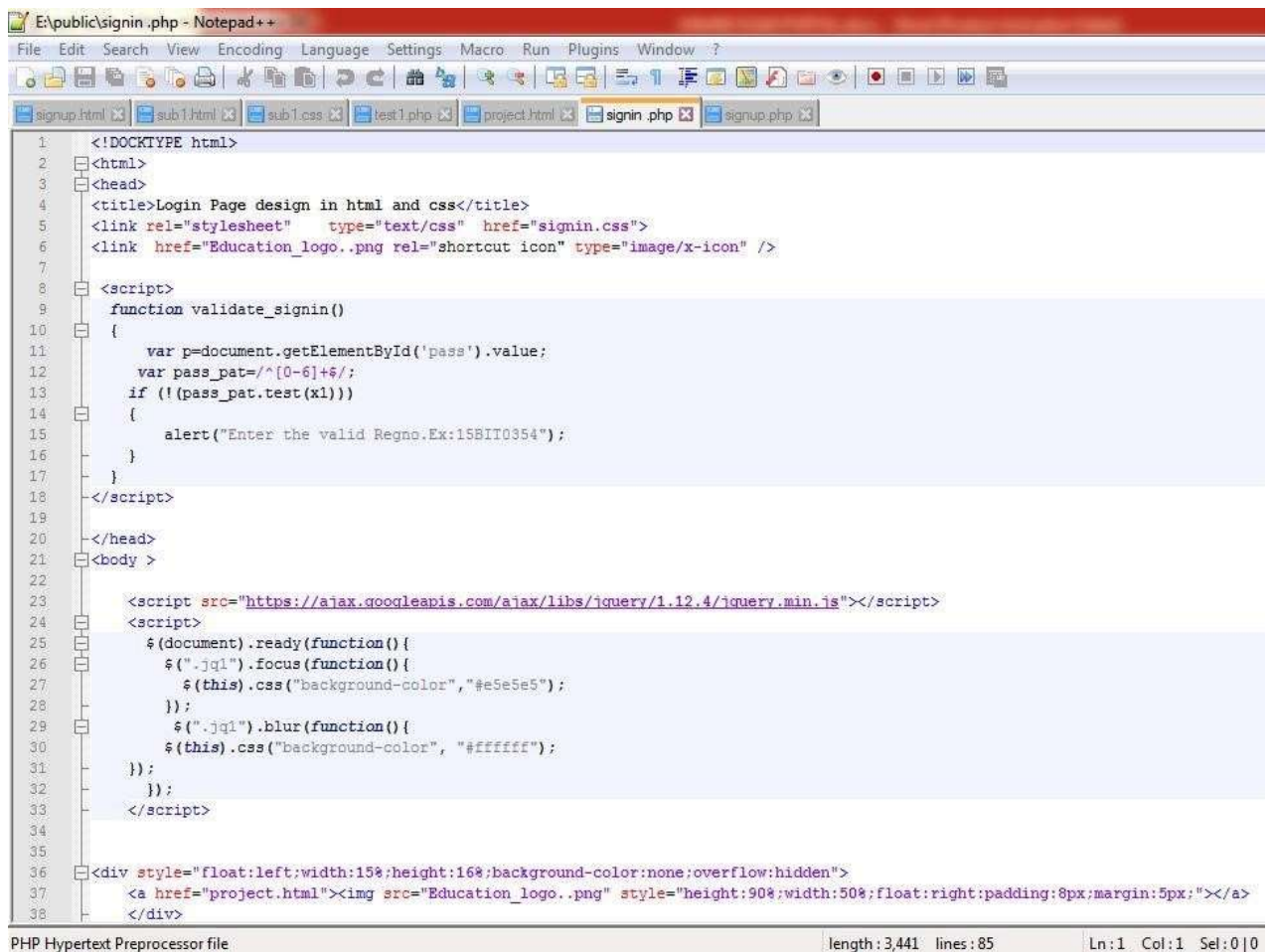


Fig 4.2.5

5. System Implementation

5.1 Code Development

5.1.1 signin page:

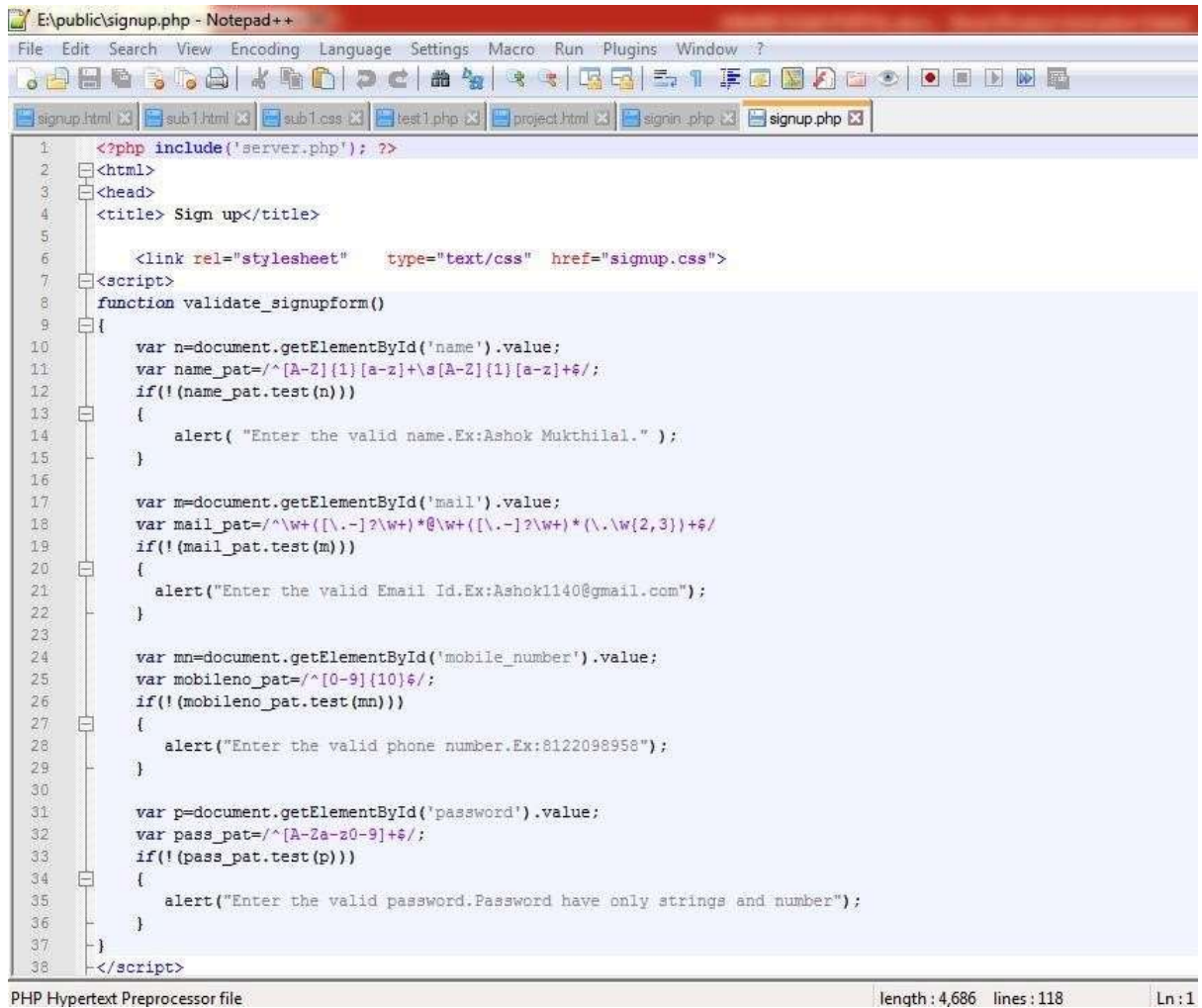


```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Login Page design in html and css</title>
5 <link rel="stylesheet" type="text/css" href="signin.css">
6 <link href="Education_logo.png" rel="shortcut icon" type="image/x-icon" />
7
8 <script>
9 function validate_signin()
10 {
11     var p=document.getElementById('pass').value;
12     var pass_pat=/^[0-6]+$/;
13     if (!(pass_pat.test(x1)))
14     {
15         alert("Enter the valid Regno.Ex:15BIT0354");
16     }
17 }
18 </script>
19
20 </head>
21 <body >
22
23 <script src="https://ajax.googleapis.com/ajax/libs/jquery/1.12.4/jquery.min.js"></script>
24 <script>
25 $(document).ready(function() {
26     $(".jq1").focus(function() {
27         $(this).css("background-color", "#e5e5e5");
28     });
29     $(".jq1").blur(function() {
30         $(this).css("background-color", "#ffffff");
31     });
32 });
33 </script>
34
35
36 <div style="float:left;width:15%;height:16%;background-color:none;overflow:hidden">
37 <a href="project.html"></a>
38 </div>
```

PHP Hypertext Preprocessor file length: 3,441 lines: 85 Ln: 1 Col: 1 Sel: 0 | 0

Fig 5.1.1

5.1.2 signup page:



```
1 <?php include('server.php'); ?>
2 <html>
3 <head>
4 <title> Sign up</title>
5
6 <link rel="stylesheet" type="text/css" href="signup.css">
7 <script>
8 function validate_signupform()
9 {
10     var n=document.getElementById('name').value;
11     var name_pat= /^[A-Z]{1}[a-z]+\s[A-Z]{1}[a-z]+$/;
12     if(!(name_pat.test(n)))
13     {
14         alert( "Enter the valid name.Ex:Ashok Mukthilal." );
15     }
16
17     var m=document.getElementById('mail').value;
18     var mail_pat= /^[^~\w+([\~\w+]*@(\w+([\~\w+]*\.\w{2,3})+)$/;
19     if(!(mail_pat.test(m)))
20     {
21         alert("Enter the valid Email Id.Ex:Ashok1140@gmail.com");
22     }
23
24     var mn=document.getElementById('mobile_number').value;
25     var mobileno_pat= /^[0-9]{10}$/;
26     if(!(mobileno_pat.test(mn)))
27     {
28         alert("Enter the valid phone number.Ex:8122098958");
29     }
30
31     var p=document.getElementById('password').value;
32     var pass_pat= /^[A-Za-z0-9]+$/;
33     if(!(pass_pat.test(p)))
34     {
35         alert("Enter the valid password.Password have only strings and number");
36     }
37 }
38 </script>
```

PHP Hypertext Preprocessor file length: 4,686 lines: 118 Ln: 1

Fig 5.1.2

5.2 Test Cases

Users test cases:

Case id	Test case	Expected Output	Actual output	Pass/fail	remarks
01	Login test	Login with proper details	successfully	pass	good
02	Signin Information	Proper register with Exception handling	successfully	pass	good
03	View quiz information	Proper Quiz information	Successfully	pass	good
04	Download book	Proper download	sucessfully	pass	good
05	feedback	Correctly send	sucessfully	pass	good

Table 5.2

7. Conclusion and Future Work

7.1 Conclusion

I have tried to implement an examination portal for those who want to give the exam online or want to practice for the competitions.

When the user register on this portal the password is stored in the encrypted for using some also.

User can take the test online of his/her choice regarding the filled and see the progress according to the scorecard generated.

7.2 Future work:

The future plan is to come up with much better technique of encrypted of password using my own algorithm so that I can publish some research papers on that.

I am also thinking to make the site more user friendly and more attractive. I am also thinking to connect with social networking site like face book, twitter etc.

8. References

Journal Articles

Baloglu, S. and Brinberg, D. (1997) 'Affective images retrieval', *Journal of IMAGE Processing* , Vol. 35, No. 4, pp.11–15.

Books

Bryman, A. and Cramer, D. (1997) *Quantitative Data Analysis with SPSS for Windows*, London: Routledge.

Conference Papers

Vaughan, R., Andriotis, K. and Wilkes, K. (2000) 'Characteristics of tourism employment: The case of Crete'. *Paper Presented at the 7th ATLAS International Conference. NorthSouth:Contrasts and Connections in Global Tourism. June 18-21, 2000. Savonlinna, Finland.*

<----- Thank you! ----->

