

**GURU NANAK DEV UNIVERSITY,  
AMRITSAR**

Six Months Industrial Training Project Report

On

AceInterviewTest

Submitted in the partial fulfillment of the requirement for the Award of Degree of

**Bachelors of Technology**

In

**COMPUTER SCIENCE & ENGINEERING**



**Batch ( 2014-2018 )**

**SUBMITTED TO:**

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Roll no. : **2014CSA1033**

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# LETTER



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## Venus Software Solutions

(AN ISO 9001:2015 Certified Company)

**Software Consultancy Services**

Ref No. 2K18-3321

Dated: 30-5-2018

To whom it may concern

We are pleased to certify that Mr. Arshdeep Singh S/o S. Paramjit Singh Student of B.Tech (CSE) in GNDU (ASR.) has successfully completed his Industrial Training from 2 Jan. 2018 to 30 May 2018. During this time he has learnt J2SE & J2EE and made following project.

- AceInterviewTest

During this tenure he was honest and hardworking.

We wish him all the success.

**Thanking You**

For Venus Software Solutions  
Shalinder Pal Singh

## **ACKNOWLEDGMENT**

I would like to take this opportunity to express my gratitude and respect to all those who helped me throughout the duration of this project. I acknowledge the effort of those who have contributed significantly to my project.

A project is a major milestone during the study period of a student. As such this project was a challenge to me was an opportunity to prove my caliber. So it is a great pleasure to have the opportunity to extend my heartfelt thanks to everybody who helped me through the successful completion of this project.

I am very respectful to Ms. Kamaljit Kaur and Ms. Gursimranjot Kaur for giving me the opportunity to carry out the six months industrial training.

My heartiest thanks to Mr. Amrinder Singh for providing critical feedback & support whenever required at VSS(Veenus Software Solutions).

**Arshdeep Singh  
2014CSA1033**

# COMPANY PROFILE



## About company

Veenus Software Solutions is a complete IT Solutions company established in 2009 by core software and business professionals to cater to the needs of the IT dependent Society. We believe "Intelligent Innovations. Smart Solutions." and we strive for our clients IT objective by partnering with them. Our main solutions include Web Solutions and Enterprise Application Solutions.

We offer our customers a highly cost effective option to meet their requirements and achieve the business success they forecasted; with focused customized business oriented solutions through a unique mix of products and services. Our investment in high quality resources combined with a productive work process enables the completion of small projects to large scale applications on time and under budget.

Our development team provides customized solutions to include specific business requirements to existing solutions. We have experience backed up by completing number of commercial projects related to different business sectors.

We provide value to our customers by offering several benefits to them including speed to market, high quality people and processes, cutting edge technology expertise and a full service portfolio.

Hard work, attitude and dedication, these are not just words for the members of the VSS family but their Job Description. We at VSS provide services for enabling you to harness the power of Information.

## Services

### Website Designing

Website Development is a process of creating a solid online presence by providing visually appealing website, enriched with high quality features and functionalities but at the same time keeping it user friendly.

VSS have designed and been instrumental in the creation of many websites over the years and with each design project we strive to go beyond the expectations of our

clients. That is what elicits testimonials and word-of-mouth referrals. Designing the web site to suit the clients' needs is the best method of ensuring satisfied customers.

## **SEO & Web marketing**

Search engine optimization (SEO) is a process of up-gradation of a website by entering competitive keyword related to website, building potential links to secure top position in search engine website with an aim of getting more traffic to website, generate more business leads and increase return on investment.

## **ERP Enterprise Resource Planning Software Development**

ERP stands for enterprise resource planning. Enterprise Resource Planning (ERP) software can be defined as a complete business software solution. The basic purpose and aim of ERP software is to arrange and assimilate all the systems of entering data and processes, as related to business. ERP software is one of the most crucial elements for any business firm which aims to harmonize its business efforts.

### **Clients**

1. Red apple Solutions Portsmouth United Kingdom
2. Prabhat Ayurvedic Pharmacy Amritsar
3. Feijo New Delhi
4. Harmind Shawls Pvt Ltd Amritsar
5. Hotel Veenus International Amritsar
6. Silver Computers Amritsar
7. RS Rice Mills Amritsar
8. RS Residency Hotel Amritsar

& Many More

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# **1. ABOUT THE PROJECT**

## **1.1 Project Name :**

**AceInterviewTest**

## **1.2 Introduction :**

AceInterviewTest is an online computer science interview test preparation website designed in a way to give performance analysis to the students. On AceInterviewTest the students can take tests, which will be timing based. Students can also view their respective performance in terms of ranking of the tests taken.

Students can take different tests of Core Computer Science topics which are generally asked in interview tests of various companies. AceInterviewTest is a great platform where students can improve their interview test taking abilities and can also view and improve their performance .

## **1.3 Objective of the project :**

The objective of this project is to provide students a platform where they can improve their online timing based test taking abilities and allow them to evaluate their preparation by giving them performance analysis of their taken tests. Future interview aspirants who want to test out their knowledge in the field of computer science can use this interactive tool alongside their interview preparation for Tech companies. The software uses no paperwork for its operation.

## **2. PROJECT DETAILS**

### **2.1 Description :**

**AceInterviewTest** is a website that provides a facility to conduct online tests by creating their account and providing a unique id to each student. It is a software in comprising of computer science questions in its database, a test window is provided in which a timer runs for a specific time and within that period one has to answer for those questions. This website reduces the manual work, maintains accuracy, increase efficiency and saves time. Users can take tests, view test history, view their ranks, download practice papers, edit their profile. This site has an administrator who keeps an eye on the overall functioning of the system. The task of admin is to manage courses, sections, questions, papers and responding to user queries.

### **2.2 Main features of the project :**

The main key features are as follows:

#### **Admin Interface:**

---

- 1. Login Module:** Once account is created, admin can fill credentials to login into the account through login module.
- 2. Change/Recover Password Module:** This module allows admin to change or recover password.
- 3. Manage Course Module:** Admin will add courses and will be able to edit and delete those courses in this module.
- 4. Manage subjects Module:** This module allows admin to add, edit and delete subjects under the added courses.
- 5. Manage Question Module:** Admin can add questions under sections of the courses added. Editing and deleting is also possible.
- 6. Manage Papers Module:** Admin will add/delete papers for downloading under this module.
- 7. Manage User Queries Module:** Admin will reply to the user queries under this module.

#### **User Interface:**

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- 1. Registration Module:** User will fill details and register on the website to create an account. User data will be stored on successful registration.

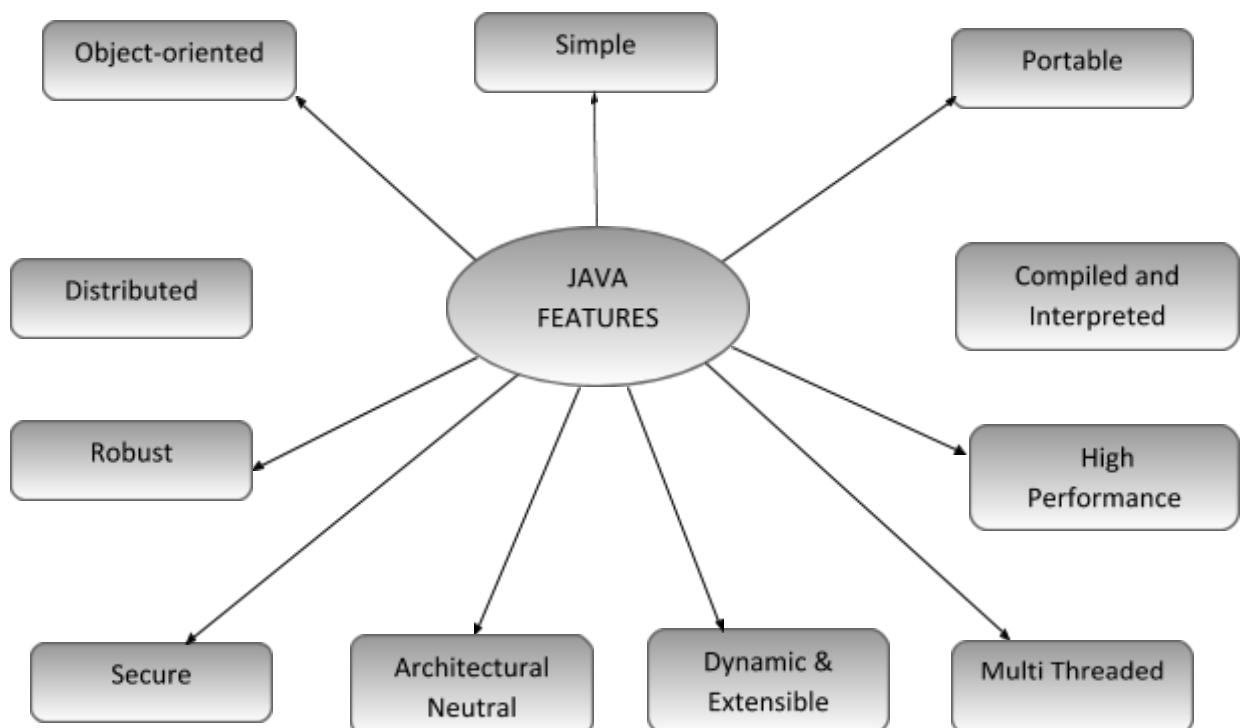
- 2. Login Module:** Once account is created, User can fill credentials to login into the account through login module.
- 3. Change/Recover Password Module:** This module allows admin to change or recover password.
- 4. Manage profile Module:** User can access his/her profile using this module. This module allow user to edit information that was entered during the registration process which includes photo and user data.
- 5. Test Module:** User can choose test to give according to the course wise or section wise. Test would be timing based.
- 6. View result module:** User can search, view and download papers from this section for preparation.
- 7. Test history module:** User can view history for tests taken and also their solutions under this module.
- 8. feedback section:** User can also provide feedback to the tests given using this module.
- 9. ranking module:** User can view ranking of users based on course tests.
- 10. download module:** User can search, view and download papers from this section for preparation.

### 3. DEVELOPMENT TOOLS

#### 3.1 Front End :

##### 3.1.1 Java :-

The Java programming language has been warmly received by the world community of software developers and Internet content providers. Users of the Internet and World Wide Web benefit from access to secure, platform-independent applications that can come from anywhere on the Internet. Software developers who create applications in the Java programming language benefit by developing code only once, with no need to "port" their applications to every software and hardware platform.



### **3.1.2 Java Server Pages(JSP) :-**

JSP technology is used to create dynamic web applications. JSP pages are easier to maintain than a Servlet. JSP pages are opposite of Servlets as a servlet adds HTML code inside Java code, while JSP adds Java code inside HTML using JSP tags. Everything a Servlet can do, a JSP page can also do it.

#### **Advantages of JSP:**

1. Easy to maintain and code.
2. High Performance and Scalability.
3. JSP is built on Java technology, so it is platform independent.

### **3.2 Back End :**

#### **MySQL :-**

MySQL is a open source Relational Database Management System. MySQL is very fast reliable and flexible Database Management System. It provides a very high performance and it is multi threaded and multi user Relational Database management system.

MySQL is one of the most popular relational database Management System on the web. The MySQL Database has become the world's most popular open source Database, because it is free and available on almost all the platforms. The MySQL can run on Unix , window, and Mac OS. .

MySQL source code is available that's why now you can recompile the source code.

### **3.3 Tools To Be Used :**

#### **3.3.1 Java Development Kit (JDK)**

The Java Development Kit (JDK) is a software package that sun has made available to public. It includes all the basic components that makeup the java environment. These include the Java compiler, Java Interpreter, an applet viewer that lets you see applets without opening a Java-compatible web browser.

#### **3.3.2 NetBeans IDE 8.2**

NetBeans IDE is a free, open source, popular integrated development environment used by many developers. Out of the box, it provides built-in support for developing in Java, C, C++, XML, and HTML. And this author especially likes the support for editing

JSPs, including syntax highlighting, HTML tag completion, JSP tag completion, and Java code completion.



### 3.3.3 MySQL Workbench 6.3 CE

MySQL Workbench provides DBAs and developers an integrated tools environment for:

- Database Design & Modeling
- SQL Development
- Database Administration
- Database Migration



## **4. HARDWARE & SOFTWARE REQUIREMENTS**

### **4.1 Server Side :**

#### **4.1.1 Software Requirements(Recommended):-**

The technical specifications of requirements for the software are as follows:

- Any Operating System (Windows, Linux, MAC)
- Java runtime environment
- Netbeans (Java IDE)
- Java SDK (Software Development Kit)
- Any web browser(Chrome , Firefox , etc)

#### **4.1.2 Hardware Requirements (Recommended):-**

- Processor: Dual Core or above.
- Processor speed: Greater than 2.1GHz.
- RAM: Greater than 2GB.

### **4.2 User Side :**

#### **4.2.1 Software Requirements :-**

- Any web browser(Chrome , Firefox , etc) and Internet Connection

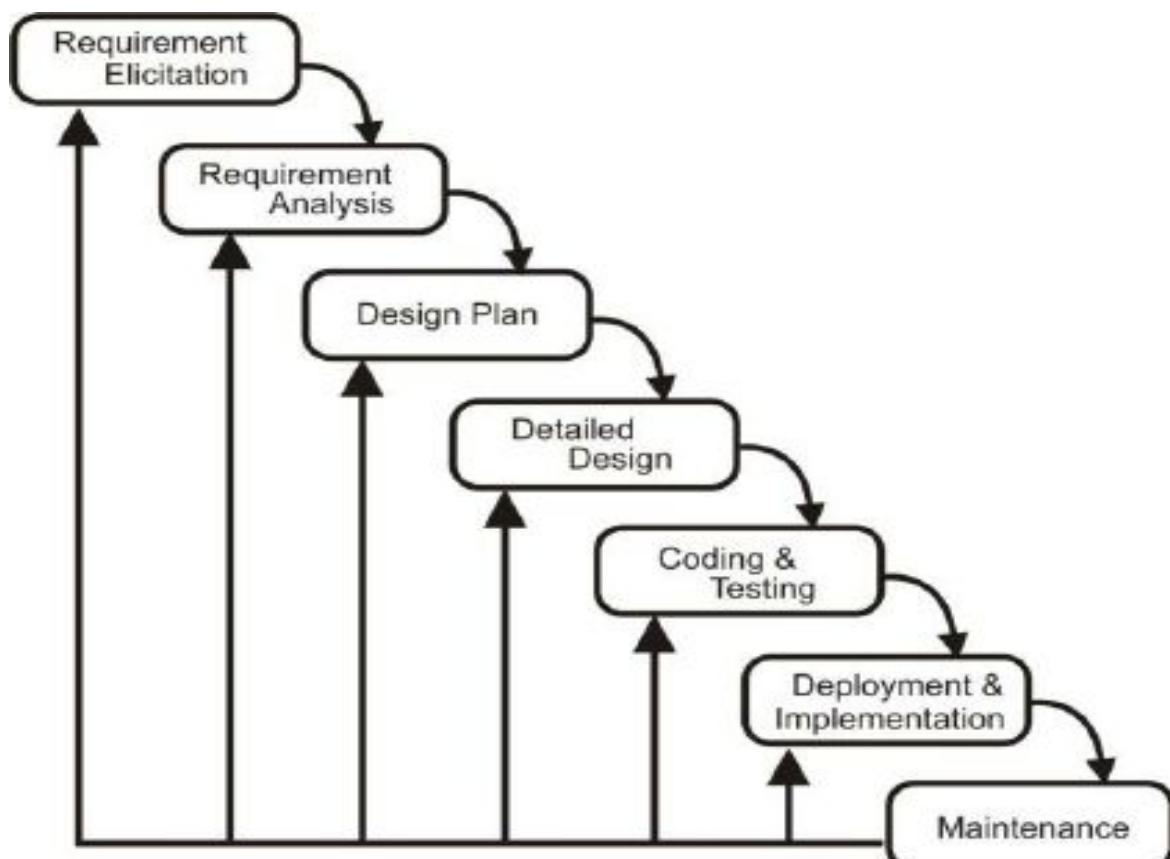
#### **4.2.2 Hardware Requirements:-**

- Microsoft Windows XP Professional SP3/Vista SP1/Windows 7 Professional/Windows 8/Windows 8.1/Windows 10:
  - Processor: 800MHz Intel Pentium III or equivalent.
  - Memory: 512 MB

## 5. MODEL USED

### ITERATIVE WATERFALL MODEL

The iterative waterfall model is a sequential design process, often used in software development processes, in which progress is seen as flowing steadily downwards (like a waterfall) through the phases of Conception, Initiation, Analysis, Design, Coding, Testing, Implementation, and Maintenance.



Iterative Waterfall Model

In iterative waterfall model, the following phases are followed in order:

1. Requirement Analysis & Definition
2. System & Software Design
3. Implementation & Unit Testing
4. Integration & System Testing
5. Operation & Maintenance

### **Requirement Analysis & Definition:**

All possible requirements of the system to be developed are captured in this phase. The requirements are gathered from the end-user by consultation, these requirements are analyzed for their validity .

In URbnb, requirements analysis are specified as the requirements from the user about the facilities and amenities. Finally, a Requirement Specification document is created which serves the purpose of guideline for the next phase of the model.

### **System & Software Design:**

System Design helps in specifying hardware and system requirements and also helps in defining overall system architecture. The system design specifications serve as input for the next phase of the model.

Hardware requirements include that hardware which is required for its working. It includes:

i8 or i5 Computer,4GB RAM, High Speed Internet Connection(DSL/Cable)

The technical specifications of requirements for the software are as follows:

Any Operating System (Windows, Linux, MAC),Java runtime environment,Netbeans (Java IDE),Java SDK (Software Development Kit),Any web browser(Chrome, Firefox, etc).

### **Implementation & Unit Testing:**

On receiving system design documents, the work is divided in modules/units and actual coding is started. Unit testing mainly verifies if the modules/units meet their specifications. The modules such as gallery, property, booking, signup are tested and implemented after being successfully checked.

### **Integration & System Testing:**

As specified above, the system is first divided in units which are developed and tested for their functionalities. In system testing, signup and login modules are approved through Check validations. After successfully testing the software, it is delivered to the user.

## **Operations & Maintenance:**

This phase of "The Iterative Waterfall Model" is virtually never ending phase. Generally, problems with the system developed come up after its practical use starts, so the issues related to the system are solved after deployment of the system. Not all the problems come in picture directly but they arise time to time and needs to be solved; hence this process is referred as Maintenance.

## **Advantages**

The advantage of iterative waterfall development is that it allows for departmentalization and managerial control. A schedule can be set with deadlines for each stage of development and a product can proceed through the development process like a car in a carwash, and theoretically, be delivered on time. Development moves from concept, through design, implementation, testing, installation, troubleshooting, and ends up at operation and maintenance. Each phase of development proceeds in strict order, without any overlapping or iterative steps.

## **Disadvantages**

The disadvantage of iterative waterfall development is that it does not allow for much reflection or revision. Once an application is in the testing stage, it is very difficult to go back and change something that was not well-thought out in the concept stage. Alternatives to the iterative waterfall model include joint application development (JAD), rapid application development (RAD), synch and stabilize, build and fix, and the spiral model.

## **6. SOFTWARE DEVELOPMENT LIFE CYCLE**

### **6.1 Requirement Analysis :**

The ultimate aim of this project is to help the test analysis and facilitate the faculties for easy evaluation of the students and generation of the automatic score cards. The system shall display the set of questions with certain rules. It also displays the category for which the students wish to take the test. The marks are given and report is generated based on the correct answers.

The scope of this project gives immense opportunity for the students to know their levels in the test. It provides effective software so as to help the students as well as the evaluators who are involved in evaluating the student's performance.

The data in this project are maintained in the tabular form using MYSQL in the form of database. It provides easy access to the user. Questions are well maintained under the sections of the added courses. No data loss occurs in the test system.

We assure that the project is completely authenticated in order to enhance security and corruptions of database as well as the software. The person is given access only if he/she has a valid username and password.

### **6.2 Feasibility Study :**

A feasibility study is a preliminary study which investigates the information needs of prospective users and determines the resource requirements, determining the cost effectiveness of various alternatives in the designs of the information system, benefits and feasibility of proposed project.

The goal of the feasibility study is to evaluate alternative systems to propose the most feasible and desirable systems for development.

The feasibility of our proposed system can be evaluated as:-

➤ **TECHNICAL FEASIBILITY:** Technical feasibility can be demonstrated if reliable hardware and software capable of meeting needs of proposed system can be developed or acquired by the business in required time. Our project is technically feasible because the required hardware and software needed for our project are made available to us by our lab technician.

➤ **SCHEDULE FEASIBILITY:** The scheduled feasibility of the system evaluates whether the system finishes its task within the provided time of the development or not. Our project is feasible according to schedule because our project is being completed within the specified time period of our semester.

➤ **OPERATIONAL FEASIBILITY:** The operational feasibility is responsible for the operations of management, faculty members, and students involved in a project. Our project is operationally feasible because the modules we have considered

such as Manual Downloading, Auto Downloading and Manual Uploading provides a combined platform by using which the related tasks can be handled in a easy manner. Though it doesn't include the process of auto uploading but it is operational to full extent.

## **6.3 System Analysis :**

System analysis involves a detailed study of current system, leading to specifications of new system. Analysis is detailed study of various operations performed by a system and the relationships within and outside the system.

The project AceInterviewTest includes different operations such as:-

### **6.3.1 Inputs**

Our system will receive inputs from admin interface and user interface.

#### **6.3.1.1 Input by Admin :-**

- Login by Admin.
- Manage Courses : Admin will add/edit/delete courses into the web application.
- Manage Sections : Admin will add/edit/delete Sections under the added courses into the web application.
- Manage Questions : Admin will add/edit/delete questions under sections of the courses added into the web application.
- Manage Papers : Admin will add/delete papers into the web application.
- Manage queries : Admin will reply to user messages from the web application.
- Change/Recover password by Admin.

#### **6.3.1.2 Input by User :-**

- Sign up/login
- Users can register themselves by providing basic details like username, email, password, contact number
- Change/Recover password
- Users can give tests according to the courses as well as sections of particular courses. After that their test result will be generated.
- Users can edit their profile by changing their basic information such as Email, Password, phone number and profile photo.

- Users can give their feedbacks about the papers according to the courses as well as sections of particular courses.
- Users can post queries to the administrator through contact window.

### **6.3.2 Constraints/Conditions :-**

To keep the system hustle free, it will operate under few conditions like:

- No user is allowed to get access in web app unless he/she has registered himself/herself.
- Only registered users can give the papers listed.

### **6.3.4 Outputs :-**

- User will be able to give all the available tests listed in our web app.
- Admin will see all the added courses, sections, questions and papers and will be able to add more.
- User will see his/her rank,his/her performance,practice papers for downloading, his/her profile.

## **6.4 System design :**

The most creative and challenging phase of **SYSTEM DEVELOPMENT LIFE CYCLE** is the **System Design**. The term **Design** describes the final system and process by which it is developed. It refers to technical specification that will be applied in implementation of, the candidate system. It also includes the construction of programs and program testing. Here the key question is “How the problem should be solved?”

### **STRUCTURED ANALYSIS**

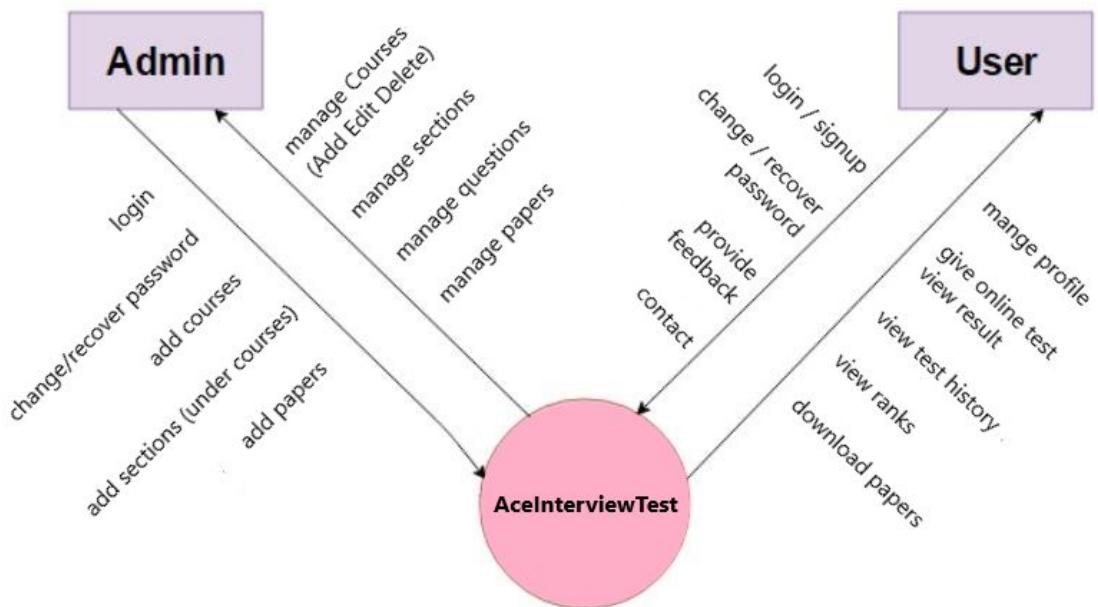
Structured analysis is a set of techniques and graphical tools that allow the analyst to develop a new kind of system specifications that are easily understandable to the user.

#### **6.4.1 Data flow diagram**

A DFD also known as “bubble chart” or “data flow graphs” for the purpose of classifying system requirements and identifying major transformations that will become programs in system design. A DFD shows the flow of data through a system. It views the system as a function that transforms the inputs into desired outputs. The DFD aims to capture the transformation that takes place within a system to the input data so that eventually the output data is produced.

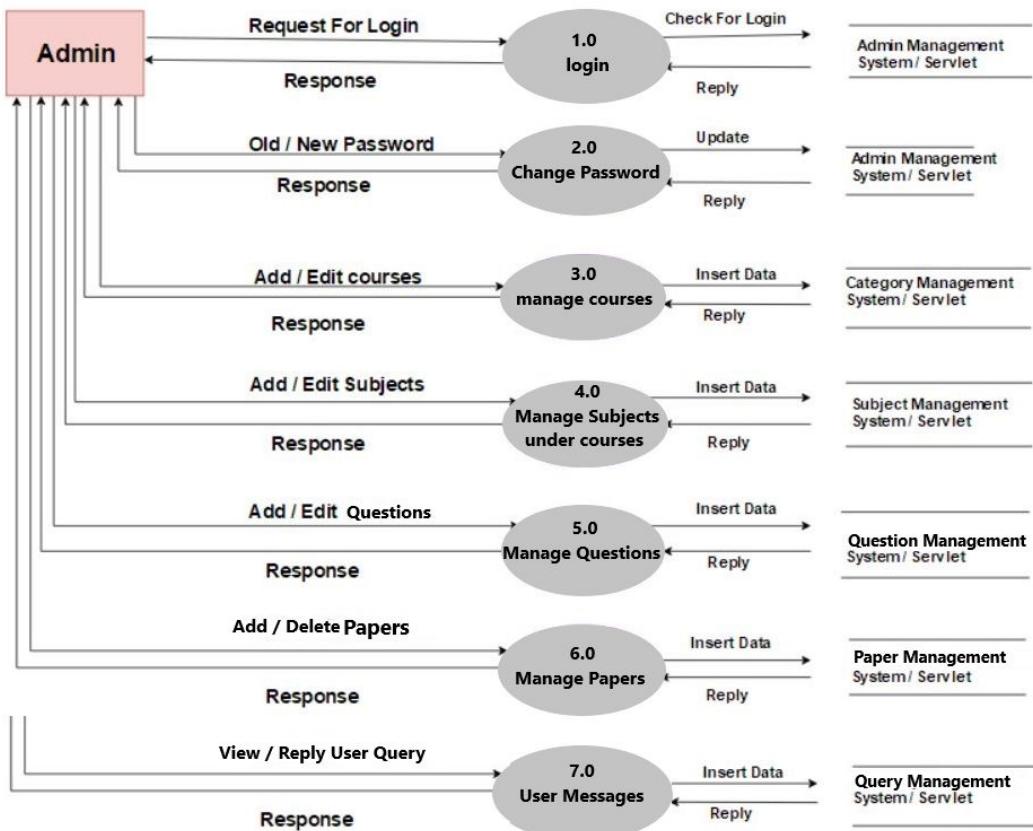
## DATA FLOW DIAGRAM ELABORATING OVERALL PROCESS OF PROJECT

### Level 0 DFD



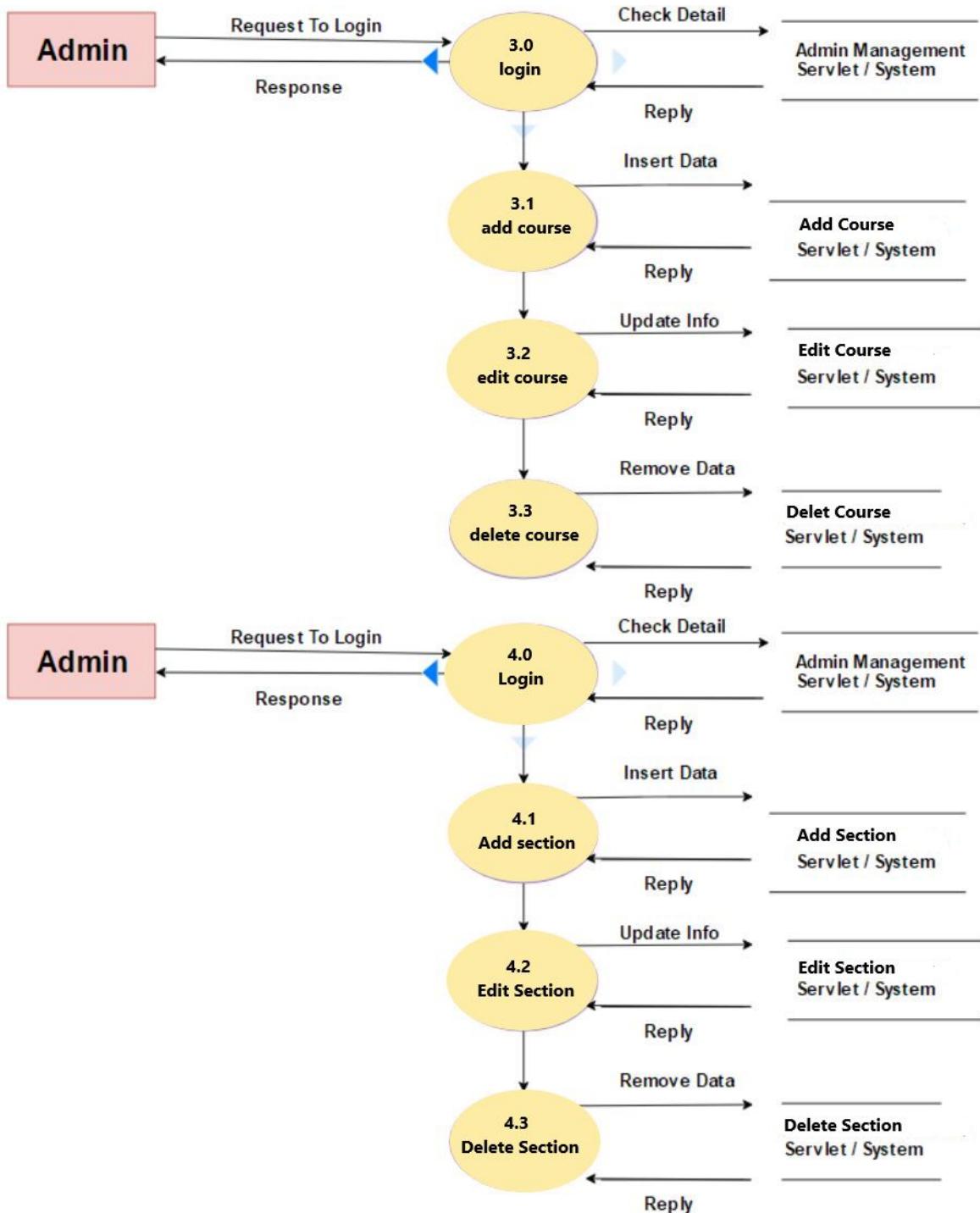
## Level 1 DFD

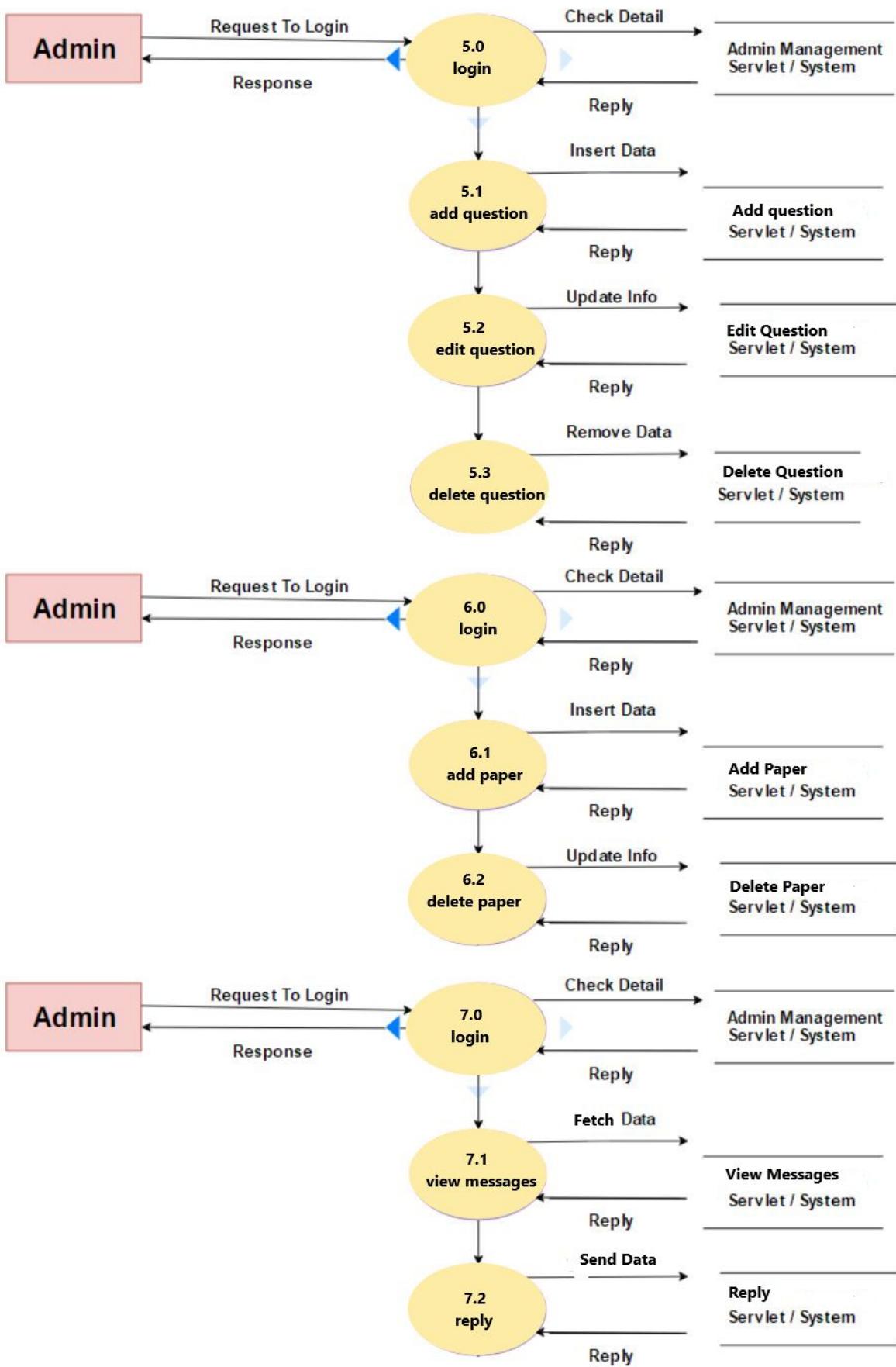
### ADMIN SIDE DFD – 1<sup>ST</sup> LEVEL



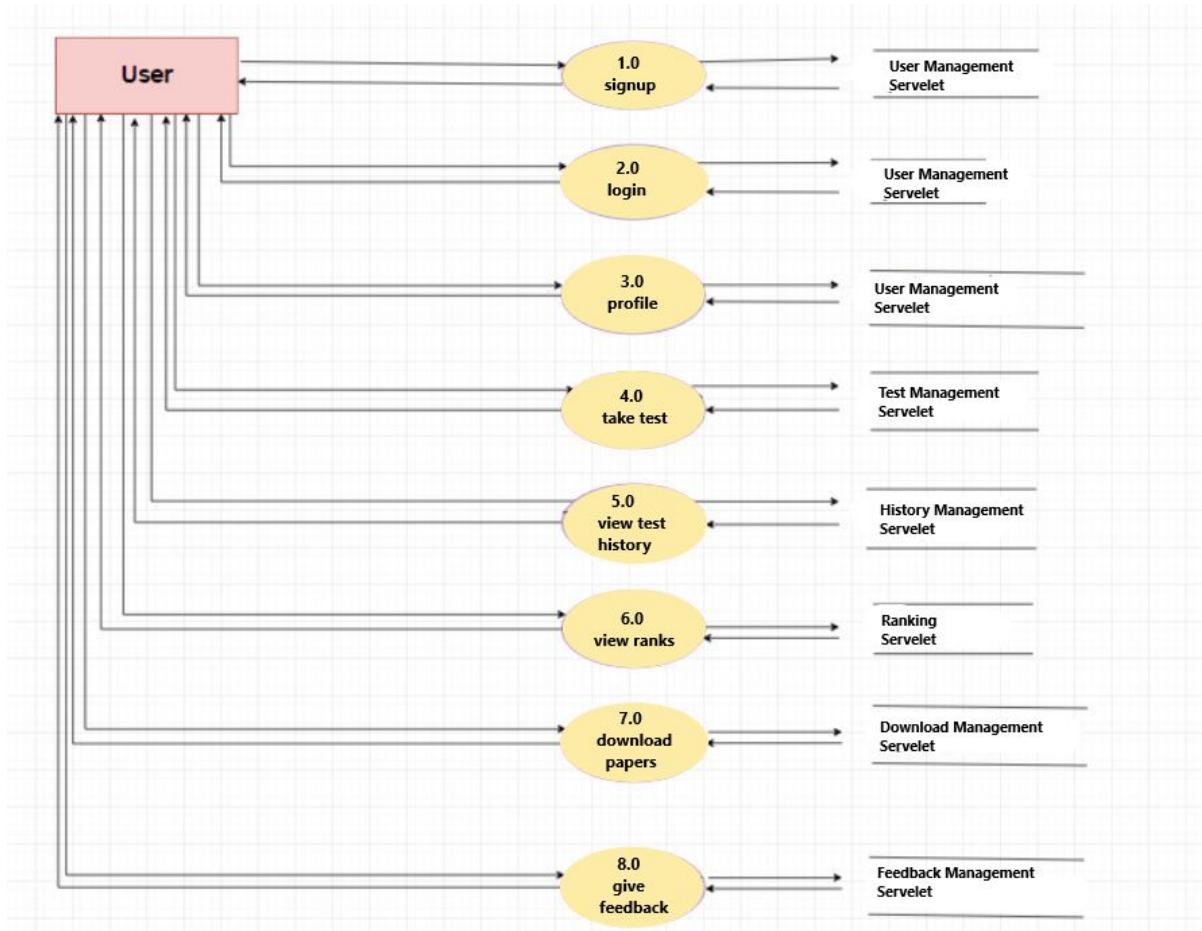
## ADMIN SIDE DFD – 2<sup>nd</sup> LEVEL

### DFD ADMIN --3.0 & DFD ADMIN --4.0



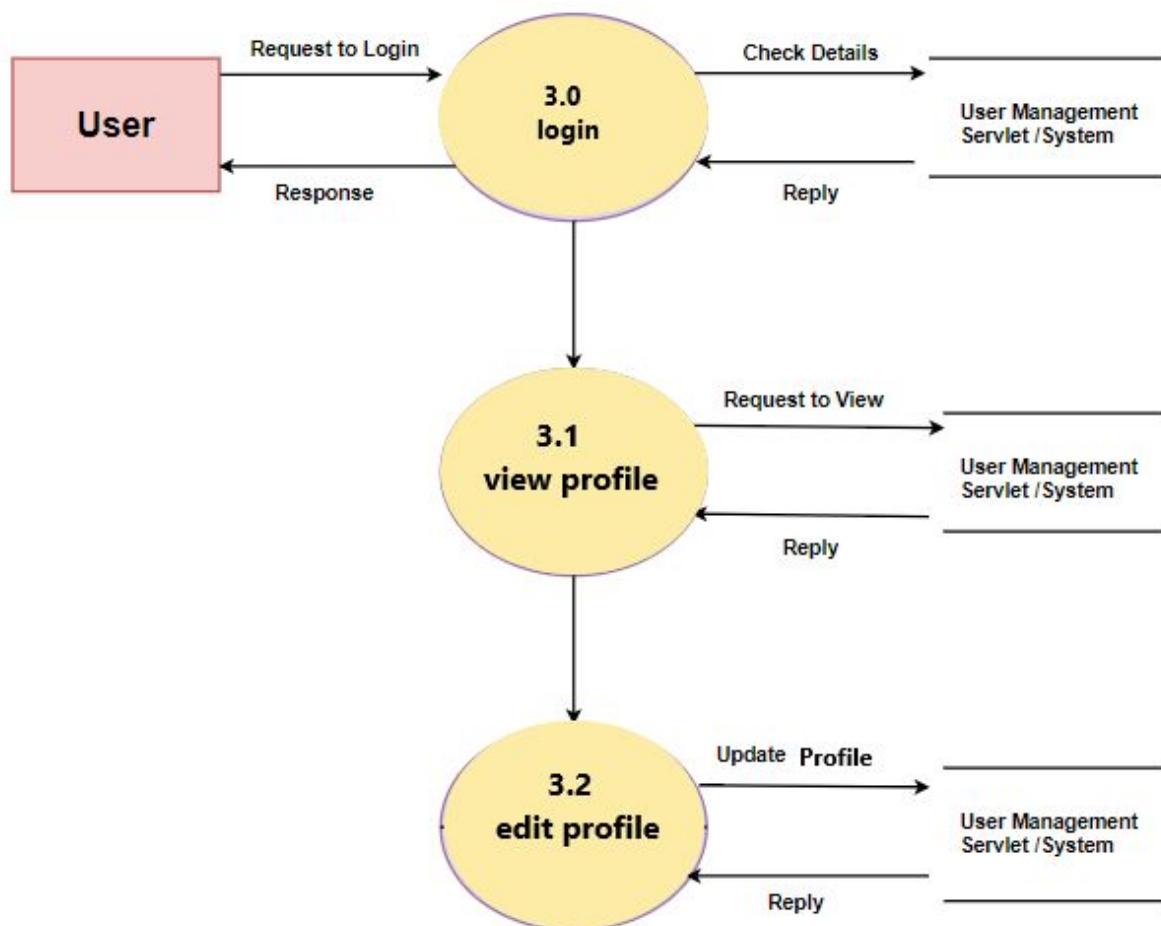


## USER SIDE DFD – 1<sup>ST</sup> LEVEL

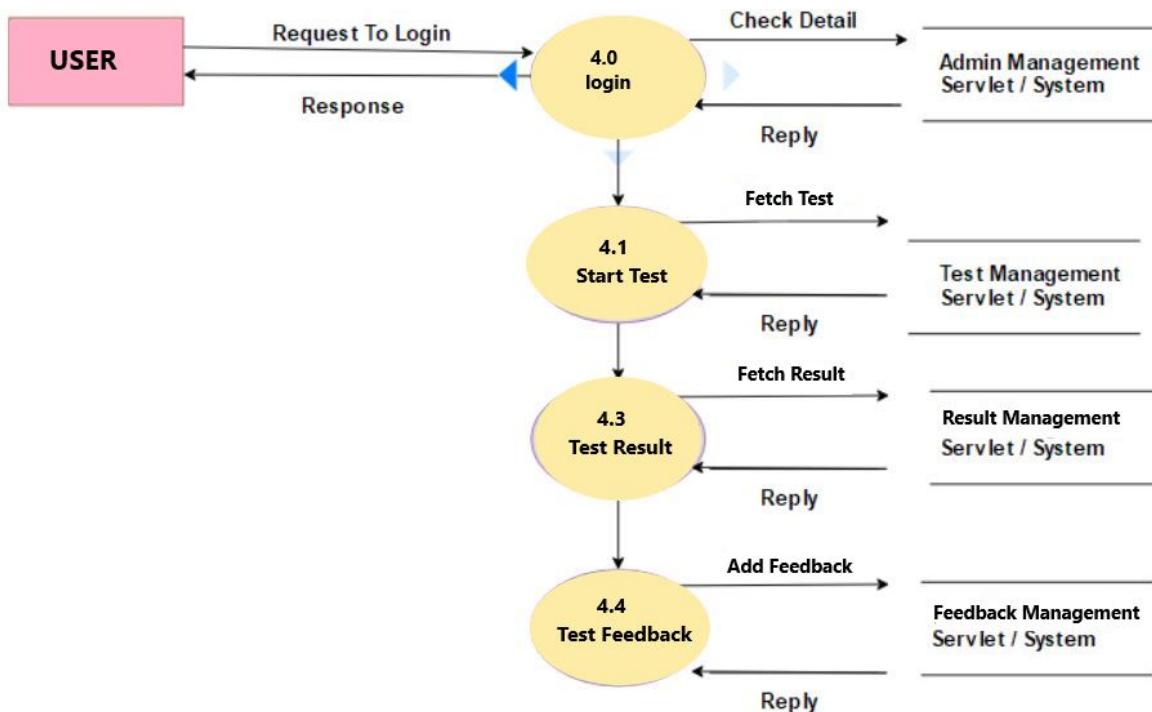


## ADMIN SIDE DFD – 2<sup>nd</sup> LEVEL

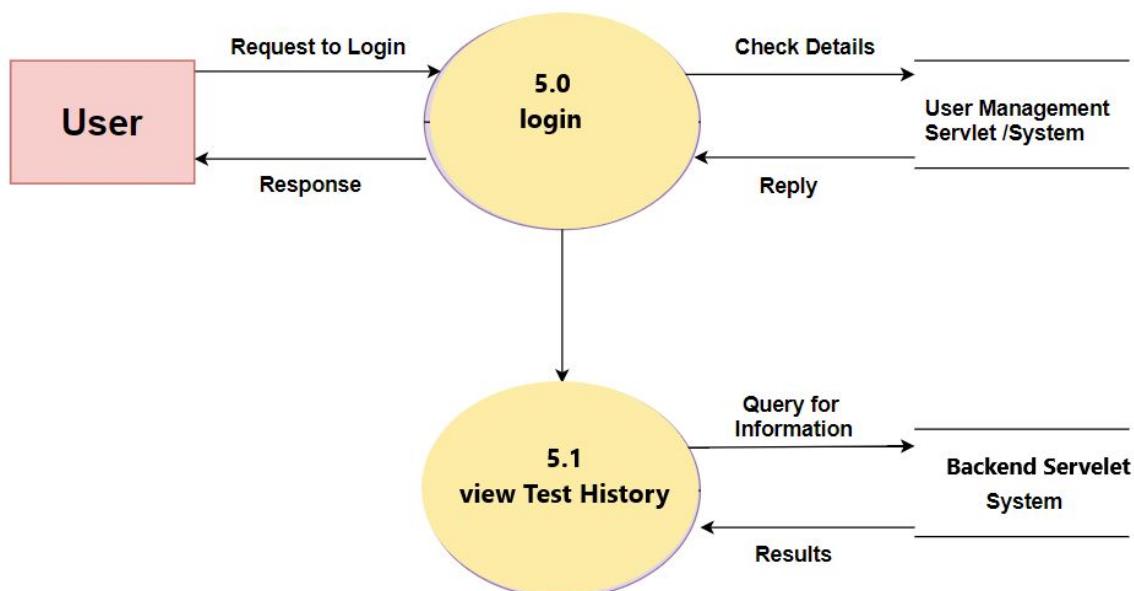
### 2<sup>nd</sup> LEVEL DFD USER --3.0



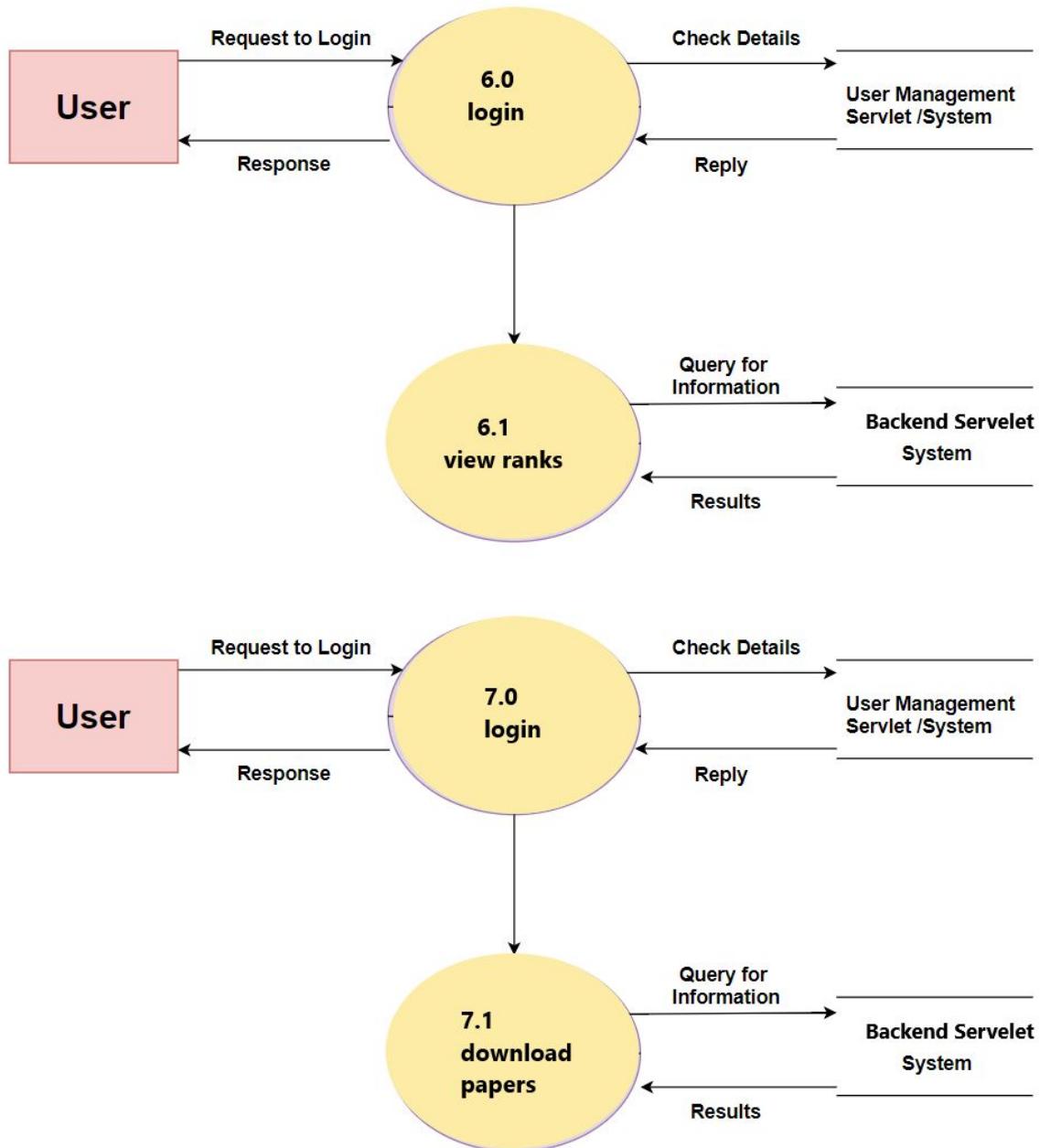
## 2<sup>nd</sup> LEVEL DFD USER --4.0

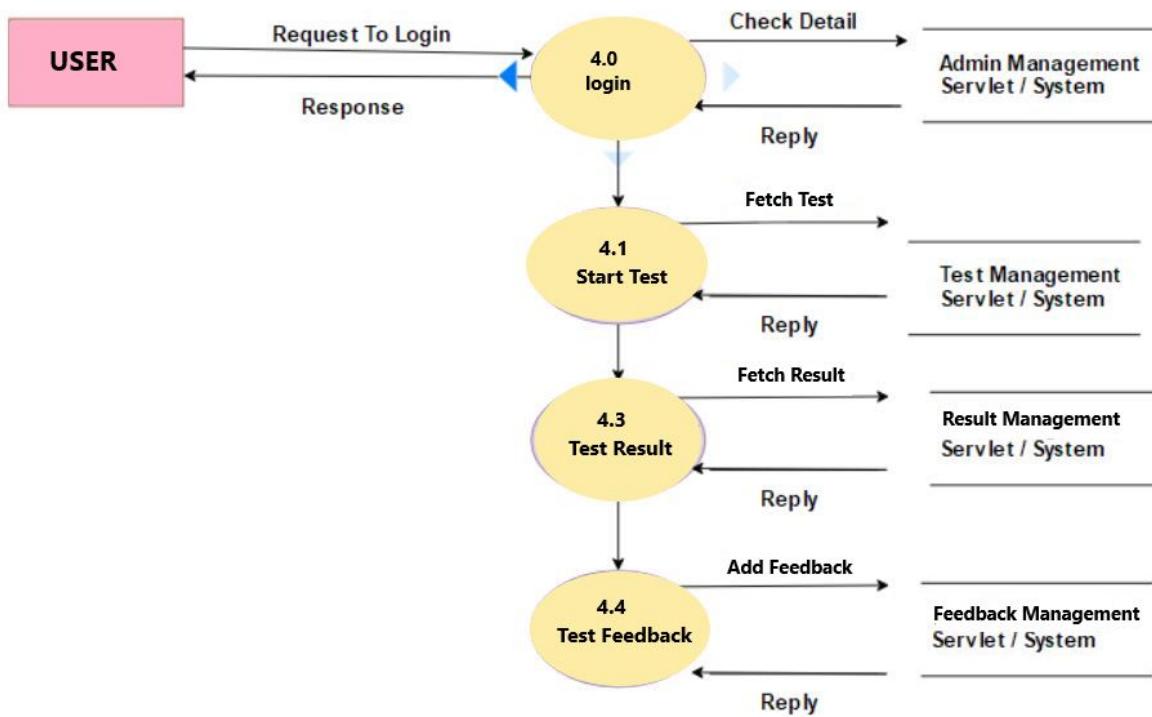


## 2<sup>nd</sup> LEVEL DFD USER --5.0

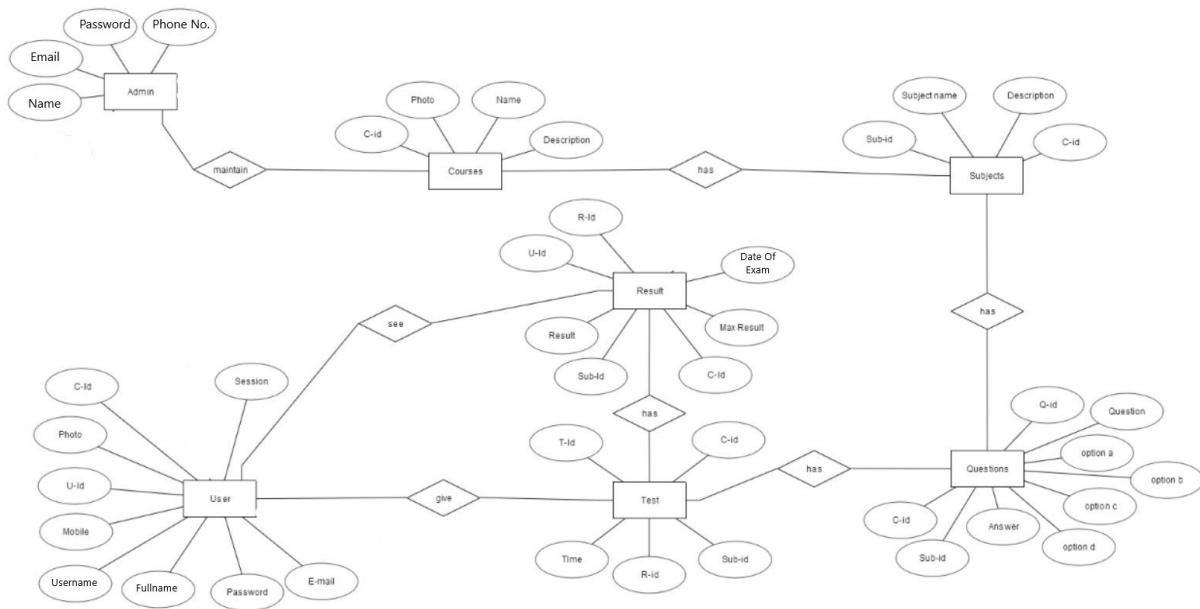


## 2<sup>nd</sup> LEVEL DFD USER --6.0 & 7.0 & 8.0



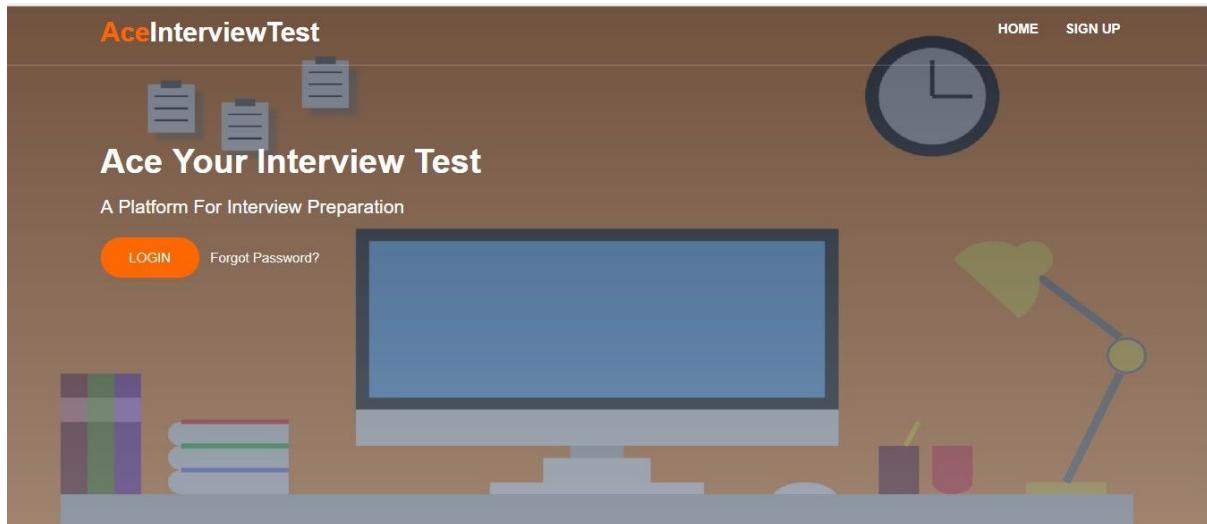


## E-R Diagram :-



## 6.5 Snapshots :

### AceInterviewTest



#### Welcome to AceInterviewTest

A Platform For Interview Preparation



##### Give Online Tests

Choose among courses and their sections to practice. Give full course wise and section wise test.



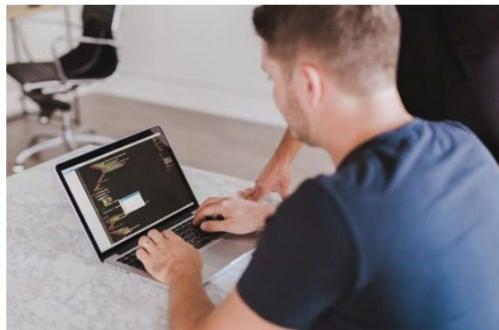
##### Timing Based Tests

Improve your efficiency for giving timing interview tests of software companies.



##### Review Test Performance

Get complete performance analysis of each and every test.



## ADMIN INTERFACE:

### Admin Login

Admin will login on this page.



The background of the login form is filled with binary code (0s and 1s) in a light gray color.

Admin Login

Enter Name

Enter Password

[Forgot Password](#) [Login](#)

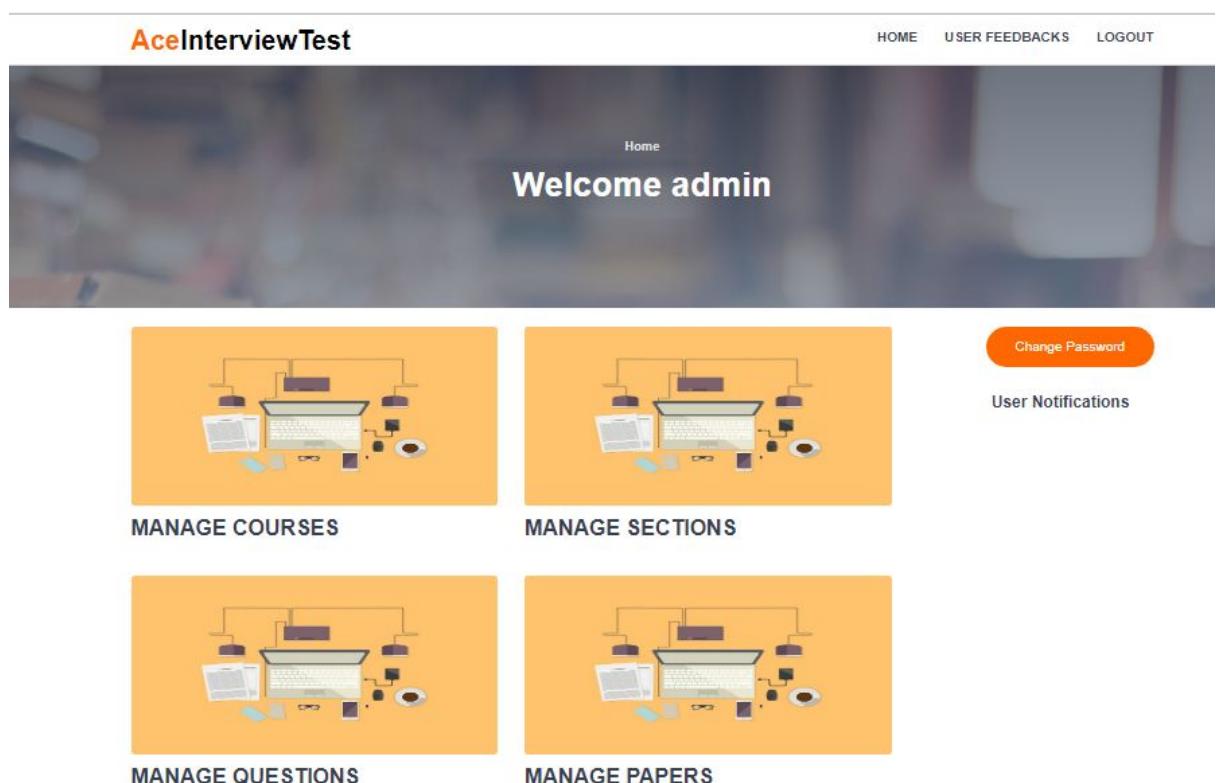
**AceInterviewTest**

A Platform For Interview Preparation

This Site Is Made By Arshdeep Singh | ☎ Mobile no. : +91-99148-24248

[Locate Us](#)

After login, this page will open where admin will be able to perform various tasks.



The dashboard features a header with the site name "AceInterviewTest" and navigation links for "HOME", "USER FEEDBACKS", and "LOGOUT". The main area has a blurred background image of a computer setup. A "Welcome admin" message is displayed prominently. Below the welcome message are five management icons arranged in two rows of three. The first row contains "MANAGE COURSES" and "MANAGE SECTIONS" with a central "User Notifications" button. The second row contains "MANAGE QUESTIONS" and "MANAGE PAPERS" with a central "Change Password" button.

Home

Welcome admin

HOME USER FEEDBACKS LOGOUT

Change Password

User Notifications

MANAGE COURSES

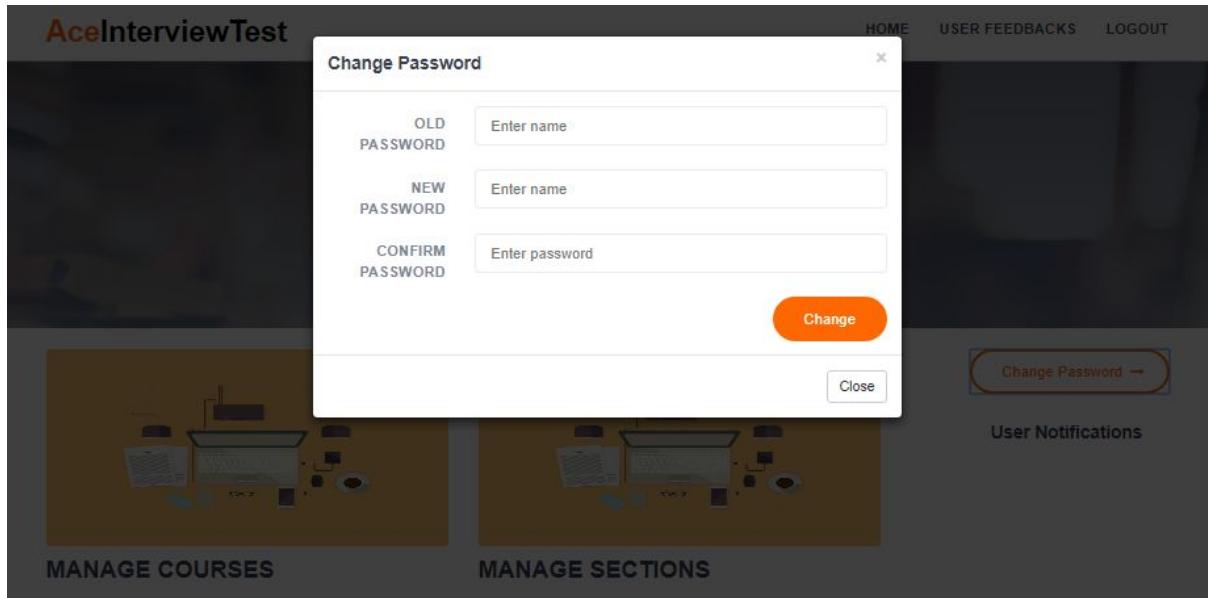
MANAGE SECTIONS

MANAGE QUESTIONS

MANAGE PAPERS

## Change Password

After clicking on change password ,a modal will open where admin will be able to change his password.



## Manage Courses

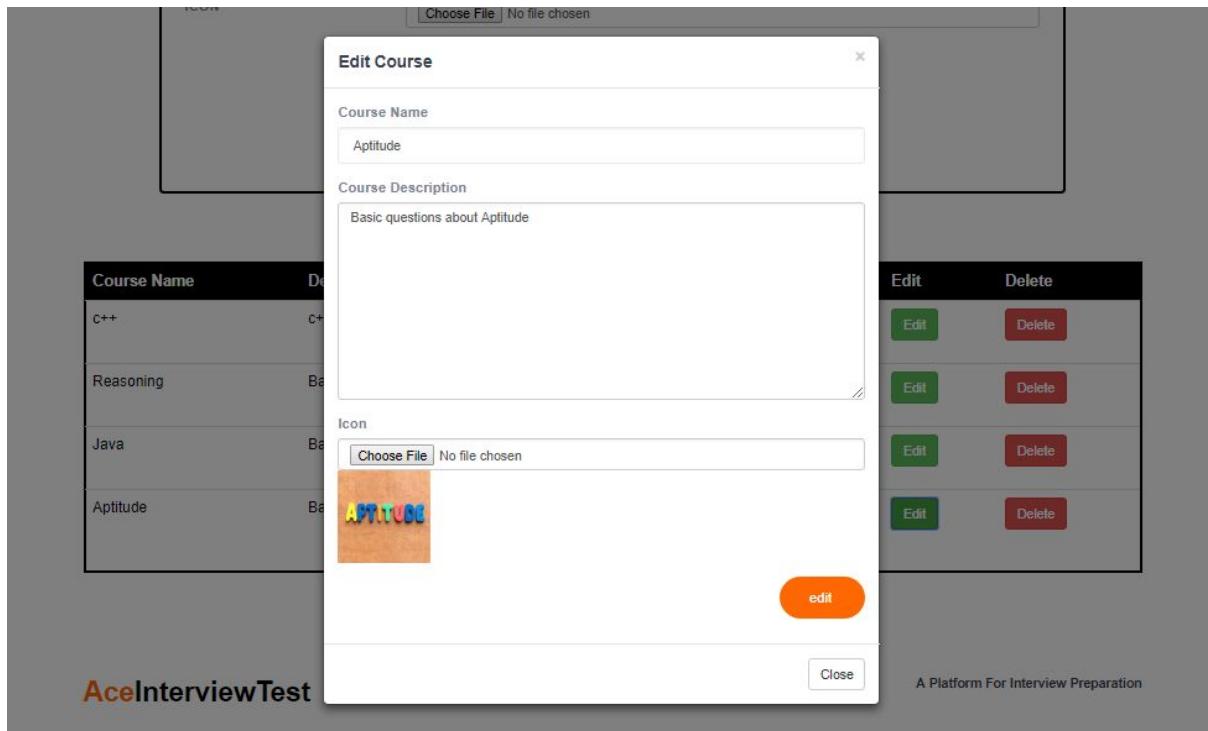
Here admin will be able to add,edit and delete courses.

The screenshot shows the "Courses" management section. On the left, there's a form for adding a new course: "Course Name" (python), "Course Description" (programming language), and "ICON" (choose file, python1.jpg, showing a Python logo icon). Below the form is an "Add course" button. To the right is a table titled "Courses" listing four existing courses:

Course Name	Description	Icon	Edit	Delete
C++	C++	C++	Edit	Delete
Reasoning	Basic questions regarding reasoning	REASONING	Edit	Delete
Java	Basic questions about Java	Java	Edit	Delete
Aptitude	Basic questions about Aptitude	APTITUDE	Edit	Delete

## Edit Courses

After clicking on edit button,a modal will open where admin will be able to change the present details of the course.



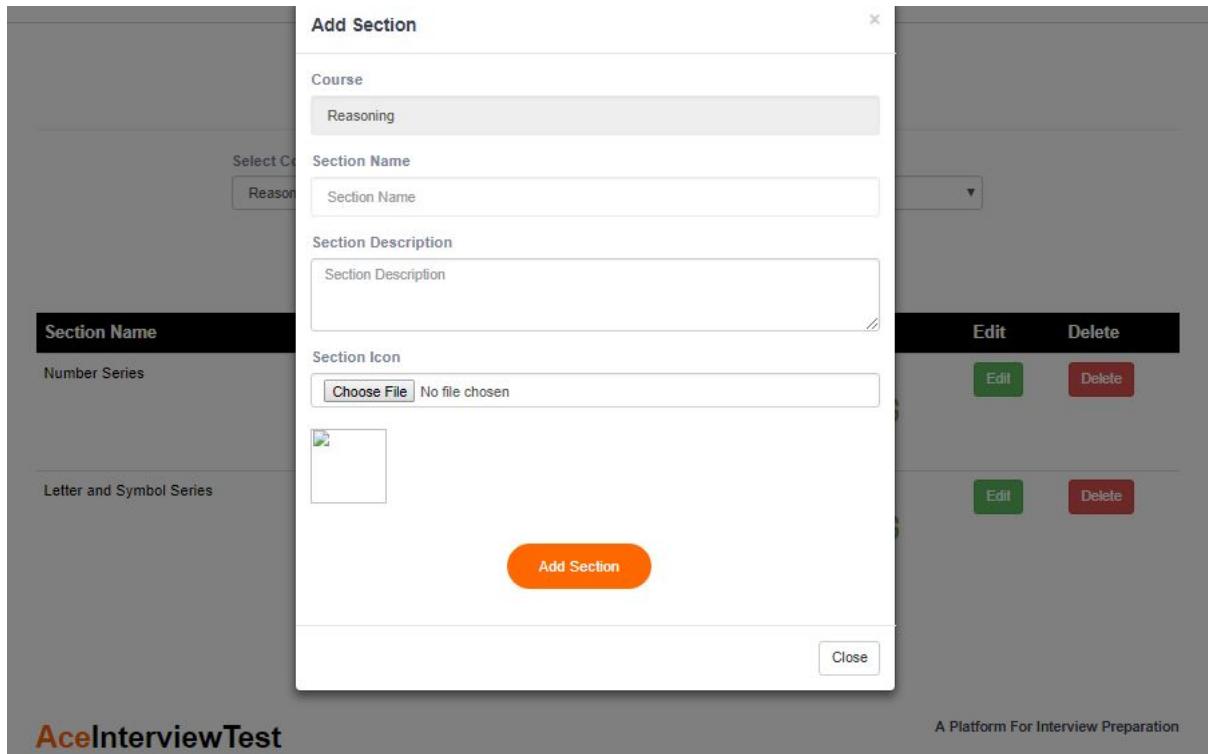
## Manage Sections

Here admin will be able to add,edit and delete sections.

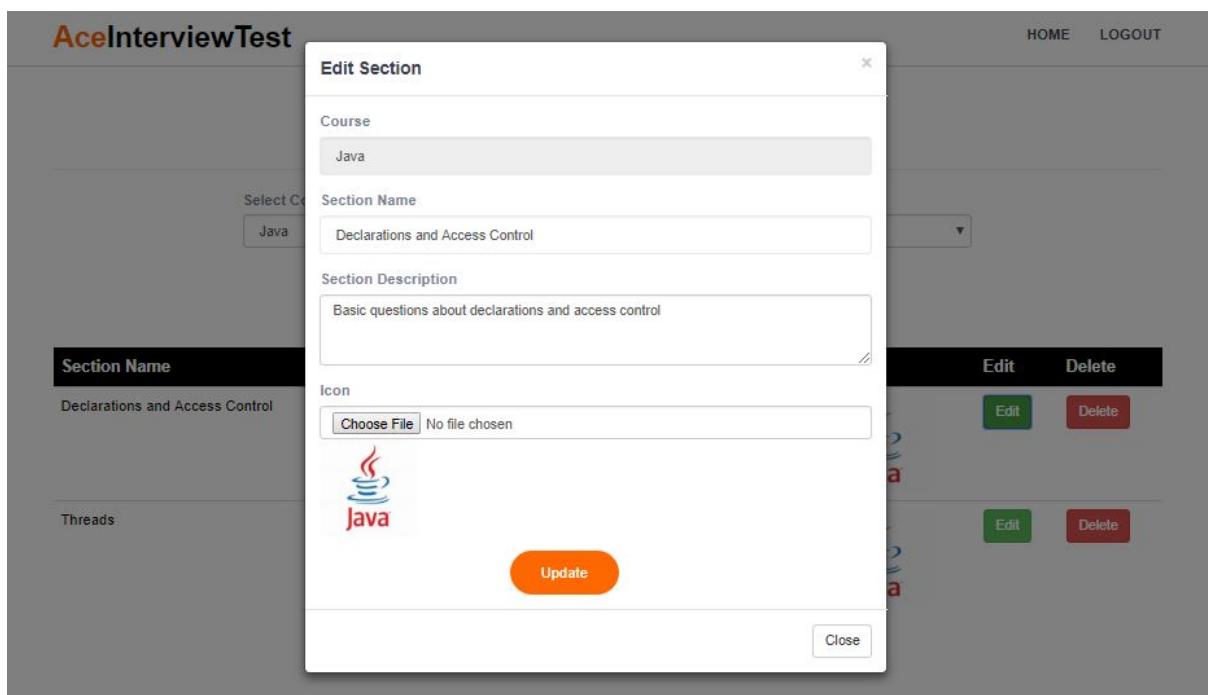
The screenshot shows a page titled "Manage Sections/Chapters". At the top, there is a "Select Course" dropdown menu set to "Java". Below it is an "Add Section" button. The main content area displays a table with columns: "Section Name", "Section Description", "Icon", "Edit", and "Delete". The table has two rows. The first row corresponds to the Java course and contains the section "Declarations and Access Control" with the description "Basic questions about declarations and access control". The second row corresponds to the Java course and contains the section "Threads" with the description "Basic questions about Threads". Each row includes a "Java" icon and "Edit" and "Delete" buttons. The footer of the page includes the text "AceInterviewTest" and "A Platform For Interview Preparation".

Section Name	Section Description	Icon	Edit	Delete
Declarations and Access Control	Basic questions about declarations and access control		<a href="#">Edit</a>	<a href="#">Delete</a>
Threads	Basic questions about Threads		<a href="#">Edit</a>	<a href="#">Delete</a>

**Add section** \_After clicking on **add section button** a modal will open where admin can add new section.



**Edit sections** \_After clicking on **edit button**,a modal will open where admin will be able to change the present details of the sections.



## Manage Questions

Here admin will be able to add,edit and delete questions.

AceInterviewTest

HOME LOGOUT

### MANAGE QUESTIONS

ADD QUESTION

**View Questions :**

Select Course  
Aptitude

Select Section  
Time and Distance

QUESTION TITLE	QUESTION IMAGE	Edit	Delete
A person crosses a 600 m long street in 5 minutes. What is his speed in km per hour?	-----	Edit	Delete
An aeroplane covers a certain distance at a speed of 240 kmph in 5 hours. To cover the same distance in 1 hours, it must travel at a speed of:	-----	Edit	Delete
If a person walks at 14 km/hr instead of 10 km/hr, he would have walked 20 km more. The actual distance travelled by him is:	-----	Edit	Delete
A train can travel 50% faster than a car. Both start from point A at the same time and reach point B 75 kms away from A at the same time. On the way, however, the train lost about 12.5 minutes while stopping at the stations. The speed of the car is:	-----	Edit	Delete
Excluding stoppages, the speed of a bus is 54 kmph and including stoppages, it is 45 kmph. For how many minutes does the bus stop per hour?	-----	Edit	Delete
In a flight of 600 km, an aircraft was slowed down due to bad weather. Its average speed for the trip was reduced by 200 km/hr and the time of flight increased by 30 minutes. The duration of the flight is:	-----	Edit	Delete
A man complete a journey in 10 hours. He travels first half of the journey at the rate of 21 km/hr and second half at the rate of 24 km/hr. Find the total journey in km.	-----	Edit	Delete

## Add Questions

After clicking on add section button a modal will open where admin can add new questions.

AceInterviewTest

HOME LOGOUT

### ADD QUESTION

**View Questions :**

Select Course  
Aptitude

Select Section  
Time and Distance

**QUESTION TITLE**

A person crosses a 600 m long street

An aeroplane covers a certain distance travel at a speed of:

If a person walks at 14 km/hr instead

A train can travel 50% faster than a c

Excluding stoppages, the speed of a

In a flight of 600 km, an aircraft was

A man complete a journey in 10 hours

The ratio between the speeds of two

**QUESTION TYPE**

OPTION A.

OPTION B.

OPTION C.

OPTION D.

.ANSWER.

Explanation

Enter Explanation

**SELECT COURSE::**

**SELECT SECTION::**

ADD QUESTION

Close

QUESTION IMAGE	Edit	Delete
-----	Edit	Delete

## Edit Question

After clicking on **edit button**, a modal will open where admin will be able to change the present details of the questions.

The screenshot shows the 'Edit Question' modal on the AceInterviewTest website. The modal has a header 'Edit QUESTION' and a sub-header 'TEXT TYPE QUESTION'. The 'QUESTION TEXT' field contains a math problem about a train's speed relative to a car. Below it are four 'OPTION' fields: A (100 kmph), B (110 kmph), C (120 kmph), and D (130 kmph). An 'ANSWER' field is set to 'C'. The 'Explanation' field contains the steps to solve the problem, leading to the answer  $x = 50$ . At the bottom of the modal is an 'EDIT QUESTION' button. In the background, there's a list of questions with 'Edit' and 'Delete' buttons, and a navigation bar with 'HOME' and 'LOGOUT'.

## Manage Papers

Here admin will be able to add new papers for the users.

The screenshot shows the 'Admin Add Paper' page. It features a form with fields for 'Paper Title' (with a placeholder 'Enter Paper Title'), 'Select File' (with a 'Choose File' button and a message 'No file chosen'), and 'Select Course' (with a dropdown menu showing 'Java'). Below the form is a large orange 'Add Paper' button. Underneath the form is a table titled 'OLD PAPERS' with columns: SNO, Paper Title, File Path, Course Name, and Delete. One row is shown: SNO 1, Paper Title 'Java Practice Paper', File Path 'papers/1527427569953.pdf', Course Name 'Java', and a red 'Delete' button. At the bottom of the page is a footer with links to 'About Us', 'Contact Us', 'Privacy Policy', and 'Terms & Conditions'.

## Manage Feedbacks

Here admin can view all the feedbacks given by the users. Admin will also view average subject rating and average course rating of the taken tests respectively.

### User Test Feedbacks

Course-Wise Test Average User Rating

SNO.	COURSE NAME	AVERAGE RATING
1	Aptitude	1
2	Java	4

Section-Wise Test Average User Rating

SNO.	SECTION NAME(COURSE CATEGORY)	AVERAGE RATING
1	Simple Interest (Aptitude)	5
2	Threads (Java)	3

User Feedback History

SNO.	RESULT ID	TESTDATE	EMAIL	RATING	COMMENT
1	69	2018/05/27 22:54:20	12.arshdeep.singh@gmail.com	★★★★★	Test was good
2	70	2018/05/27 22:57:33	12.arshdeep.singh@gmail.com	★★★★★	test was good
3	71	2018/05/27 23:00:52	12.arshdeep.singh@gmail.com	★★★★★	good
4	72	2018/05/27 23:05:42	12.arshdeep.singh@gmail.com	★★★★★	test was okay
5	73	2018/05/27 23:57:44	arshdeepsingh323@gmail.com	★★★★★	test was great
6	74	2018/05/28 00:00:28	arshdeepsingh323@gmail.com	★★★★★	not good

## Manage Queries

Here admin can view all the notifications given by the users. Admin can reply to the messages as well as delete them.

### User Messages

User Notifications	Reply	Delete
NAME : arsh EMAIL : 12.arshdeep.singh@gmail.com SUBJECT : Query MESSAGE : This is a first query	<a href="#">Reply</a>	<a href="#">Delete</a>
NAME : User EMAIL : arshdeepsingh323@gmail.com SUBJECT : query subject MESSAGE : it is a query	<a href="#">Reply</a>	<a href="#">Delete</a>

## USER INTERFACE:

### User Signup

Here new user can sign up in order to give exams.

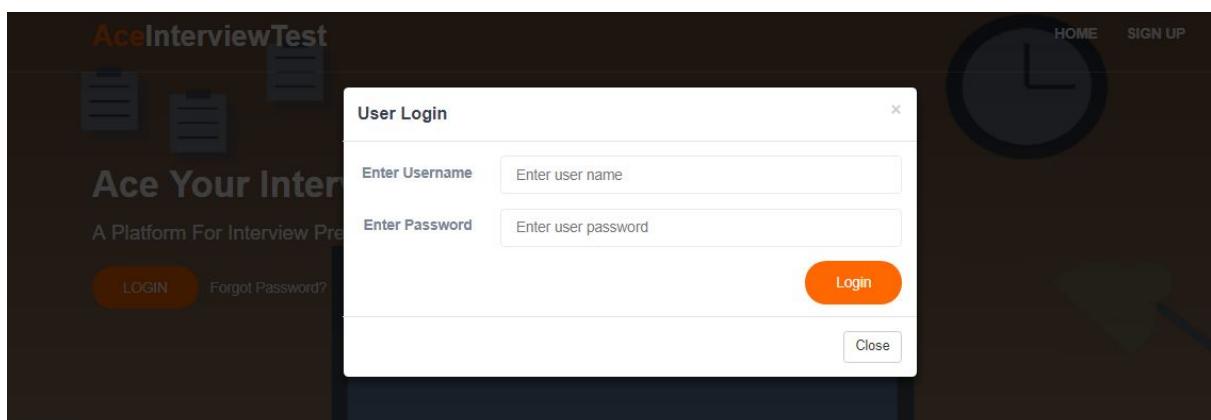


### User Sign-up

Enter Full Name	<input type="text" value="Enter Full Name"/>
Enter Email	<input type="text" value="Enter email"/>
Default Username	
Re-Enter Email	<input type="text" value="Re-Enter email"/>
Enter Password	<input type="text" value="Enter Password"/>
Re-Enter Password	<input type="text" value="Re-Enter Password"/>
Enter Phone Number	+91 <input type="text"/>
<input style="background-color: orange; color: white; border-radius: 50%; padding: 5px 10px; border: none; font-weight: bold; font-size: 10px; width: 100px; height: 30px; margin-top: 10px;" type="button" value="Sign-Up"/>	

### User Login

Here already signed in user can Login in order to give exams.



After login, this page will open where user will perform various tasks.

The screenshot shows the homepage of the AceInterviewTest platform. At the top, there's a navigation bar with links for HOME, START TEST, TEST HISTORY, PROFILE, and LOGOUT. The main header "AceInterviewTest" is displayed in orange. Below the header, a banner says "Welcome UserOne" and shows a user logged in with the email "12.arshdeep.singh@gmail.com". On the left, there's an illustration of a person at a desk with multiple monitors, labeled "TAKE TEST". On the right, there are links for "View Ranks" (with a laptop icon), "Download Papers" (with a document icon), and "Query?" followed by "Contact Us".

## Start Test

After clicking on **start test**, this particular page will open where user can give test course wise or section wise

This screenshot shows the "Start Online Test" page. At the top, there are links for HOME and LOGOUT. The main title "Start Online Test" is centered. Below the title, there are two options: "SECTION TEST" and "COURSE TEST", each accompanied by an image of a person working on a laptop. To the right, there's a sidebar titled "Course Categories" with a list of options: C++, REASONING, JAVA, and APTITUDE.

## Section Wise Test

Here user will select a course and then section and then after clicking on **start test** button, test will start.

AceInterviewTest	ONLINE TEST	RETURN
Select Course -Select Course--		▼
Select Section 		▼
<b>START TEST</b>		

## Course Test

Here user will select a course and then after clicking **on start test** button, test will start.

AceInterviewTest	ONLINE TEST	RETURN
Select Course -Select Course--		▼
<b>START TEST</b>		

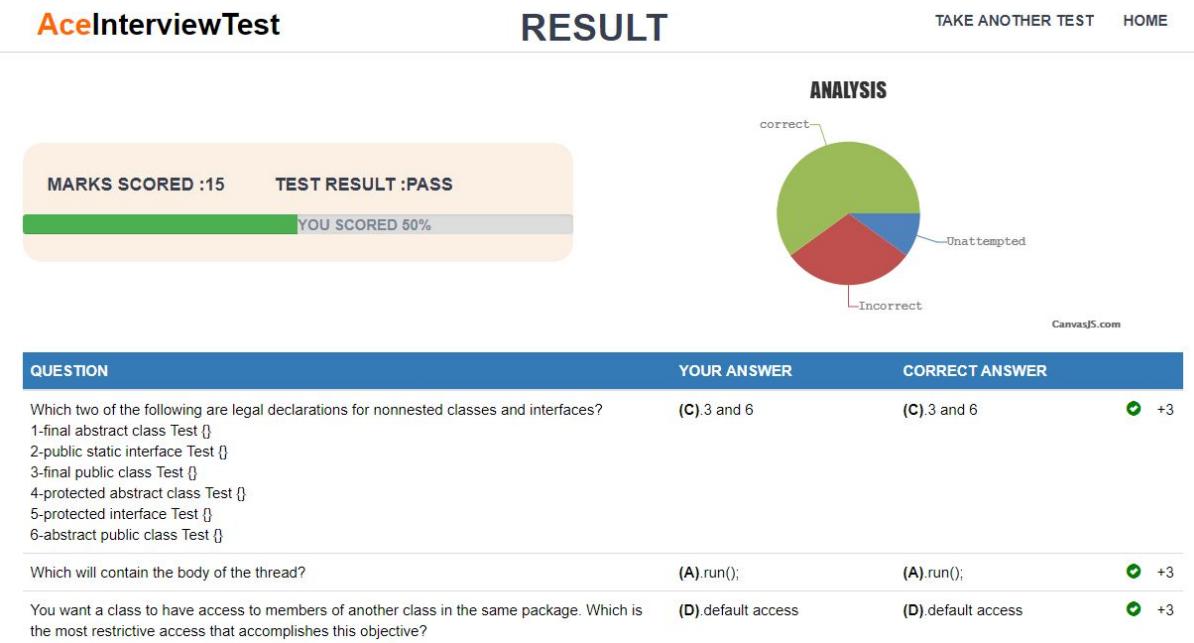
## Online Exam

After clicking on **start test button**, this particular page will open. A timer will start and within that time period user will have to complete the test. There are two more buttons, one is **exit test** and other is **submit test**. On clicking **exit test** user will go back to the homepage and result will not be, ON clicking **submit test** a result page will open where user will get to know about his marks and all the correct and in correct answers.

AceInterviewTest	ONLINE TEST	Exit Test   Submit Test
2 : 33		
<b>Question : 2</b>		
A sum of Rs. 12,500 amounts to Rs. 15,500 in 4 years at the rate of simple interest. What is the rate of interest?		
A <input type="radio"/> 3% B <input type="radio"/> 4% C <input type="radio"/> 5% D <input type="radio"/> 6%		
<b>Clear Response</b>		
<b>+</b>		<b>→</b>

## Result

After clicking on submit test button, a result page will open where user will see it's result which includes his total marks ,correct answer,incorrect answer and unattempted questions.a progress bar will run according to users marks and a pie chart will be shown.There is a feedback button also which will take user to a feedback page.



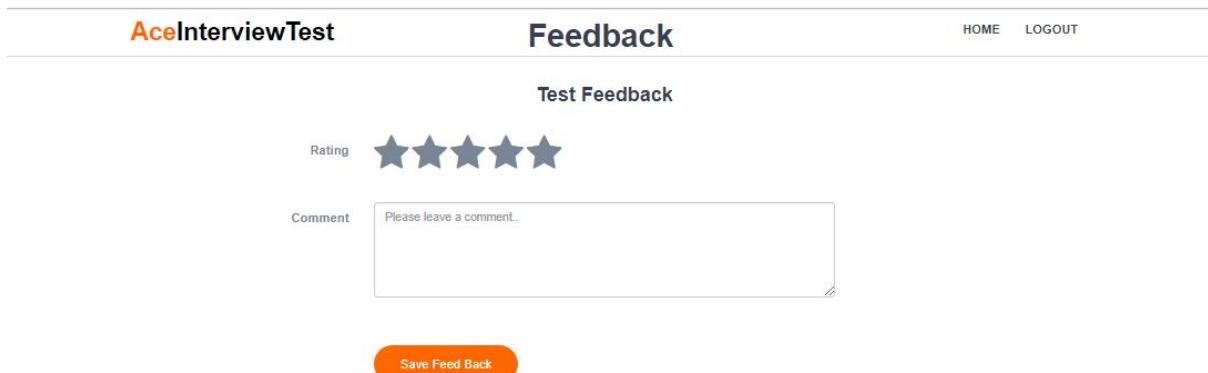
continued..

2-float f2[] = new float[]; 3-float[ ]f1 = new float[3]; 4-float f3[] = new float[3]; 5-float f5[] = {1.0f, 2.0f, 2.0f};			
Which of the following will directly stop the execution of a Thread?	(A).wait()	(A).wait()	+3
Assume the following method is properly synchronized and called from a thread A on an object B: wait(2000); After calling this method, when will the thread A become a candidate to get another turn at the CPU?	(A) After thread A is notified, or after two seconds.	(A) After thread A is notified, or after two seconds.	+3
public class MyRunnable implements Runnable { public void run() { // some code here } } which of these will create and start this thread?	(A).new Runnable(MyRunnable).start();	(C).new Thread(new MyRunnable()).start();	-1
Which cause a compiler error?	.	(B).int [ ][ ] scores = {2,7,6}, (9,3,45);	0

SEND FEEDBACK

## Feedback

Here user will give his feedback about the exam.



A screenshot of a feedback form page. At the top, there's a header with the logo "AceInterviewTest" and the word "Feedback". On the right side of the header are links for "HOME" and "LOGOUT". Below the header, the title "Test Feedback" is centered. To the left of the title is a "Rating" section showing five blue stars. To the right of the rating is a large text input field with the placeholder "Please leave a comment..". At the bottom of the form is an orange "Save Feed Back" button.

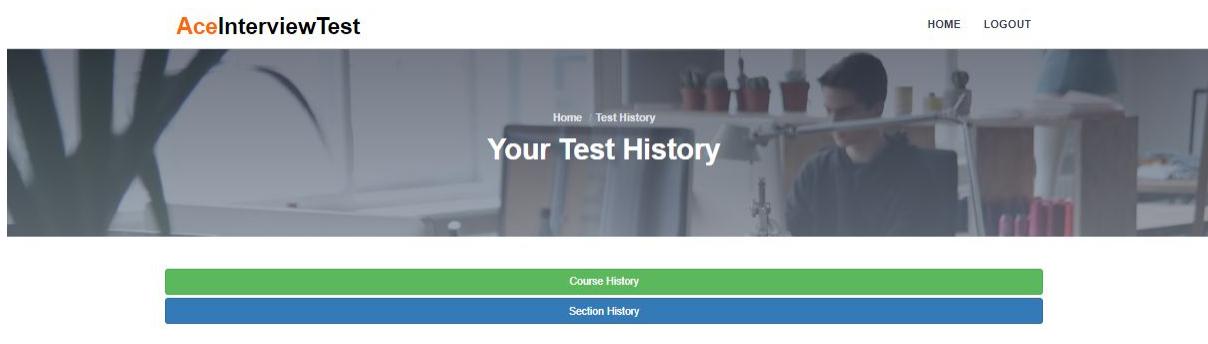
**AceInterviewTest** A Platform For Interview Preparation

This Site Is Made By Arshdeep Singh | ☎ Mobile no. : +91-99148-24248

📍 Locate Us

## Check Results

On clicking **check result** button user will go to this page where he will be able to see his old results both section wise and course wise



## Section Test Result

AceInterviewTest

HOME LOGOUT

Your Test History

Course History

Section History

TEST ID	TEST ID	TEST SECTION	TEST COURSE	MARKS SCORED	FINAL RESULT	SHOW RESULT
69	2018/05/27 22:54:20	Threads	Java	13	PASS	Show Detail Result
70	2018/05/27 22:57:33	Simple Interest	Aptitude	21	PASS	Show Detail Result

## Course Test Result

AceInterviewTest

HOME LOGOUT

Your Test History

Course History

Section History

TEST ID	TEST DATE	COURSE	MARKS SCORED	FINAL RESULT	SHOW RESULT
71	2018/05/27 23:00:52	Java	15	PASS	Show Details Result
72	2018/05/27 23:05:42	Aptitude	14	PASS	Show Details Result
75	2018/05/28 01:48:46	Reasoning	-2	FAIL	Show Details Result

## Show Details

On clicking **show details** button ,user will get to know the details of his test.

TEST DETAILS					
TEST ID	QUESTION NUMBER	QUESTION TITLE	USER ANSWER	CORRECT ANSWER	EXPLANATION
69	1	Which two of the following methods are defined in class 1-1-Thread? 1-start() 2-wait() 3-notify() 4-notifyAll() 5-run() 6-terminate()	[A] 1 and 4	[A] 1 and 4	<a href="#">Show Explanation</a>
69	2	Which of the following will not directly cause a thread to stop?	[A] notify()	[A] notify()	<a href="#">Show Explanation</a>
69	3	Which will contain the body of the thread?	[B] start();	[A] run();	<a href="#">Show Explanation</a>
69	4	Which method must be defined by a class implementing the java.lang.Runnable interface?	[B] public void run()	[B] public void run()	<a href="#">Show Explanation</a>
69	5	public class MyRunnable implements Runnable { public void run() { // some code here } } which of these will create and start this thread?	[C] new Thread(new MyRunnable()).start();	[C] new Thread(new MyRunnable()).start();	<a href="#">Show Explanation</a>
69	6	Which three are methods of the Object class? 1-notify() 2-notifyAll() 3-isInterrupted() 4-synchronized() 5-interrupt() 6-wait(long msecs);	[A] 1, 2, 4	[C] 1, 2, 6	<a href="#">Show Explanation</a>

## Show Explanation:

On clicking **show explanation** button ,user will get to know the explanation of a particular question

QUESTION NUMBER	QUESTION TITLE	USER ANSWER	CORRECT ANSWER	EXPLANATION
	Explanation	[A] 1 and 4	[A] 1 and 4	<a href="#">Show Explanation</a>
	EXPLANATION			
	(1) and (4). Only start() and run() are defined by the Thread class. (2) and (3) are incorrect because they are methods of the Object class. (5) is incorrect because there's no such method in any thread-related class.			
		<a href="#">Close</a>		
5	public class MyRunnable implements Runnable { public void run() { // some code here } }	[A] notify()  [B] start();  [B] public void run()	[A] notify()  [A] run();  [B] public void run()	<a href="#">Show Explanation</a>  <a href="#">Show Explanation</a>  <a href="#">Show Explanation</a>
			[C] new Thread(new MyRunnable()).start();	<a href="#">Show Explanation</a>

## Ranking:

On clicking **ranking** button, this particular page will open where user will see his ranking according to every course test he performed.

The screenshot shows a table titled "View Rank List Of All Courses". At the top left, there is a "Select Course" dropdown menu set to "Aptitude". The table has columns: RANK, USER EMAIL, MARKS SCORED, TOTAL MARKS, and PERCENTAGE. The data is as follows:

RANK	USER EMAIL	MARKS SCORED	TOTAL MARKS	PERCENTAGE
1	12.arshdeep.singh@gmail.com	14	30	28%
2	arshdeepsingh323@gmail.com	9	30	18%
3	12.arshdeep.singh@gmail.com	6	30	12%
4	arshdeepsingh323@gmail.com	0	30	0%
5	12.arshdeep.singh@gmail.com	0	30	0%

Legend: ■ Your Current Rank (blue), ■ Previous Scores (orange)

## Download Papers

Here user will be able to download all the test papers added by the admin.

The screenshot shows a table titled "Download Papers For Practice". At the top left, there is a logo "AceInterviewTest" and at the top right, there are links for "HOME" and "LOGOUT". The table has columns: PAPER TITLE and PAPER CATEGORY. The data is as follows:

PAPER TITLE	PAPER CATEGORY	DOWNLOAD
Java practice paper	Java	<a href="#">Download</a>
Aptitude Practice Set 1	Aptitude	<a href="#">Download</a>
Aptitude Practice Set 2	Aptitude	<a href="#">Download</a>

# Profile

## View

The screenshot shows a profile view page. At the top left is the text "AceInterviewTest". At the top right are links for "HOME" and "LOGOUT". Below this is a header "My Profile". On the left, there is a placeholder for a profile picture with the text "YOUR PROFILE", "EDIT PROFILE", and "CHOOSE PROFILE IMAGE". To the right, a box contains the user's information: "Full Name : UserTwo", "User Email : arshdeepsingh323@gmail.com", "User Name : arshdeepsingh323@gmail.com", and "Phone Number : 9999988888".

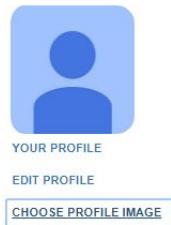
## Edit

The screenshot shows a profile edit page. On the left, there is a placeholder for a profile picture with the text "YOUR PROFILE", "EDIT PROFILE" (which is highlighted with a blue border), and "CHOOSE PROFILE IMAGE". To the right, a form is displayed with the following fields:

- Enter Full Name: UserTwo
- Enter Email: arshdeepsingh323@gmail.com
- Default Username: (empty)
- Re-Enter Email: arshdeepsingh323@gmail.com
- Enter Password: (redacted)
- Re-Enter Password: (redacted)
- Enter Phone Number: +91 9999988888

A large orange "SAVE" button is at the bottom right of the form.

## Photo Upload



YOUR PROFILE

EDIT PROFILE

[CHOOSE PROFILE IMAGE](#)

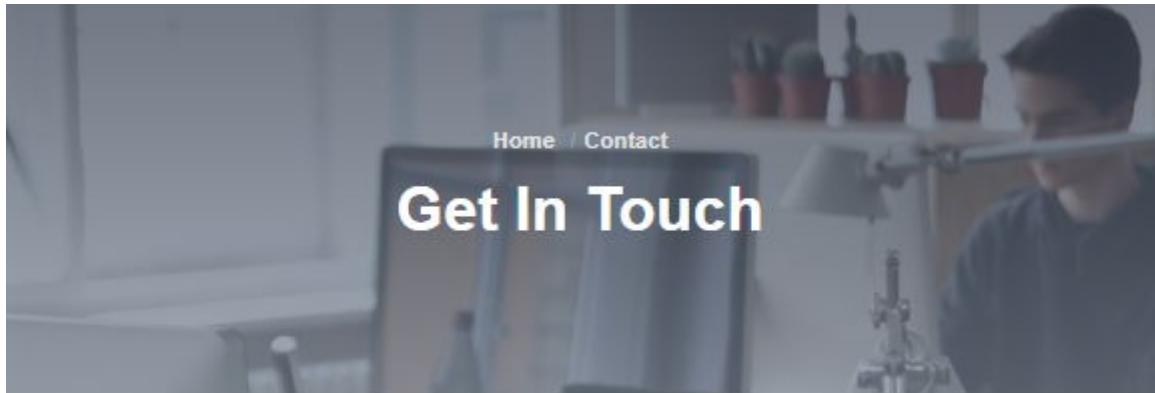
QUESTION IMAGE

Choose File No file chosen



[UPLOAD](#)

## Contact Admin



User Name

User Email

Subject

Message

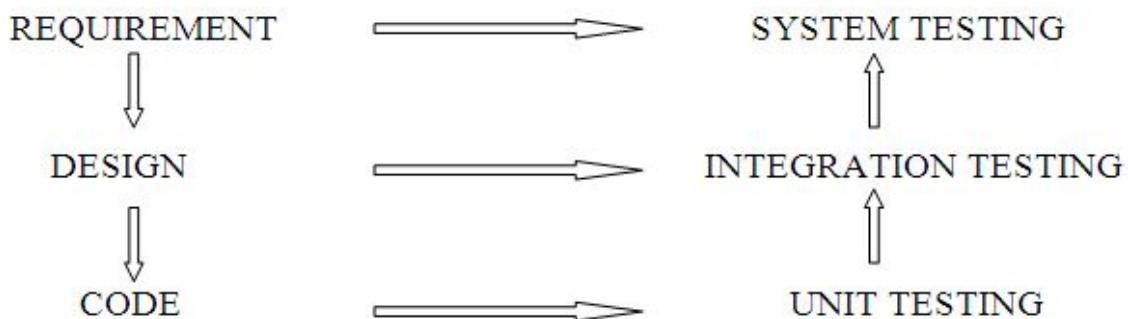
[Send Message](#)

## 6.6 Testing :

**Testing** is the major quality control measure employed during software development. **Testing** is the process of executing the program with the intent of finding an error. No piece of code is completely ready unless it has been fully tested. This stage is very important. At this stage it is verified whether the code developed meet the requirement specification or not. However, all validation is also checked in the testing stage.

**Our project includes the following types of testing:**

- ❖ Unit testing.
- ❖ Integration testing.
- ❖ System testing.



**UNIT TESTING**\_The Unit testing is the first level of testing in our project. In this testing, we have tested the different modules against the specification produced for the modules. Unit testing is essential for the verification of the code produced during the coding phase and hence the goal is the internal logic of the modules.

**INTEGRATION TESTING**\_In this, many tested modules are combined into subsystem, which are then tested. The goal here is to see if the modules can be integrated properly, the emphasis be considered as testing the design, and hence the emphasis on testing module interaction.

**SYSTEM TESTING**\_Here the entire software system is tested. The reference document for this process is requirement document, and the goal is to see if the software meets its requirements. This is essentially a validation exercise.

## VERIFICATION AND VALIDATION

**Verification** is the process of evaluating software to determine whether the products of a given development phase satisfy the conditions imposed at the start of that phase.

“Are we building the product right?”

**Validation** is the process of evaluating software during or at the end of development process to determine whether it satisfies specified condition.

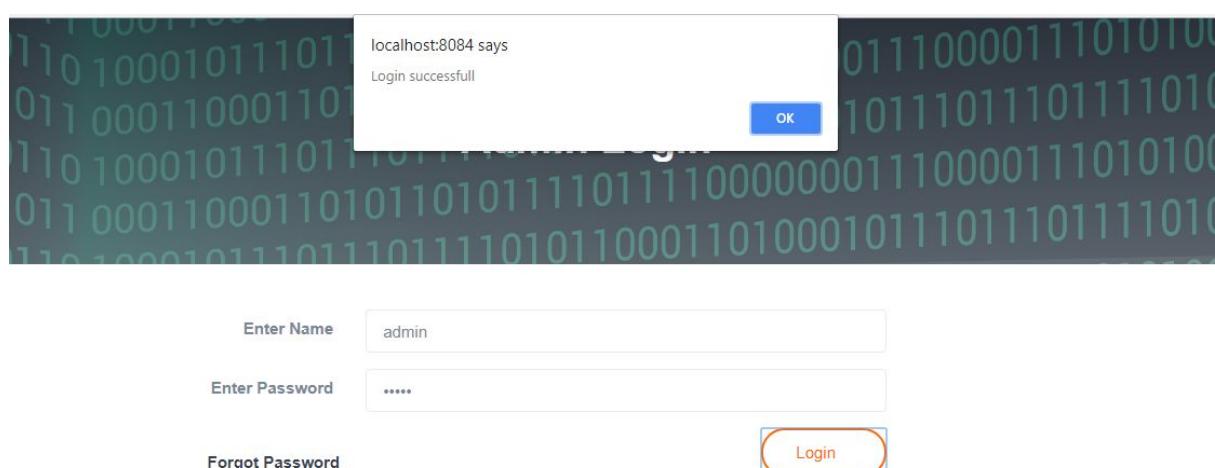
“Are we building the right product?”

## Verification and validation checks of our project

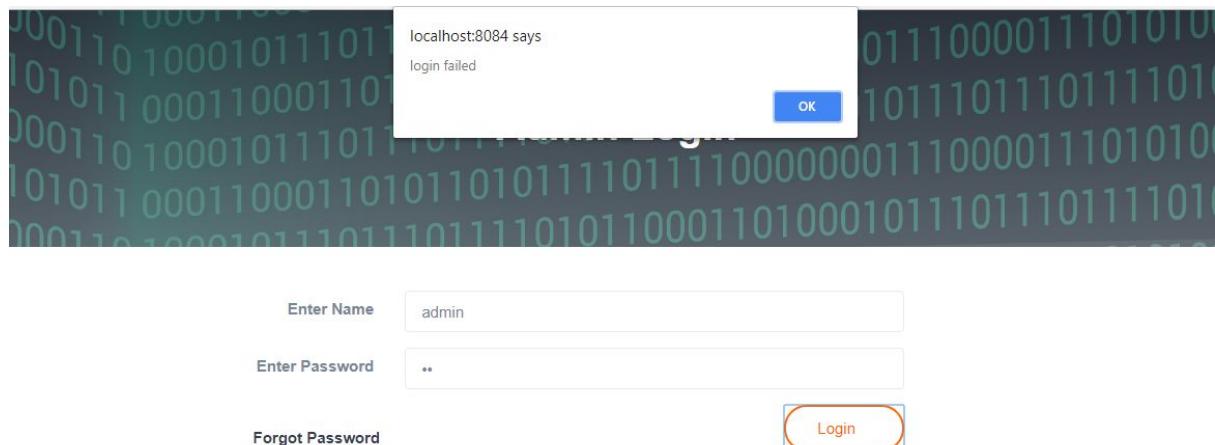
### Admin Interface:

#### Admin Login

- If admin will add both username and password correctly then he will be able to login and a alert will be shown "login successful".

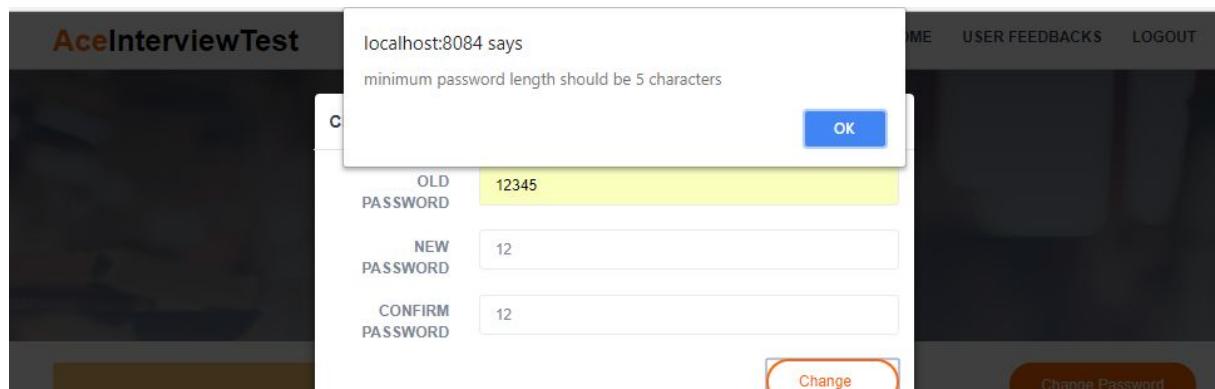


- If admin will add either username or password incorrectly then he will not be able to login and an alert will be shown “login failed”.

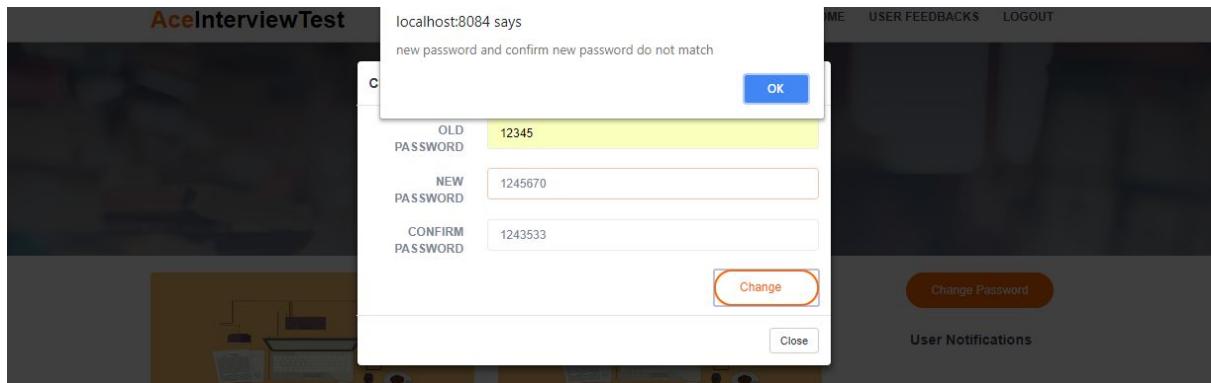


## Change Password

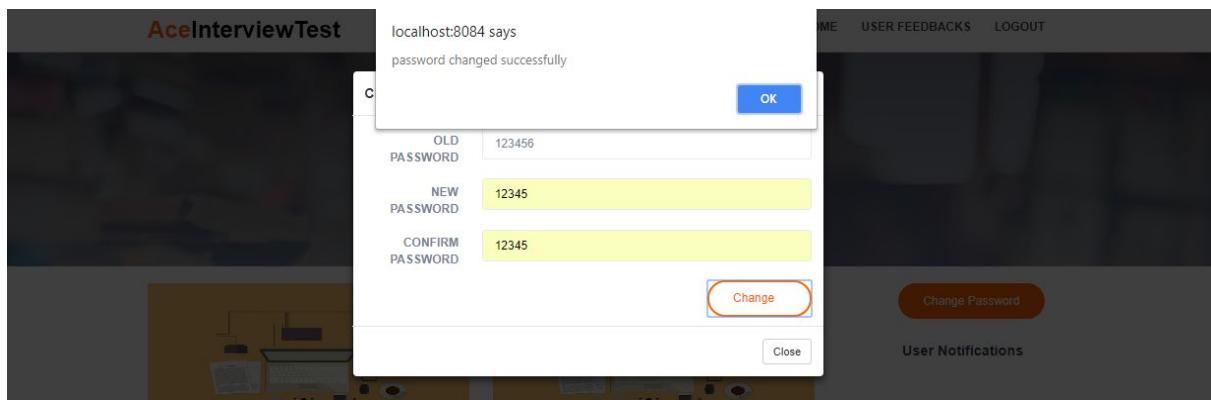
If the length of new password will be lesser than equal to 4 characters then it will show an alert that “length of password must be greater than equal to 4 characters”. If any field out of old password,new password or confirm password will be missing then it will show an alert “enter confirm/old/new password”.



If new password and confirm password will not match then it will show an alert “new password and confirm password does not match”.



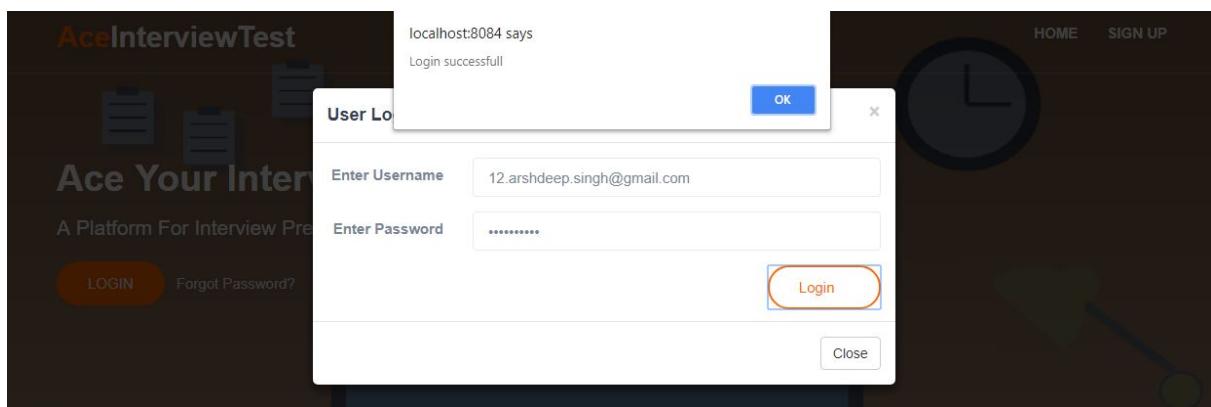
If admin will add all the fields correctly then the password will be changed with a message “password changed successfully”.



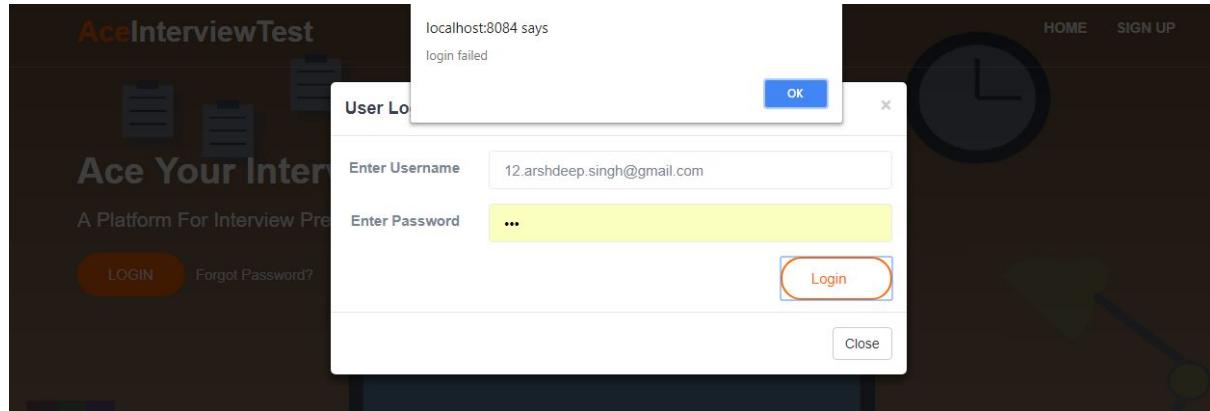
## User Interface:

### User Login

If user will add email and password correctly then login will be successful and message will be shown “login successful”.



If user will add email and password incorrectly then login will be successful and message will be shown “login failed”.



## User Signup

If user will add any numerical value in name then alert will be shown "numeric values not allowed in name".

A screenshot of a "User Sign-up" form. The form includes fields for "Enter Full Name" (containing the value "12"), "Enter Email" (value "a@gmail.com"), "Default Username" (value "a@gmail.com"), "Re-Enter Email" (value "a@gmail.com"), "Enter Password" (value "..."), "Re-Enter Password" (value "..."), and "Enter Phone Number" (value "+91 9999998888"). A red "Sign-Up" button is at the bottom. An error message box is displayed above the "Enter Full Name" field, stating "localhost:8084 says Full name should contain only alphabets !!".

When emails do not match

### User Sign-up

Enter Full Name	12
Enter Email Default Username	a@gmail.com
Re-Enter Email	a@gmail Emails do not match!
Enter Password	***
Re-Enter Password	***
Enter Phone Number	+91 9999988888

**Sign-Up**

When user chooses a weak password

### User Sign-up

Enter Full Name	12
Enter Email Default Username	a@gmail.com
Re-Enter Email	a@gmail Emails do not match
Enter Password	.. <b>Weak</b>
Re-Enter Password	***
Enter Phone Number	+91 9999988888

Note :

minimum length must be 9 digits comprising upper, lower case alphabets [a-z] [A-Z], digits [0-9], special characters { \$@!%#?& } only !!

**Sign-Up**

When passwords do not match

### User Sign-up

Enter Full Name	12
Enter Email Default Username	a@gmail.com
Re-Enter Email	a@gmail Emails do not match!
Enter Password	.....
Re-Enter Password	..... Passwords do not match!
Enter Phone Number	+91 9999988888

**Sign-Up**

When user enter alphabets or special characters in mobile number.

The screenshot shows a 'User Sign-up' form with the following fields:

- Enter Full Name: user (highlighted with a red box)
- Enter Email: a@gmail.com
- Default Username: a@gmail.com
- Re-Enter Email: a@gmail.com
- Enter Password: \*\*\*\*\*
- Re-Enter Password: \*\*\*\*\*
- Enter Phone Number: +91 abcd (highlighted with a red box)
- Sign-Up button

A modal window titled 'localhost:8084 says' displays the error message: 'invalid phone number !!'. An 'OK' button is at the bottom right of the modal.

## Database Snapshots

### ADMIN TABLE

The screenshot shows the MySQL Workbench interface with the 'admin' table selected. The query editor contains the SQL command: `SELECT * FROM schema1.admin;`. The result grid displays the following data:

Username	Password	Email	Phone
admin	12345	3arsh12s@gmail.com	9914824248

### COURSES TABLE

The screenshot shows the MySQL Workbench interface with the 'courses' table selected. The query editor contains the SQL command: `SELECT * FROM schema1.courses;`. The result grid displays the following data:

Coursid	cname	descript	icon
2	c++	c++	my_uploaded_files/1526924774433.jpg
4	Reasoning	Basic questions regarding reasoning	my_uploaded_files/1526925007563.jpg
6	Java	Basic questions about Java	my_uploaded_files/1526925021958.jpg
7	Aptitude	Basic questions about Aptitude	my_uploaded_files/1526925040395.jpg

## SECTIONS TABLE

The screenshot shows the MySQL Workbench interface with the 'Local instance MySQL' connection selected. In the Navigator pane, under the schema1 database, the 'sections' table is selected. The main area displays the results of the query: 'SELECT \* FROM schema1.sections;'. The results grid shows 20 rows of data, each representing a section with its ID, name, description, course ID, and icon URL.

SectionID	sname	sdescription	CourseID	Icon
11	Functions	Basic questions about functions	2	myuploads/1526926097400.jpg
12	Objects and Classes	Basic questions about objects and classes	2	myuploads/1526926125760.jpg
13	Number Series	Basic questions about Number Series	4	myuploads/1526926143259.jpg
16	Declarations and Access Control	Basic questions about declarations and access c...	6	myuploads/1526926275157.jpg
17	Threads	Basic questions about Threads	6	myuploads/1526926291571.jpg
18	Letter and Symbol Series	Basic Questions about Letter and Symbol series	4	myuploads/1526926158859.jpg
19	Time and Distance	Basic questions about Time and Distance	7	myuploads/1526926310143.jpg
20	Simple Interest	Basic questions about Simple Interest	7	myuploads/1526926354433.jpg
NULL	NULL	NULL	NULL	NULL

## QUESTIONS TABLE

The screenshot shows the MySQL Workbench interface with the 'Local instance MySQL' connection selected. In the Navigator pane, under the schema1 database, the 'questions' table is selected. The main area displays the results of the query: 'SELECT \* FROM schema1.questions;'. The results grid shows 49 rows of data, each representing a question with its ID, title, and four options (opA, opB, opC, opD), along with the section ID, question image, question type, and explanation.

qid	quesTitle	opA	opB	opC	opD	answer	SectionID	quesImage	quesType	Explanation
32	Which o... int Eu... float E... Both A ... float = Sho... A	11	NULL	TEXT TYP...	TEXT TYP...	No answer description available for this question				
34	Which o... C++ e... We ca... Both A ... We cannot... C	11	NULL	TEXT TYP...	TEXT TYP...	No answer description available for this question				
35	Which o... Overlo... An ove... All argu... A Function... C	11	NULL	TEXT TYP...	TEXT TYP...	No answer description available for this question				
37	Which o... The fir... The mid... All the argu... A	11	NULL	TEXT TYP...	TEXT TYP...	No answer description available for this question				
38	Which o... Default... A func... Default... A default... C	11	NULL	TEXT TYP...	TEXT TYP...	No answer description available for this question				
39	Which o... Constr... Constr... Constr... Constructo... A	11	NULL	TEXT TYP...	TEXT TYP...	No answer description available for this question				
40	Which o... Membe... Static f... Virtual f... Both B and C C	11	NULL	TEXT TYP...	TEXT TYP...	No answer description available for this question				
41	Which o... int Su... int Su... int Sum... Both B and... D	11	NULL	TEXT TYP...	TEXT TYP...	No answer description available for this question				
43	Where t... Functi... Functi... Functio... Both B or C C	11	NULL	TEXT TYP...	TEXT TYP...	No answer description available for this question				
44	Which o... The d... C+++al... Both A ... C+++does ... D	11	NULL	TEXT TYP...	TEXT TYP...	No answer description available for this question				
45	Which o... Only o... Minimu... All the ... No param... C	11	NULL	TEXT TYP...	TEXT TYP...	No answer description available for this question				
46	Which o... A defa... We ca... We can... Default arg... B	11	NULL	TEXT TYP...	TEXT TYP...	No answer description available for this question				
47	Which o... Overlo... Overlo... Overlo... Overloade... C	11	NULL	TEXT TYP...	TEXT TYP...	No answer description available for this question				
48	Which o... Memb... main() Membe... Both B and C B	11	NULL	TEXT TYP...	TEXT TYP...	No answer description available for this question				
49	Which o... The or... The ord... The ord... The order ... A	11	NULL	TEXT TYP...	TEXT TYP...	No answer description available for this question				

## PAPERS TABLE

The screenshot shows the MySQL Workbench interface with the 'PAPERS' table selected. The query pane displays the SQL command: `SELECT * FROM schema1.papers;`. The results grid shows the following data:

Sno	paperTitle	filepath	Courseid
10	Aptitude Practice Set 1	papers/1527453459868.pdf	7
11	Aptitude Practice Set 2	papers/1527453501969.pdf	7
12	Java practice paper	papers/1527453523734.pdf	6
*	NULL	NULL	NULL

## USERS TABLE

The screenshot shows the MySQL Workbench interface with the 'USERS' table selected. The query pane displays the SQL command: `SELECT * FROM schema1.users;`. The results grid shows the following data:

Fullscreen	Email	Password	Username	Userphoto	Userphone
UserOne	12.arshdeep.singh@gmail.com	qwerTY!@12	12.arshdeep.singh@gmail.com	images/user.jpg	9999988888
UserTwo	arshdeepsingh323@gmail.com	qwerTY!@12	arshdeepsingh323@gmail.com	images/user.jpg	9999988888
*	NULL	NULL	NULL	NULL	NULL

## RESULT TABLE

**MySQL Workbench - Local instance MySQL**

**Schema: schema1**

**Table: result**

**Columns:**

rid	Email	marksscored	finalresult	Sectionid	Courseid	testDate
69	12.arshdeep.s...	13	PASS	17	6	2018/05/27 22:54:20
70	12.arshdeep.s...	21	PASS	20	7	2018/05/27 22:57:33
71	12.arshdeep.s...	15	PASS	NULL	6	2018/05/27 23:00:52
72	12.arshdeep.s...	14	PASS	NULL	7	2018/05/27 23:05:42
73	arshdeepsingh...	15	PASS	NULL	6	2018/05/27 23:57:44
74	arshdeepsingh...	9	PASS	NULL	7	2018/05/28 00:00:28
75	12.arshdeep.s...	-2	FAIL	NULL	4	2018/05/28 01:48:46
76	12.arshdeep.s...	6	FAIL	NULL	7	2018/05/28 02:10:20
77	12.arshdeep.s...	0	FAIL	NULL	7	2018/05/28 02:10:39
78	arshdeepsingh...	0	FAIL	NULL	7	2018/05/28 02:11:24

## QUESRESULT TABLE

**MySQL Workbench - Local instance MySQL**

**Schema: schema1**

**Table: quesresult**

**Columns:**

id	qid	qrid	quesTitle	questImage	correctAnswer	useranswer	Email	questionId
69	120	662	Which two of the following methods are defined...	NULL	<b>[A]</b> start();	<b>[A]</b> 1 and 4	12.arshdeep.singh@...	quesresult 1
69	127	663	Which of the following will not directly cause a t...	NULL	<b>[A]</b> notify()	<b>[A]</b> notify()	12.arshdeep.singh@...	
69	124	664	Which will contain the body of the thread?	NULL	<b>[A]</b> run();	<b>[B]</b> public void run()	12.arshdeep.singh@...	
69	123	665	Which method must be defined by a class imple...	NULL	<b>[B]</b> new Thread(new MyRunnable())....	<b>[C]</b> new Thread(new MyRunnable())....	12.arshdeep.singh@...	
69	129	666	public class MyRunnable implements Runnable { ... }	NULL	<b>[C]</b> 1, 2, 6	<b>[A]</b> 1, 2, 4	12.arshdeep.singh@...	
69	117	667	Which three are methods of the Object class? <...>	NULL	<b>[C]</b> Calling notify() method on an obj... <b>[C]</b> Calling notify() method on an obj...	<b>[A]</b> Calling notify() method on an obj... <b>[B]</b> Calling notify() method on an obj...	12.arshdeep.singh@...	
69	119	668	Which cannot directly cause a thread to stop ex...	NULL	<b>[C]</b> 2, 5 and 6	<b>[A]</b> 1, 2, 4	12.arshdeep.singh@...	
69	121	669	Which three guarantee that a thread will leave ...	NULL	<b>[C]</b> start();	<b>[B]</b> public void run()	12.arshdeep.singh@...	
69	125	670	Which method registers a thread in a thread sc...	NULL	<b>[C]</b> X run = new X();  Thread t =...	<b>[D]</b> X run = new X();  Thread t =...	12.arshdeep.singh@...	
69	118	671	class X implements Runnable {    pu...	NULL	<b>[D]</b> Rs. 8925	<b>[D]</b> Rs. 8925	12.arshdeep.singh@...	
70	146	672	A sum fetched a total simple interest of Rs. 401...	NULL	<b>[A]</b> Rs. 6400	<b>[A]</b> Rs. 6400	12.arshdeep.singh@...	
70	145	673	Mr. Thomas invested an amount of Rs. 13,900 ...	NULL	<b>[C]</b> 2 : 3	<b>[C]</b> 2 : 3	12.arshdeep.singh@...	
70	155	674	What will be the ratio of simple interest earned ...	NULL	<b>[D]</b> Cannot be determined	<b>[D]</b> Cannot be determined	12.arshdeep.singh@...	
70	156	675	A certain amount earns simple interest of Rs. 1...	NULL				

## FEEDBACK TABLE

The screenshot shows the MySQL Workbench interface with the query `SELECT * FROM schema1.feedback;` executed. The results are displayed in a grid:

rid	Email	fid	rating	comment	c_Name	s_Name	testdate
69	12.arshdeep.sing...	24	3	Test was good	Java	Threads	2018/05/27 22:54:20
70	12.arshdeep.sing...	25	5	test was good	Aptitude	Simple Interest	2018/05/27 22:57:33
71	12.arshdeep.sing...	26	4	good	Java	nil	2018/05/27 23:00:52
72	12.arshdeep.sing...	27	2	test was okay	Aptitude	nil	2018/05/27 23:05:42
73	arshdeepsingh32...	28	5	test was great	Java	nil	2018/05/27 23:57:44
74	arshdeepsingh32...	29	1	not good	Aptitude	nil	2018/05/28 00:00:28
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

## USERQUERY TABLE

The screenshot shows the MySQL Workbench interface with the query `SELECT * FROM schema1.userquery;` executed. The results are displayed in a grid:

tq	name	address	subject	message	flag
6	arsh	12.arshdeep.singh@gmail.com	Query	This is a first query	1
7	User	arshdeepsingh323@gmail.com	query subject	it's a query	1
*	NULL	NULL	NULL	NULL	NULL

## **6.7 IMPLEMENTATION :**

A crucial phase in SYSTEM DEVELOPMENT LIFE CYCLE is the successful implementation of a new system design. Implementation simply means converting a new system design into operation.

Implementation is the stage in the project where the theoretical design is turned into the working system and is giving confidence to the new system for the users i.e. will work efficiently and effectively. It involves careful planning, investigation of the current system and its constraints on implementation, design of method to achieve the change over, an evaluation, of change over methods.

One of the key best practices for the project lifecycle is to plan early. In fact, if your implementation were large enough, you would actually start by creating an Implementation Strategy in the Analysis Phase. This document should describe the overall approach to implementation, the scope, assumptions, risks, etc. You can make some fundamental decisions here in terms of how the implementation will take place - for instance, whether you will be running tests in parallel during implementation, whether the system will be down during implementation, etc.

So far, you have completed an Implementation Strategy (during Analysis) and an Implementation Plan (during Design). However, you still have to plan the schedule activities for implementation. This should be done during the Construct or Test Phases. At this point, you have already worked your way from high-level to low-level, so your remaining work is to actually define the activities, dependencies, timing, responsible person, etc.

In addition to planning, the other critical element of implementation is communication. (Again, we are talking about a complex implementation. If your implementation is small, you might just throw the solution into production and explain what you did.) If you follow an approach similar to what was previously described, you will have been communicating all along. The Implementation Strategy is meant to focus on the process from a client perspective and should have his approval before proceeding. The Implementation Plan should be circulated to everyone involved.

## 7. EPILOGUE

As no system design is ever perfect as communication problem, programmer's lack of knowledge or time constraints creates error . A perfect project is that in which there is a minimum key punching. The number of errors in future in a new design depends upon several factors.

Some of responsible factors are :

- ❖ Communication between user and designer .
- ❖ The programmer's ability to generate a code that reflects easily the system specification.
- ❖ The timer frame for the design.

In our project entitled “**AceInterviewTest**” we have tried our best to cover each aspect carefully and accurately . On further analysis , the drawbacks of the system will show themselves which will further need modifications.

## **8. MY GAINS**

I have a great experience in six months training and learnt a lot of new design and technologies.

**some key points are given below :-**

- ❖ This project was a learning experience. I have tried my best to build an website as per requirements .
- ❖ These technologies are very helpful for making my career in IT sector.
- ❖ A part from technology I also learnt how to work on combine project in team.
- ❖ How to efficiently manage the time while making the project .

## 10. BIBLIOGRAPHY

To bring the system to verge of completion the following books have been referred .

<b>NAME OF THE BOOK</b>	<b>AUTHOR'S NAME</b>
JAVA:THE COMPLETE REFERENCE	HERBERT SCHILDT
SQL	IVAN BAYROSS

Some websites referred are :-

- ❖ [www.google.com](http://www.google.com)
- ❖ [www.stackoverflow.com](http://www.stackoverflow.com)
- ❖ [www.tutorialspoints.com](http://www.tutorialspoints.com)