

## PHASE-END PROJECT

**Project Agenda:** Create an online quiz portal, where users can explore multiple quiz, attempt the quiz, and save their position on the leaderboard

### Step 1: Admin Authentication

- Create a separate URL for the admin portal and implement admin authentication using JSP, Servlet, and JDBC.
- Store admin username and encrypted password in the MySQL database.
- Provide a login page for admin users to enter their credentials.

### Step 2: Admin Profile and Password Update

- After successful authentication, allow the admin to update their profile information and change their password.

### Step 3: Questions Management

- Implement a functionality that allows the admin to add questions to the MySQL database. Questions may include the question itself, options, and correct answer.

### Step 4: Quiz Creation

- Allow the admin to create quizzes by selecting questions from the database and setting a quiz name.
- Store quiz details in the database, including quiz name and associated question IDs.

### Step 5: Dashboard

- Create a dashboard for the admin user to view statistics such as the total number of quizzes, total questions, and total users in the system.
- Fetch this data from the database and display it on the admin dashboard.

### Step 6: Leaderboard

- Implement a functionality that allows the admin to view the users who have participated in a quiz along with their scores and display them in a leaderboard format.

#### Step 7: User Registration

- Implement a user registration system for new users to create their profiles.
- Store user information, such as username, id, and password, in the MySQL database.

#### Step 8: Quiz Exploration

- Allow registered users to explore quizzes created by the admin.
- Display the quiz details, including questions and options.

#### Step 9: Quiz Attempt

- Allow users to attempt the quiz and provide their answers for each question.
- Implement logic to check whether the given answers are correct or not and calculate the user's score.

#### Step 10: Display Quiz Results

- After the user completes the quiz, show the quiz results with correct and incorrect answers.

#### Step 11: Database Connection

- Set up a database connection to MySQL in your JSP and Servlets using JDBC.

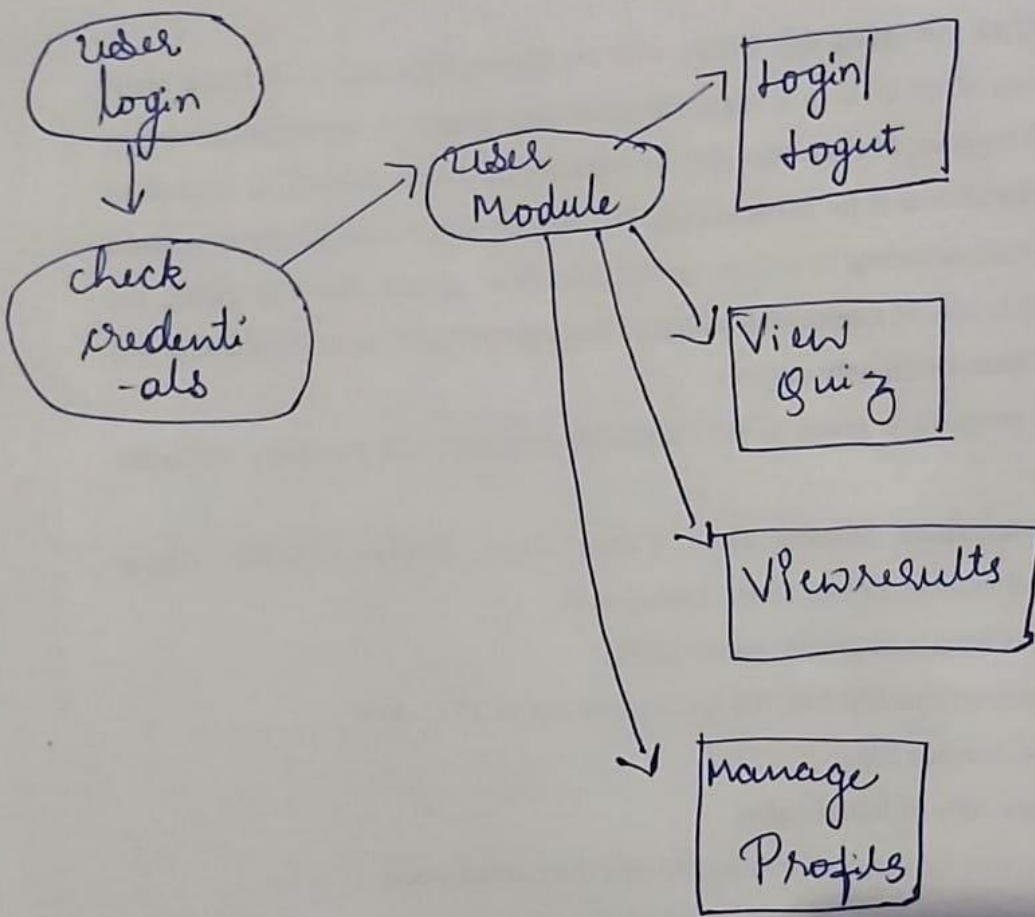
#### Step 13: Test and Debug

- Test the application thoroughly and fix any bugs or issues.

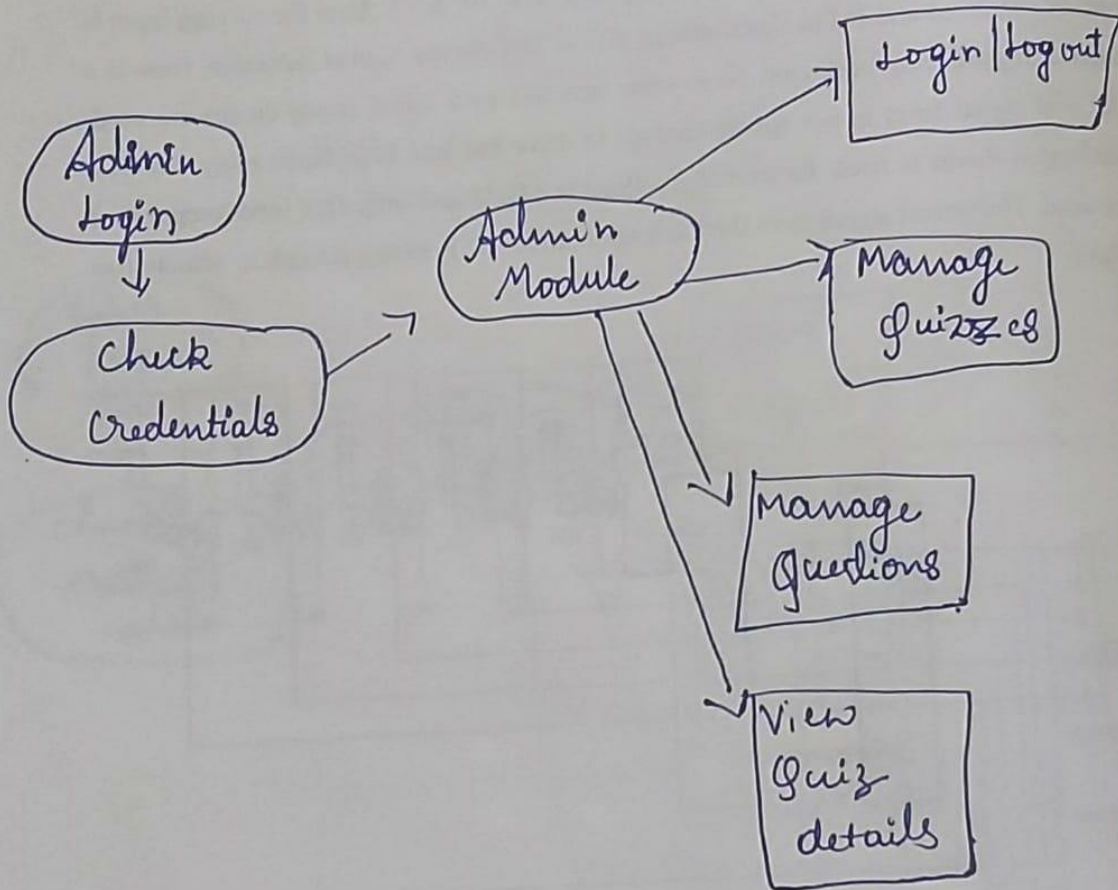
#### Step 14: Deploy

- Deploy the Online Quiz Portal to the Tomcat server.

# Flowchart for user login



# Flowchart for admin



## Database Creation

/admintable

```
create table admintable(userid varchar2(20),password varchar2(20));
```

```
insert into admintable values('admin','admin');
```

-----

//usertable

```
create table usertable(userid varchar2(20),password varchar2(20),name  
varchar2(20));
```

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//questiontable

```
create table questiontable(question varchar2(40),a varchar2(40),b varchar2(40),c  
varchar2(40),d varchar2(40),answer varchar2(20));
```

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//quiztable

```
Create table quiz(id int,title varchar(10),category(20));
```

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//uniques ids to admins and user

```
ALTER TABLE usertable ADD PRIMARY KEY (USERID);
```

```
ALTER TABLE admintable ADD PRIMARY KEY (USERID);
```