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**Aim :**Development of problem statement.

**PROBLEM STATEMENT:**

The recruitment system allows the job seekers to view the job opportunity through Advertisement and helps to apply for the job. The organization shortlist the applicants for the interview. The shortlisted applicants undergo through a process of Test and Interview. The HR department selects the Applicant based on the performance in the Test and Interview. Finally the recruited applicants are informed. This system makes the task of the job seeker easier rather than waiting in queue for enrollment. This also reduces the time consumption for both for the job seeker and organization..

**Aim :** Preparation of Software Requirement Specification Document.

## **RECRUITMENT SYSTEM SOFTWARE REQUIREMENT SPECIFICATION**

### **INTRODUCTION**

**Recruitment System** is an interface between the Applicant and the Organization responsible for the Recruitment. It aims at improving the efficiency in the Recruitment process and reduces the complexities involved in it to the maximum possible extent. The recruitment system allows the job seekers to view the job opportunity through Advertisement and helps to apply for the job. The organization shortlist the applicants for the interview. The shortlisted applicants undergo through a process of Test and Interview. The HR department selects the Applicant based on the performance in the Test and Interview. Finally the recruited applicants are informed. This system makes the task of the job seeker easier rather than waiting in queue for enrollment. This also reduces the time consumption for both for the job seeker and organization.

### **PURPOSE**

If the entire process of 'Recruitment' is done in a manual manner then it would takes several days for the recruitment. Considering the fact that the number of applicants for recruitment is increasing every year, an Automated System becomes essential to meet the demand. So this system uses several programming and database techniques to elucidate the work involved in this process.

### **SCOPE**

- The System provides an online interface to the user where they can fill in their personal details and apply for the job.
- The Organization (HR-Department) concerned with the recruitment process can make use of this system to reduce their workload and process the application in a speedy manner.
- Provide a communication platform between the Applicant and the Organization.

### **TECHNOLOGIES TO BE USED**

- HTML
- JSP
- Javascript
- Java

### **TOOLS TO BE USED**

- Eclipse IDE (Integrated Development Environment)
- Rational Rose tool (for developing UML Patterns)

### **PRODUCT PERSPECTIVE**

The RS acts as an interface between the "Applicant and the 'Organization'. This system tries to make the interface as simple as possible and at the same time not risking the security of data stored in. This minimizes the time duration for recruitment process.

### **SOFTWARE INTERFACE**

- **Front End Client** –The Applicants and Organization online interface is built using JSP and HTML. The Administrators' local interface is built using Java.
- **Web Server** - Glassfish application server (SQL Corporation).
- **Back End** - SQL database.

### **HARDWARE INTERFACE**

The server is directly connected to the client systems. The client systems have access to the database in the server.

### **SYSTEM FUNCTIONS**

- The applicant views the jobs through Advertisement.
- Applicants apply for the job.
- Test and Interview are conducted.
- Recruited Applicants are informed.
- HR Manager can generate reports from the information and he/she is the only authorized personnel to add the eligible application information to the database.

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## **USER CHARACTERISTICS**

- **Applicant**

These are the persons who desire to apply for the job.

- **Organization**

These are the person with certain privileges to announce recruitment depending upon the organization need. He/ She may contain a group of persons under him/her to publish advertisement and give suggestion whether or not to approve the recruitment.

- **HR**

He/ She is the person who upon receiving intimation from the RS, perform a personal verification of the applicants and see if he/she has eligibility for the advertised job through a process of Test and Interview.

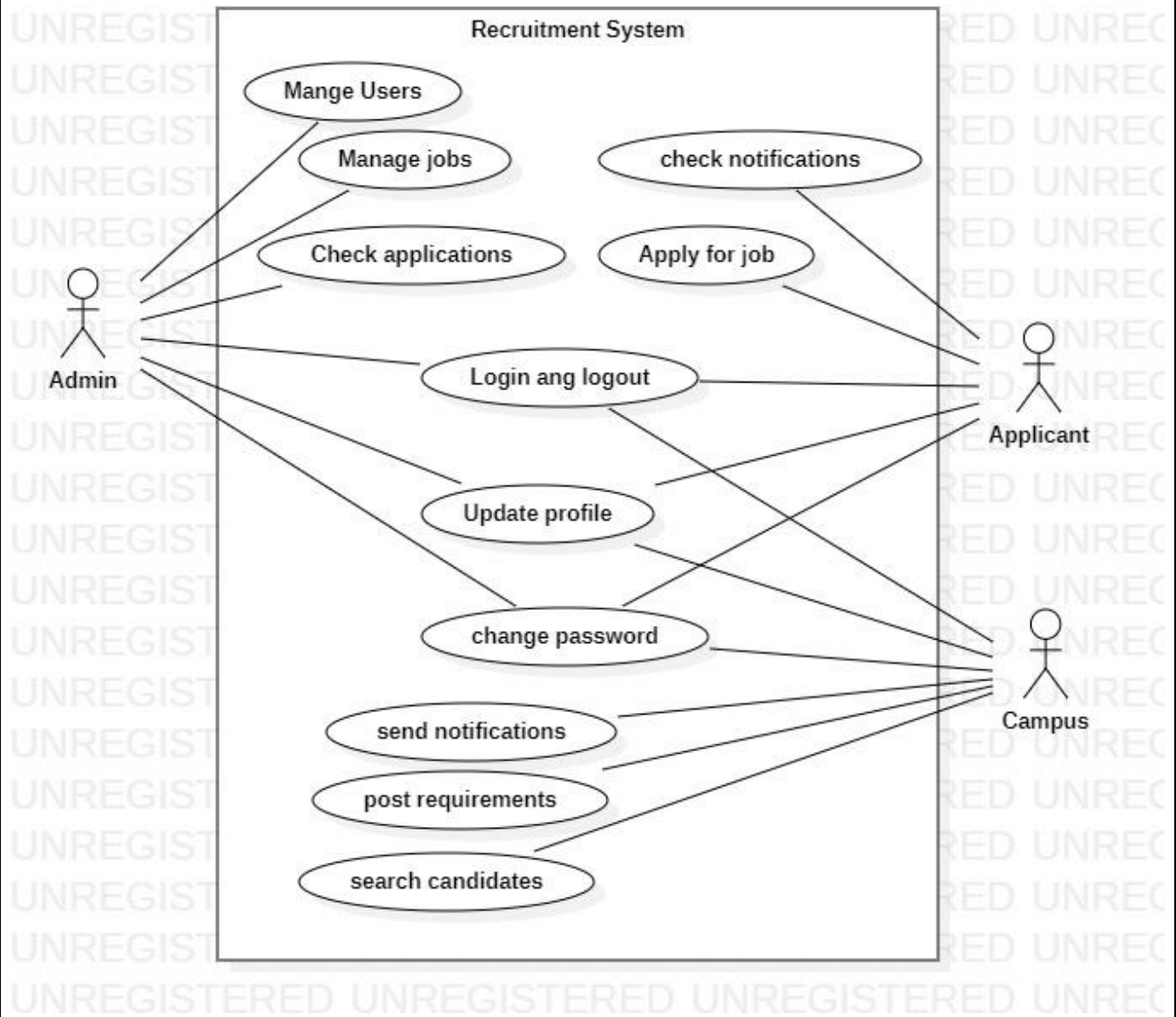
## **CONSTRAINTS**

- ☐ The Applicants require a computer to submit their information.

**Aim :** Design Documents and Testing Phase related documents.

## RECRUITMENT SYSTEM

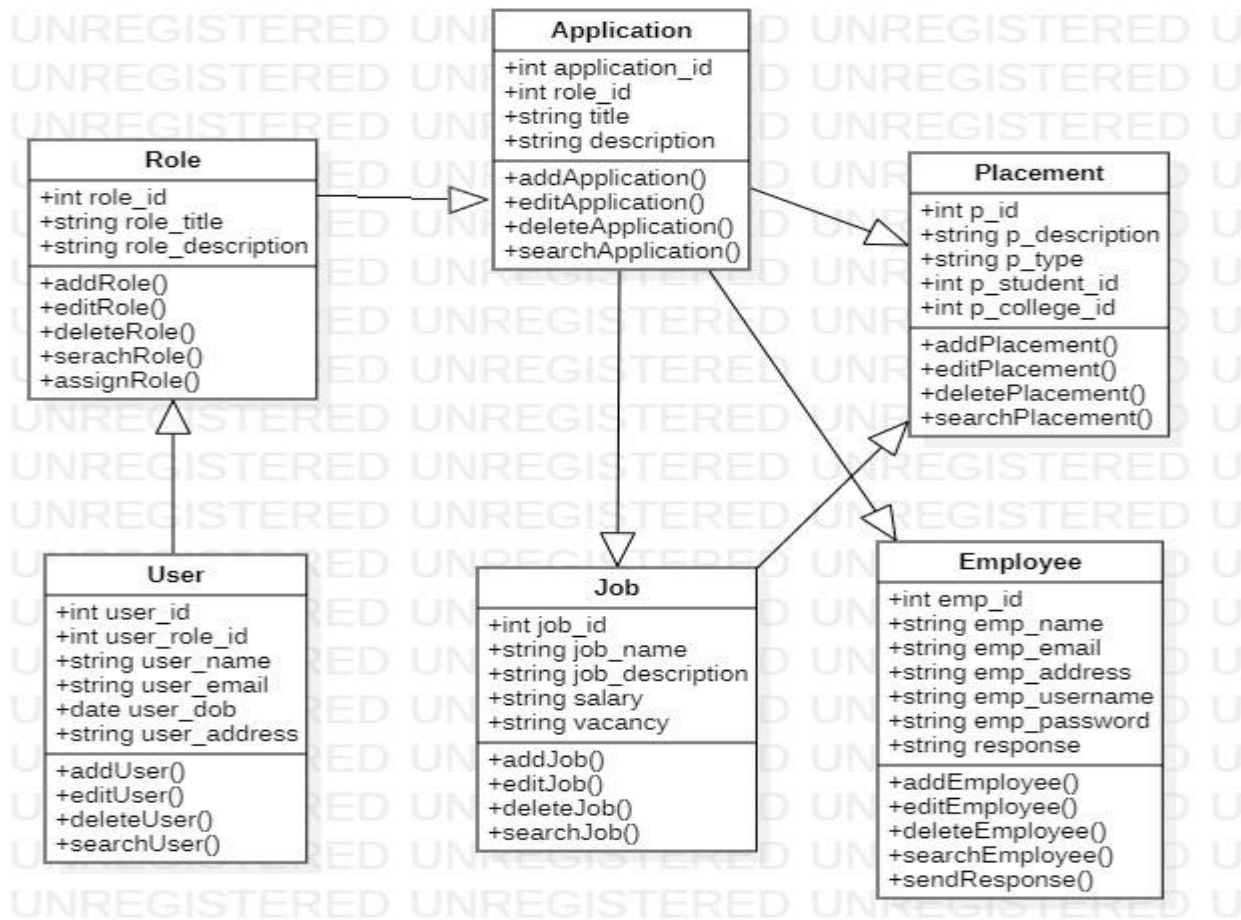
### DOCUMENTATION OF USE CASE DIAGRAM



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The Recruitment system use cases are Advertisement, Apply for job, Test, Interview, Recruit Applicants.

- Actors in use diagram are Applicant, Organization, HR
- The actors use the use case are denoted by the arrow
- In Advertisement use case HR informs about vacancy to Organization and the Organization announces the Advertisement.
- Apply for Job Use Case is initiated by Applicants. Online forms are filled by the Applicants and submitted to the organization.
- This Select Applicants for Interview Use Case is initiated by HR. The lists of selected Applicants are Informed. The Test and Interviews are conducted by the HR of the region that has the vacancy.
- This Test Use Case is initiated by the HR. A test will be conducted by the HR
- This Interview Use Case is initiated by the HR. An Interview will be conducted by the HR
- This Recruited Applicants Use Case is initiated by the HR. The selected applicants are recruited by HR.

**DOCUMENTATION OF CLASS DIAGRAM****□ Applicant**

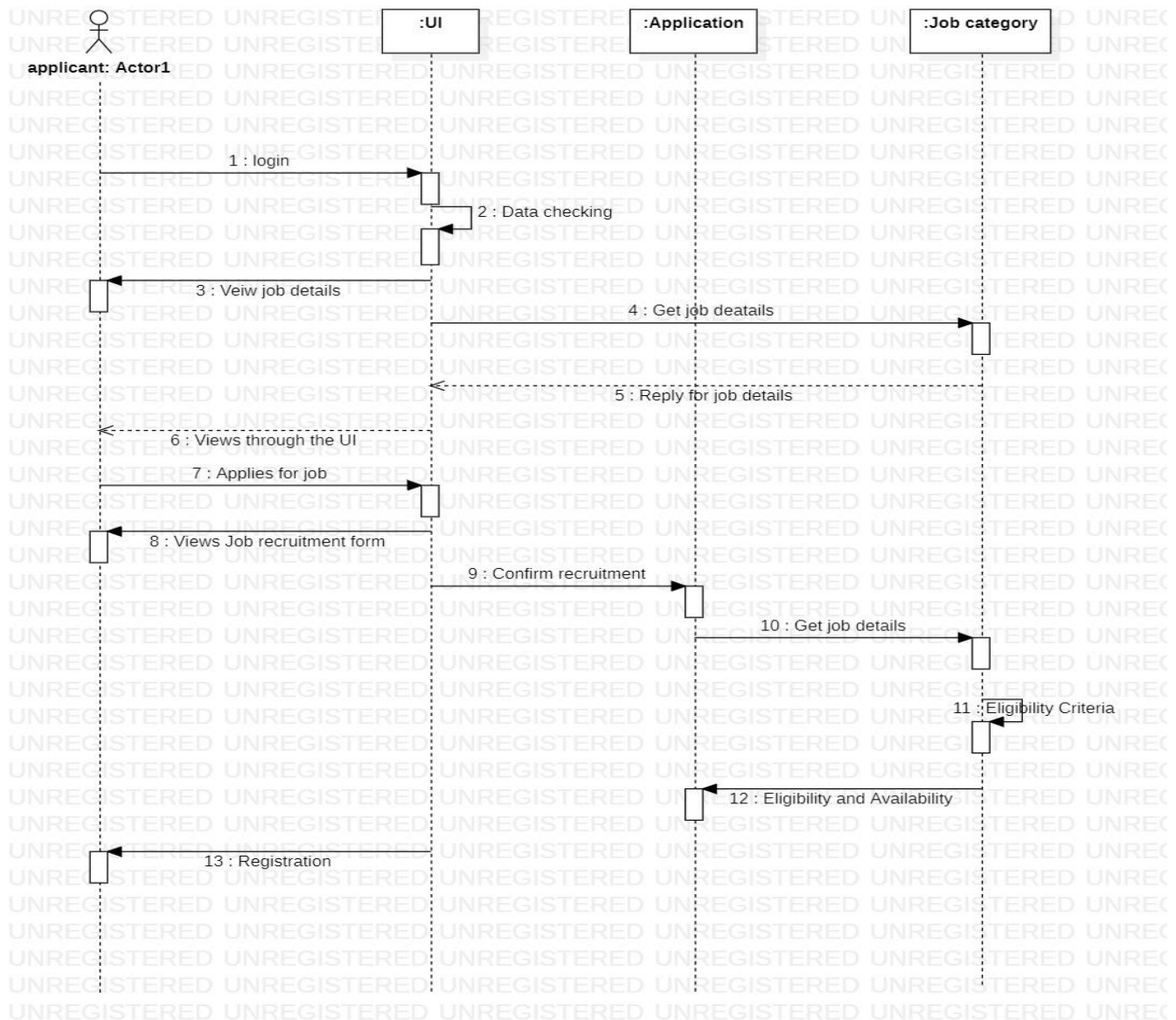
Applicant is an actor who applies for the job vacancy. If he/she gets selected then HR department sends the Interview call letter.

**□ HR**

HR is an actor who informs about the vacancy to their Organization. HR recruits the applicants based on the required skill for the vacant position and shortlist them. HR is also responsible for Interview Scheduling.

**□ Organization**

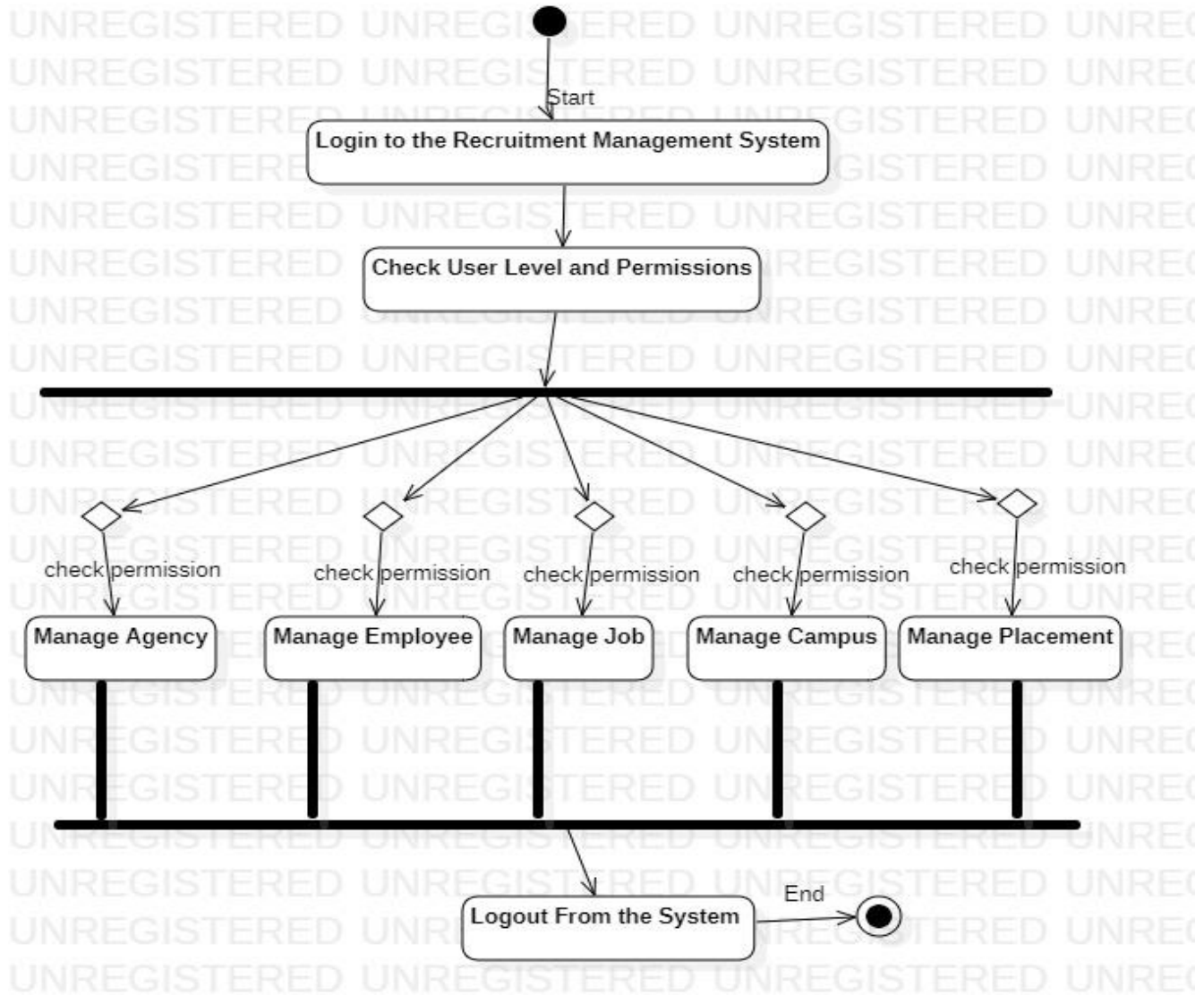
Organization is an actor who announces the Advertisement for vacancy.

**DOCUMENTATION OF SEQUENCE DIAGRAM.**

- Applicant is an actor who applies for the job vacancy. If he/she gets selected then HR department sends the Interview call letter.
- Organization is an actor who announces the Advertisement for vacancy.
- HR is an actor who informs about the vacancy to their Organization. HR recruits the applicants based on the required skill for the vacant position and shortlist them. HR is also responsible for Interview Scheduling.

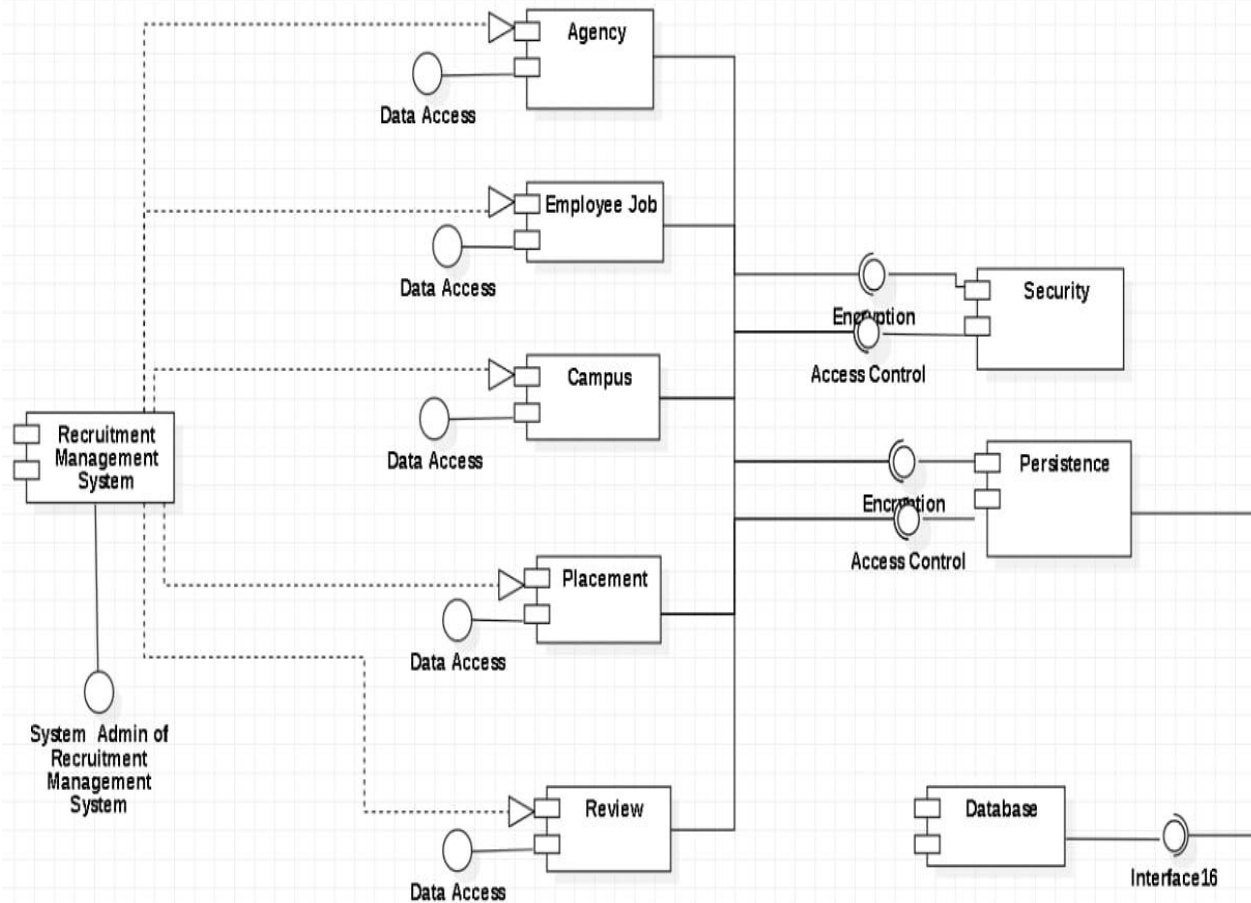


## DOCUMENTATION OF ACTIVITY DIAGRAM



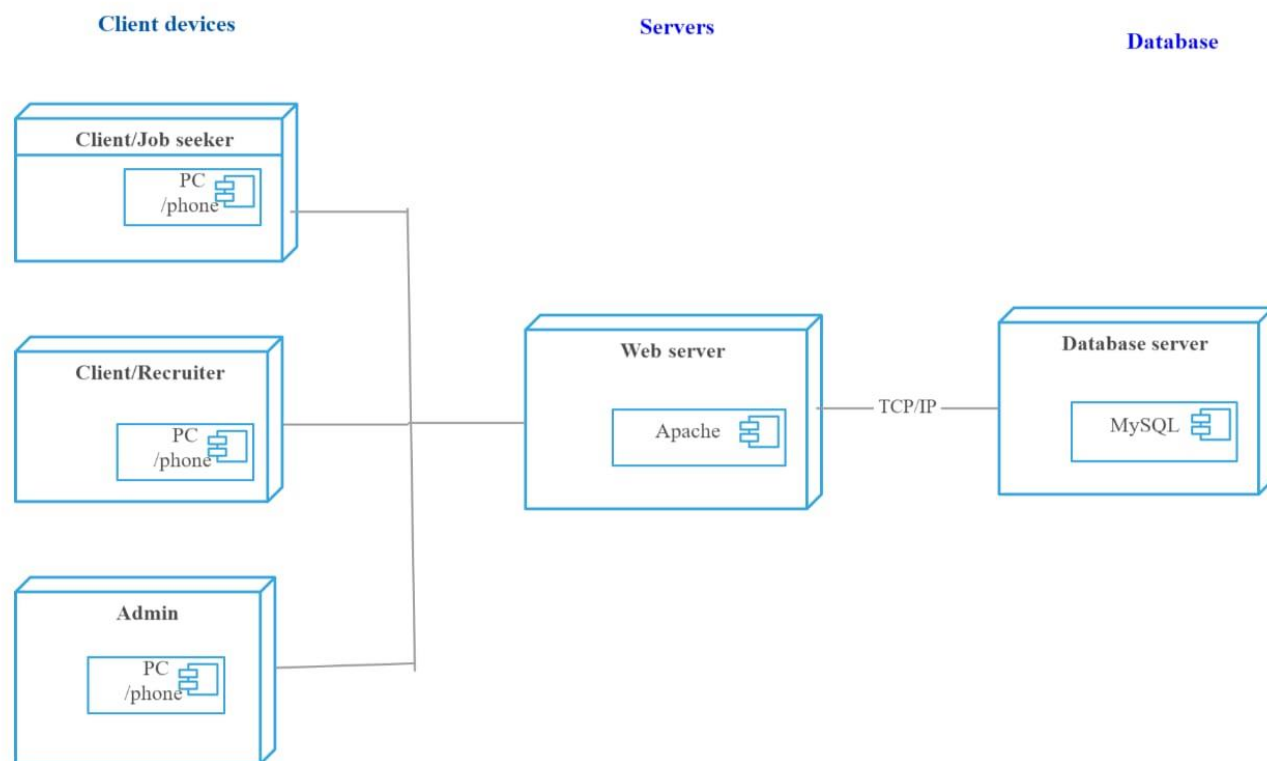
- The activities in the recruitment diagram are apply for the job, get selected, pass Test, pass Interview, finalizes salary and get recruited
- The applicants know the organisation jobs through advertisement or other and applies for the job
- Gets short listed by The HR and called for interview which is a test and interview
- On getting selected finalise the salary
- The recruited and non-recruited are informed

## DOCUMENTATION OF COMPONENT DIAGRAM



- The component diagram for recruitment system has three components and those are: Database, IIS Service and Web Browser
- Database and IIS Services are dependent on each other and IIS Service and Web Browser are dependent on each other as well

## **1DOCUMENTATION OF DEPLOYMENT DIAGRAM**

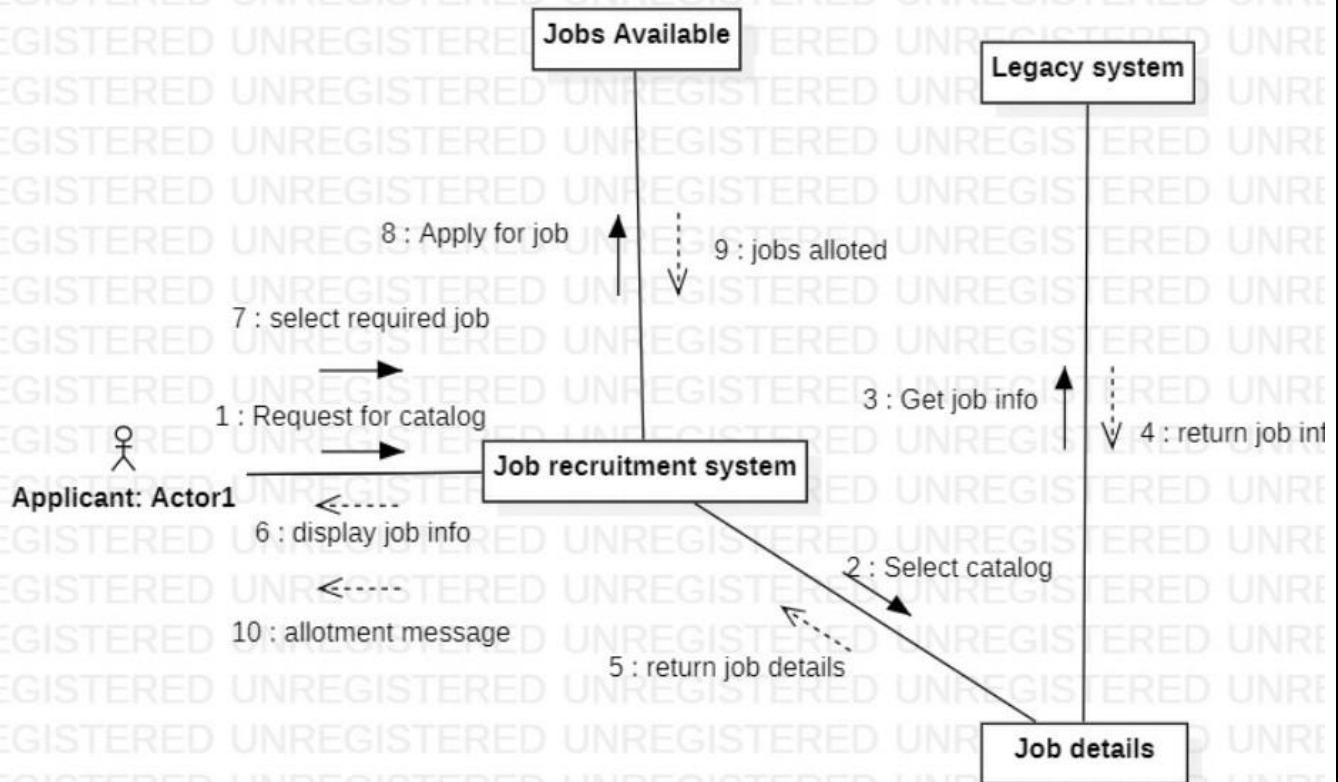


- The deployment diagram for recruitment system consists of the topology of the physical components of system
- The topology will of this form: Database Server to Web Server and then to all the clients

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## DOCUMENTATION OF COLLABORATION DIAGRAM

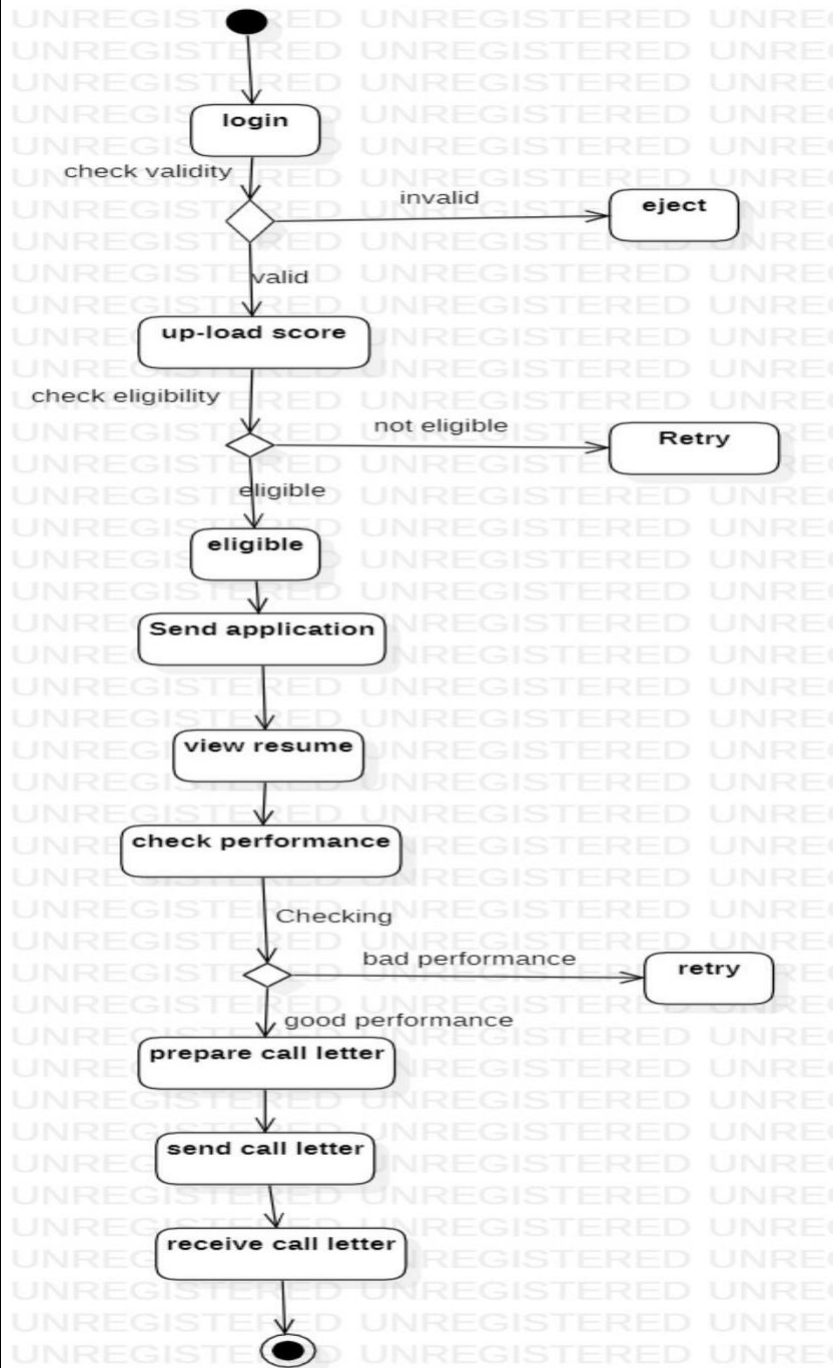


- Advertisement, apply for job, Test, Interview, Recruit Applicants are shown in sequence number
- The Applicants view the jobs in the advertisement and apply for the job in the Organisation
- The Organisation forwards the applicants to the HR and HR analyses the applicants resume and send interview mails
- The selected applicants attended interview and write a test.
- The applicants who passed the test and interview get their salary decided

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## DOCUMENTATION OF STATE CHART DIAGRAM



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- The states of the recruitment system are denoted in the state chart diagram
- View Jobs state represents all the vacant jobs advertised by the Organisation
- Apply Job represents all the applicants applying for the job the applications being to the HR for selection
- Select for Interview State represents HR selecting the eligible applicants
- Test state represents the selected applicants by the HR receive a mail for future tests
- Interview state represents all the applicants who passed the test move to interview
- Salary state represents the applicants selected from the interview and they fix their salaries
- Recruit state represents the recruited applicants

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**Recuritment System Register.html**

```
<html>
<head>
<title>HTML Table</title>
</head>
<body>
<form method="" action="">
<table border="1" align="center" width="400" bgcolor="#DAF7A6" >
<caption>Registration form</caption>
<tr>
<th>Enter your first name</th>
<td><input type="text" name="fn" id="fn1" maxlength="10" title="enter your first name"
placeholder="enter your first name" required/></td>
</tr>
<tr>
<th>Enter your last name</th>
<td><input type="text"/></td>
</tr>
<tr>
<th>Enter your password</th>
<td><input type="password"/></td>
</tr>
<tr>
<th>Enter your password</th>
<td><input type="password"/></td>
</tr>
<tr>
<th>ReEnter your password</th>
<td><input type="password"/></td>
</tr>
<tr>
<th>Enter your email</th>
<td><input type="email"/></td>
</tr>
<tr>
<th>Enter your mobile</th>
<td><input type="number"/></td>
</tr>
<tr>
<th>Enter your address</th>
<td><textarea rows="8" cols="20"></textarea></td>
</tr>
<tr>
<th>Select your gender</th>
<td><input type="radio" name="gender" value="male" /> Male
<input type="radio" name="gender" value="female" /> Female
</td>
</tr>
</table>
</form>
</body>
</html>
```

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```
<td>
male<input type="radio" name="g" value="m"/>
female<input type="radio" name="g" value="f"/>
Other<input type="radio" name="g" value="O"/>



</td>
</tr>
<th>Select your DOB</th>
<td><input type="date"/></td>
</tr>
<tr>
<th>Select your Country</th>
<td>
<select name="country">
<option value="" selected="selected" disabled="disabled">Select your country</option>
<option value="1">India</option>
<option value="2">Pakistan</option>
<option value="3">U.S</option>
<option value="4">U.K</option>
<option value="5">China</option>
<option value="6">Australia</option>
<option value="7">Africa</option>
<option value="8">Canada</option>
<option value="9">Russia</option>

</select>
</td>
</tr>
<tr>
<th>Upload your pic</th>
<td><input type="file"/></td>
</tr>
<tr>
<td colspan="2" align="center"><input type="submit" value="Save My Data"/>
<input type="reset" value="Reset Data"/>
</td>
</tr>
</table>
</form>
</body>
</html>
```



**OUTPUT:**

**Registration form**

<b>Enter your first name</b>	<input type="text" value="enter your first name"/>
<b>Enter your last name</b>	<input type="text"/>
<b>Enter your password</b>	<input type="password"/>
<b>Enter your password</b>	<input type="password"/>
<b>ReEnter your password</b>	<input type="password"/>
<b>Enter your email</b>	<input type="text"/>
<b>Enter your mobile</b>	<input type="text"/>
<b>Enter your address</b>	<input type="text"/>
<b>Select your gender</b>	male <input type="radio"/> female <input type="radio"/> Other <input type="radio"/>
<b>Select your DOB</b>	<input type="text" value="dd - mm - yyyy"/> 
<b>Select your Country</b>	<input type="text" value="Select your country"/> 
<b>Upload your pic</b>	<input type="button" value="Choose File"/> No file chosen
<input type="button" value="Save My Data"/> <input type="button" value="Reset Data"/>	

---

**Login.html**

```
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<style>
/* Add a background color when the inputs get focus */
input[type=text]:focus, input[type=password]:focus {
  background-color: #ddd;
  outline: none;
}

/* Set a style for all buttons */
button {
  background-color: #4CAF50;
  color: white;
  padding: 14px 20px;
  margin: 8px 0;
  border: none;
  cursor: pointer;
  width: 100%;
  opacity: 0.9;
}

button:hover {
  opacity:1;
}

/* Add padding to container elements */
.container {
  padding: 16px;
}

/* The Modal (background) */
.modal {
  display: none; /* Hidden by default */
  position: fixed; /* Stay in place */
  z-index: 1; /* Sit on top */
  left: 0;
  top: 0;
  width: 100%; /* Full width */
  height: 100%; /* Full height */
  overflow: auto; /* Enable scroll if needed */
  background-color: #474e5d;
```

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```
padding-top: 50px;
}

/* Modal Content/Box */
.modal-content {
  background-color: #fefefe;
  margin: 5% auto 15% auto; /* 5% from the top, 15% from the bottom and centered */
  border: 1px solid #888;
  width: 80%; /* Could be more or less, depending on screen size */
}

/* Style the horizontal ruler */
hr {
  border: 1px solid #f1f1f1;
  margin-bottom: 25px;
}

/* The Close Button (x) */
.close {
  position: absolute;
  right: 35px;
  top: 15px;
  font-size: 40px;
  font-weight: bold;
  color: #f1f1f1;
}

.close:hover,
.close:focus {
  color: #444336;
  cursor: pointer;
}

/* Clear floats */
.clearfix::after {
  content: "";
  clear: both;
  display: table;
}

body { font-family: Arial, Helvetica, sans-serif; }
form { border: 3px solid #f1f1f1; }

input[type=text], input[type=password] {
  width: 100%;
```

```
padding: 12px 20px;
margin: 8px 0;
display: inline-block;
border: 1px solid #ccc;
box-sizing: border-box;
}

button {
  background-color: blue;
color: white;
padding: 14px 20px;
margin: 8px 0;
border: none;
cursor: pointer;
width: 100%;
}

button:hover {
  opacity: 0.8;
}

.container {
padding: 16px;
}

span.psw {
  float: right;
padding-top: 16px;
}

/* Change styles for span and cancel button on extra small screens */
@media screen and (max-width: 300px) {
  span.psw {
    display: block;
    float: none;
  }
  .cancelbtn {
    width: 100%;
  }
}

.guest-form-card{
width: 380px;
margin:10% auto;
border-radius: 25px;
background-color:rgba(0,0,0,0.1);
box-shadow: 0 0 17px #333;
```

```
}
.guest-form-card label{
    font-size: small;
}
</style>
</head>
<body>
<div class="row">
<div class="col-md-4 offset-md-4">
<div class="guest-form-card card">
<div class="card-header text-center">
<center><h3>LOGIN HERE</h3></center>
</div>
<div class="card-body">
<form action="/fs.html" method="post">
<div class="container">
<label for="uname"><b>Username</b></label>
<input type="text" placeholder="Enter Username" id="email" required>

<label for="password"><b>Password</b></label>
<input type="password" placeholder="Enter Password" id="password" required>

<button type="button" onclick="registration()"><a
href="C:\Users\user\Desktop\Emailclient\fs.html">Login</a></button>
<label>
<input type="checkbox" checked="checked" name="remember"> Remember me
</label>
</div>

<div class="container" style="background-color:#f1f1f1">
<div class="container register">
<p>Don't you have an account?<button
onclick="document.getElementById('id01').style.display='block'" style="width:auto;">Sign
Up</button>

<div id="id01" class="modal">
<span onclick="document.getElementById('id01').style.display='none'" class="close" title="Close
Modal">&times;</span>
<div class="row">
<div class="col-md-4 offset-md-4">
<div class="guest-form-card card">
<div class="card-body">
<form class="modal-content" action="/action_page.php">
<div class="container">
```

```
<h1>Sign Up</h1>
<hr>
<label for="firstName"><b>FirstName</b></label>
<input type="text" placeholder="Enter firstName" id="firstName" required>
  <label for="lastName"><b>LastName</b></label>
<input type="text" placeholder="Enter LastName" id="lastName" required>
  <label for="email"><b>Email</b></label>
<input type="text" placeholder="Enter Email" id="email" required>
  <label for="psw"><b>Password</b></label>
<input type="password" placeholder="Enter Password" id="psw" required>
  <label for="cpsw"><b>Confirm Password</b></label>
<input type="password" placeholder="Enter Confirm Password" id="cpsw" required>
  <p>By creating an account you agree to our <a href="#" style="color:dodgerblue">Terms &
Privacy</a>.</p>
  <div class="clearfix">
<button type="button" onclick="registration()"><a
href="C:\Users\user\Desktop\Emailclient\fs.html">Submit</a></button>
</div>
</div>
</form>
</div>
</p>
</div>
</div>
</div>
</div>
</div>
</div>
</form>

</body>
</html>
```

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**OUTPUT:**

## LOGIN HERE

**Username**

Enter Username

**Password**

Enter Password

Login

☒ Remember me

Don't you have an account?

Sign Up

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**TESTCASES:**

TEST CASE ID	TEST SCENARIO	TEST CASE	PRE-CONDITION	TEST STEPS	TEST DATA	EXPECTED RESULT	POST CONDITION	ACTUAL RESULT	STATUS
TC_signup_001	User Interface	Check all the text boxes, radio buttons, buttons, etc	Check if the screen has text boxes	Click on Radio buttons, buttons and dropdowns	NA	UI should be perfect			
TC_signup_002	Required Fields	Check the required fields by not filling any data	check if (*) is mentioned	1. Do not enter any values in the fields 2. Click on register Button	NA	It should show a mandatory symbol on mandatory fields			
TC_signup_003	Optional Fields	Check all the optional fields when do not fill data	check if (*) is mentioned	1. Do not enter any detail in optional fields 2. Enter valid data in required fields 3. Click on the Signup button	NA	1. It should not ask to fill the optional fields 2. User should be registered successfully 3. A Successful registration message should show 4. Mail should send to the user			
TC_signup_004	Optional Fields	Check all the optional fields when do not fill data		1. Enter valid data in optional fields 2. Enter valid data in required fields 3. Click on the Register button	NA	1. User should be registered successfully 2. A Successful registration message should show 3. Mail should be sent to the user			
					NA				