**Software Design Specification**

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# 1. Introduction

The Software Design Document is a document to provide do cumentation which will be used to aid in software development by providing the details for how the software should be built. Within the Software Design Document are narrative and graphical documentation of the software design for the project including use case models, sequence diagrams, collaboration models, object behavior models, and other supporting requirement information.

## 1.1 Purpose of this document

This document will define the design of the one runway simulator. It contains specific information about the expected input,output,classes and functions. The interaction between the classes to meet the desired requirements are outlined in detailed figures at the end of the document.

## 1.2 Scope of the development project

We describe what features are in the scope of the software and what are not in the scope of the software to be developed.

In Scope:

1. Application for the job/internship by the any person of respective place.
2. Customer can retrieve the information about the particular services.

.

Out of Scope:

a. Selection process for any internship

## 1.3 Definitions, acronyms, and abbreviations

IEEE: Institute of Electrical and Electronics Engineers

SDS: Software Design Specification

## 1.4 References

**1.4.1** R. S. Pressman, Software Engineering: A Practioner’s Approach, 5th Ed, McGraw-Hill, 2001.

**1.4.2** IEEE SDS template

## 1.5 Overview of document

This SDS is divided into seven sections with various sub-sections. The sections of the Software Design Document are:

1. **Introduction**: describes about the document, purpose, scope of development project definitions and abbreviations used in the document.
2. **Conceptual** **Architecture**/**Architecture** **Diagram:** describes the overview of components, modules, structure and relationships and user interface issues.
3. **Logical** **Architecture:** describesLogical Architecture Description and Components.
4. **Execution** **Architecture:** definesthe runtime environment, processes, deployment view.
5. **Design** **Decisions** **and** **Trade-offs:** describes the decisions taken along with the reason as to why they were chosen over other alternatives.

**2 .Conceptual Architectural Designs**

**2.1 User interface issues**

This section will address user interface issues as they apply to the following hypothetical users of this housekeeping services system.

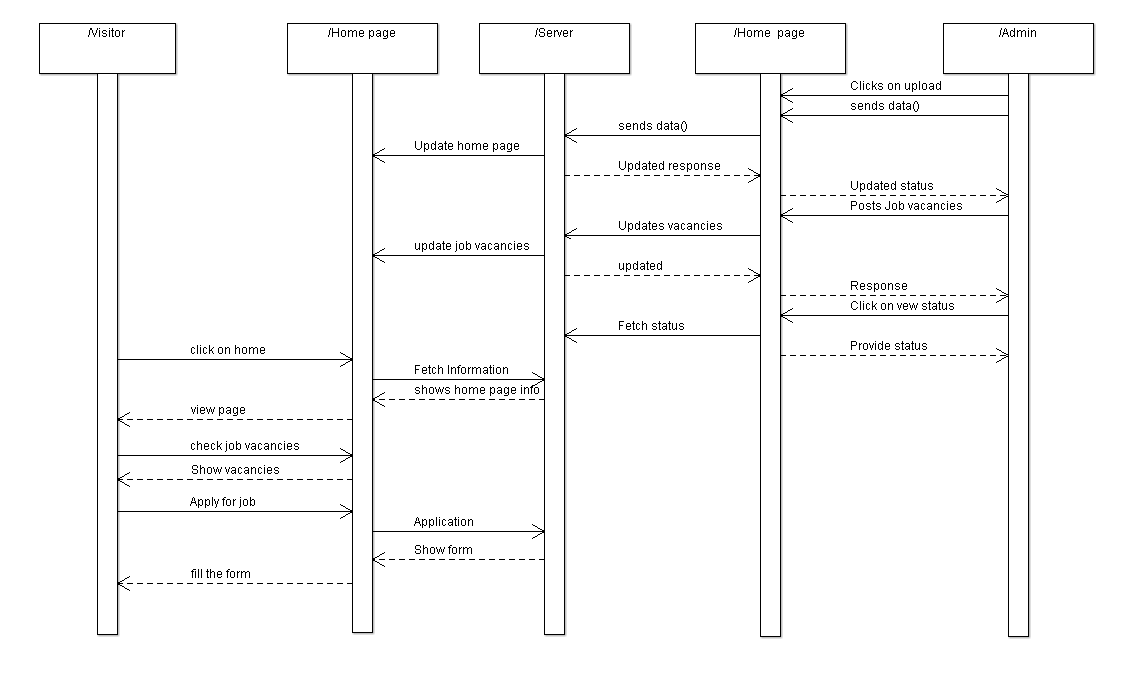
1. User A is a 21-year old female who is fairly comfortable with technology. She is proficient with using the most common computer website applications.Since user A is familiar with android applications, this website will use common user interface conventions.For example, liks between screens will use ordinary , easy to understand descriptions such as :login”, “home”, “upload”,”CV”, “about” etc. To maintain consistency , any other links will also appear in the bottom half of the screen.

2. User B is a 35-year old male. He is although comfortable using online website applications, he has never used any portal which helps applying for jobs/internships. He may or may not acknowledge if this website application is really helpful to apply for a job.Since user B is not fond of such a technology oriented, it is imperative that he be given clear on-screen directions. Consequently, the user interface has been tried to be such that grabs the attention of the user. It has been taken care that user should not consider this application as a burden to use. On-clicks task implementation has been done in the application so that the admin have an ease in communication with the company.Colour combination has been chosen.

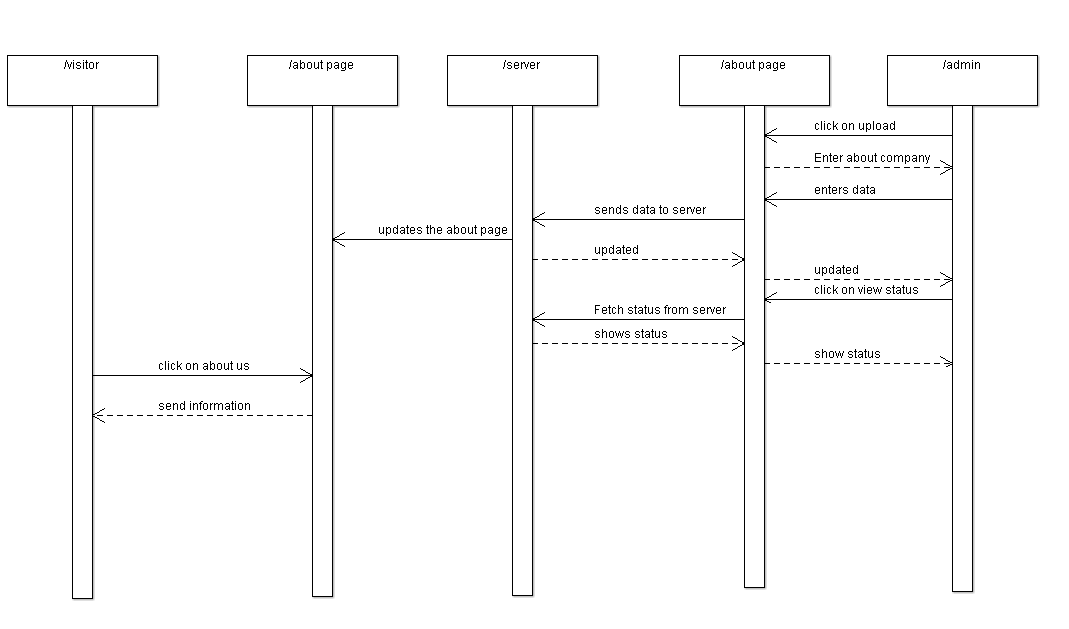
**3.Logical Architecture (Sequence Diagram, State Diagram)**

**Sequence Diagram**

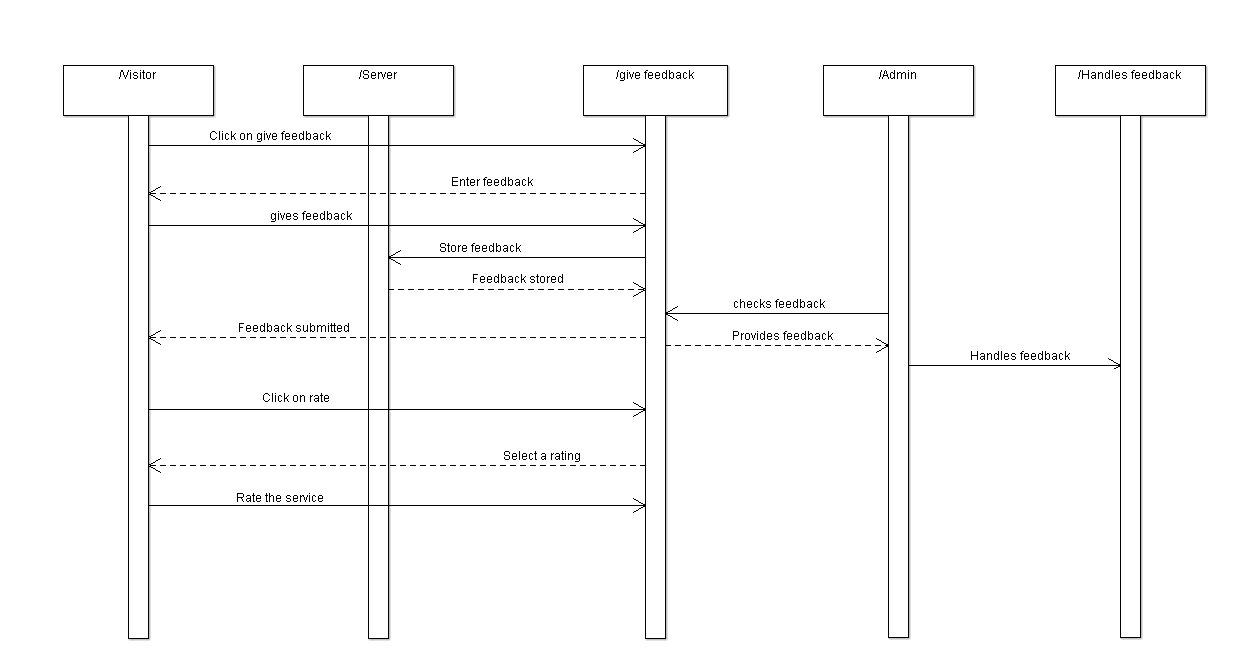
**Home page**

****

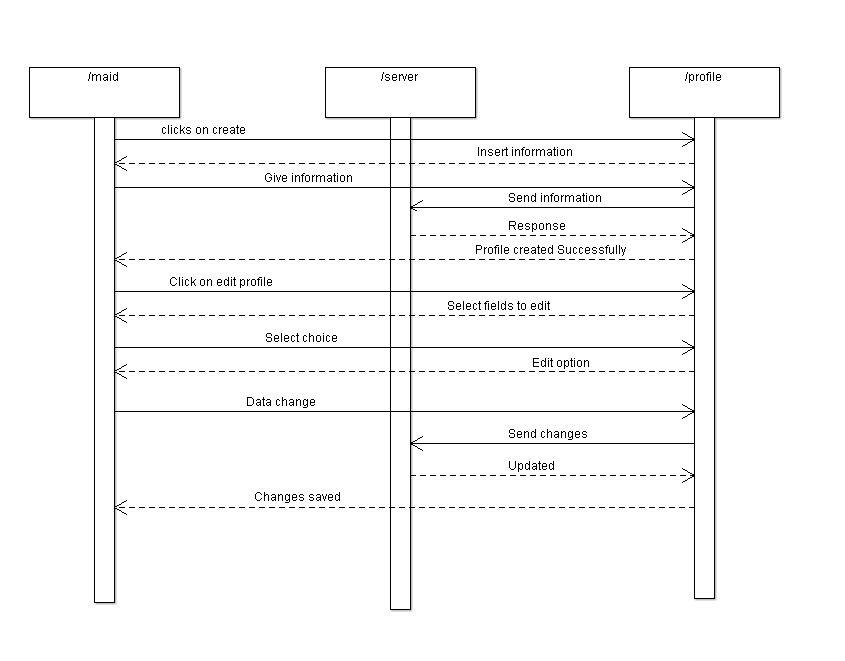
**About page**

****

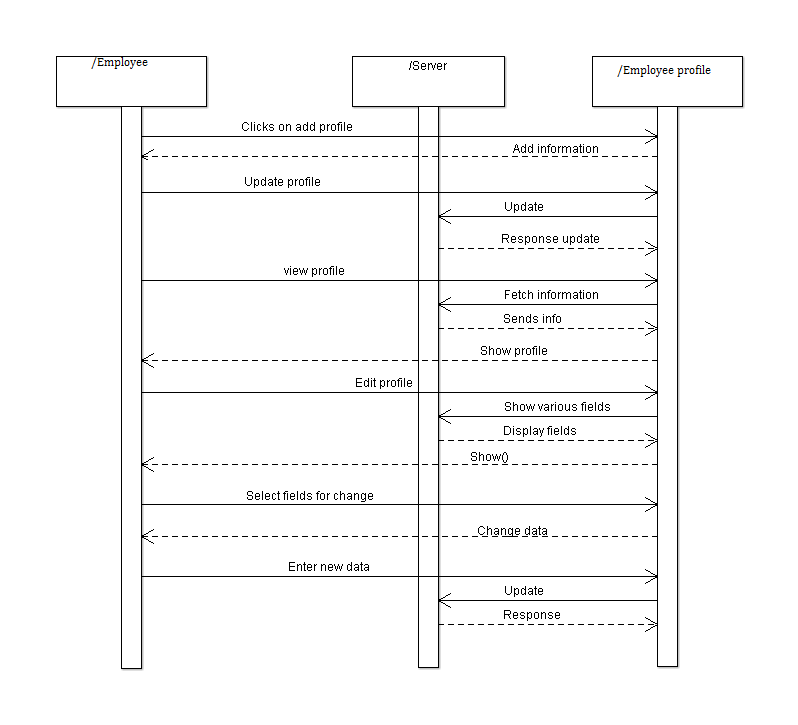
**Feedback**

****

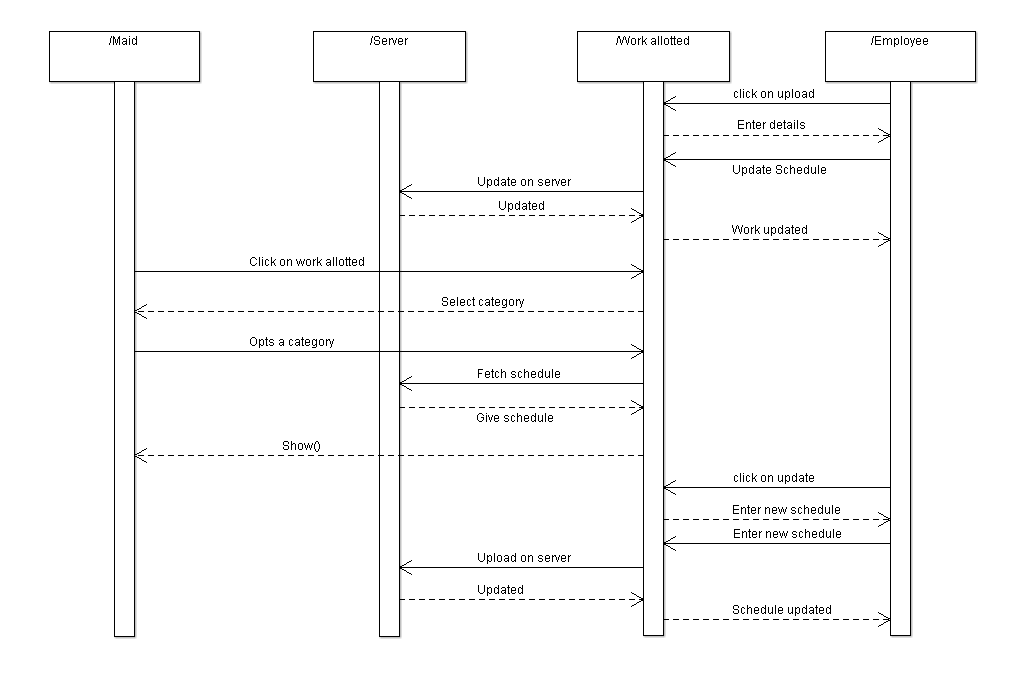
**Maid profile**

****

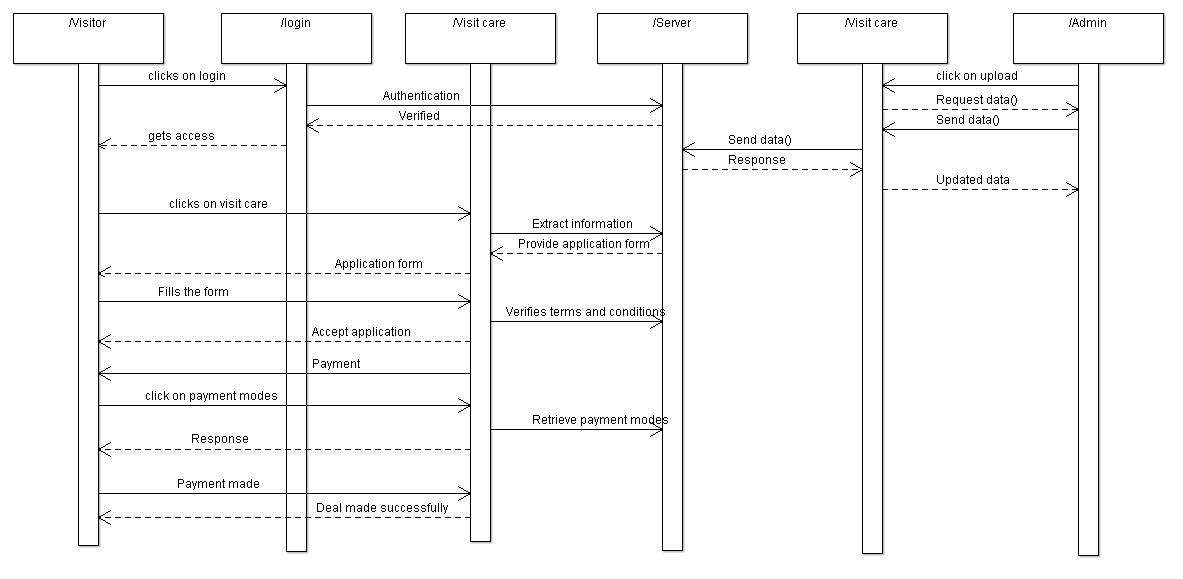
**Employee Profile**

****

**Work allotted**

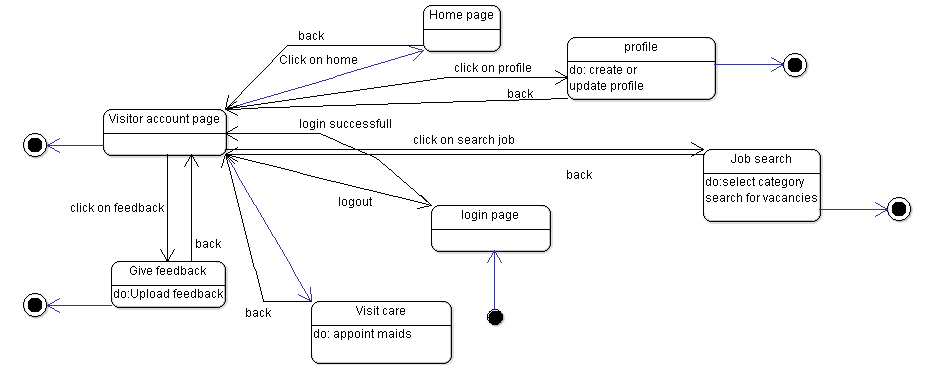
****

**Visit care**

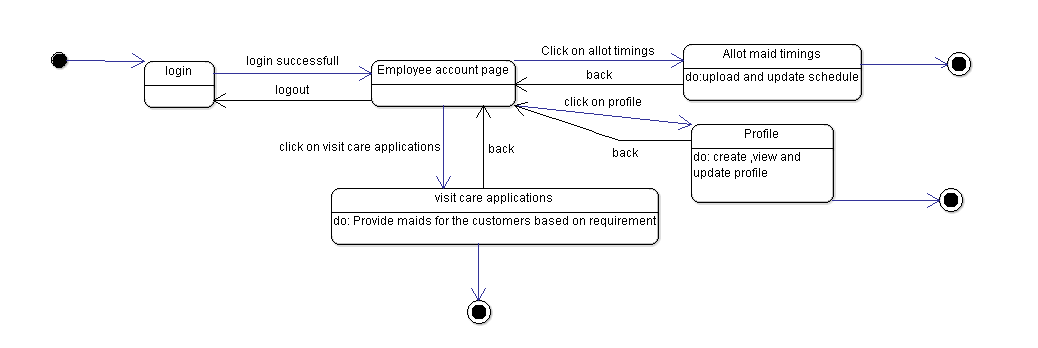
****

**State diagrams**

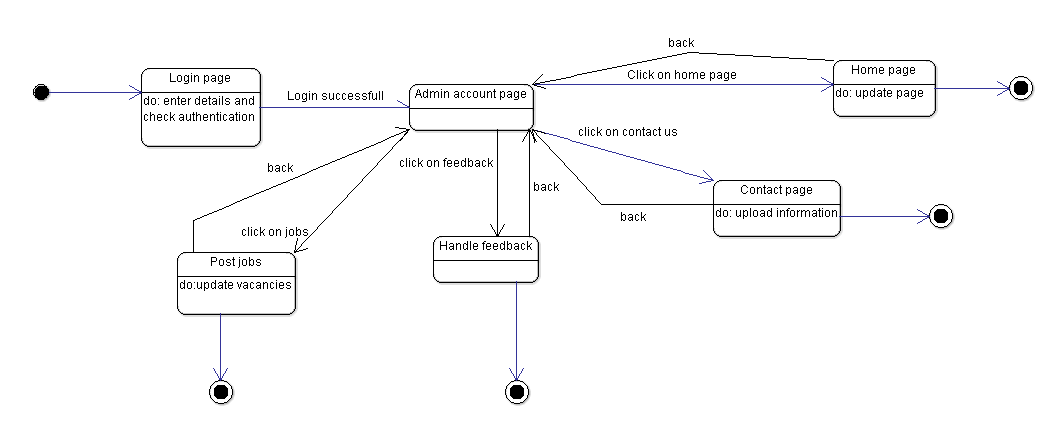
**Visitor account page**

****

**Employee Account page**

****

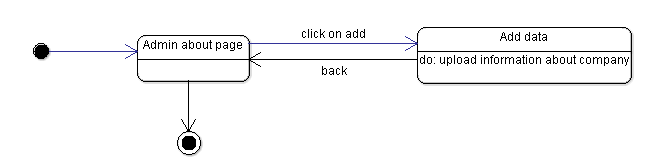
**Admin Account page**

****

**Admin post vacancies**

****

**Admin about page**



**3.1 Logical Architecture Description**

Sequence diagrams and state diagrams are drawn to depict the flow of actions related to the website.

**3.1.1 Sequence Diagram:**

In the Sequence diagram a role will be defined by a rectangular box , arrow represents a sent message and the response for that message is shown by dotted line.The messages with response are called synchronous messages.

**3.1.1.1 Home page**

Home page contains access to the about page ,contact page, it also provides an option for job search. This makes it easier for the visitors to search for the jobs they require.

**3.1.1.2 About page**

This page contains certain information regarding the company. This will be updated by the admin every time if necessary.Visitors , employees and maids will have access to this page.

**3.1.1.3 Feedback**

Feedback page provides an option for the customers who have contacted the company for visit care to give the feedback of the maids based on their work.

**3.1.1.4 Maid Profile**

The maids working for the company should have their profile created and up to date.They can access this profile page by logging in and clicking on create or edit profile option.

**3.1.1.5 Employee Profile**

The employees working for the company also have their profiles created. Employee have a separate login to their account and they have to create their profile and also keep it updated with time.

**3.1.1.6 Work allotted**

The maids working in the company will be allotted certain timings and separate slots for their work. The schedule of their work will be updated with time by the employees.

**3.1.1.7 Visit care**

This feature allows the customers to contact the company if they need maids for their household work. This will be a contract between the customer and the company for a certain period of time.These applications are handled by employees.

**3.1.2 State Diagram**

Intial state is being shown by starting with a black dot. Final state is being shown by the black dot surrounded by a circle. Do defines the operations that are to be done

**3.1.2.1 Visitor Account page**

Initially a login is required to be done by the visitors in order to access some of the features of the website. After logging into the website by entering the credentials he can access various features like create or update profile, job search, can access the home page

**3.1.2.2 Employee Account Page**

After logging in to the website using the correct credentials an employee can have access to some features like allot maid timings , can upload or update profile, and also handles the visit care applications.

**3.1.2.3 Admin Account page**

Admin is the one who has access to all the features of the website. He can login using the credentials and also have the access to check for the authentication.. He posts the job vacancies which can be viewed by the visitors, Updates the contact page, updates the home page and also handles the feedback.

**3.1.2.4 Admin post vacancies**

Admin posts the job vacancies so that people who are in need of the jobs can access the website and search for jobs in their selected category by logging into the website.

**3.1.2.5 Admin About page**

In the about page the admin enters the data regarding the company by clicking on add button and upload the information.

**3.2 Class name: View Profile()**

Description:

1. When the user clicks on the view profile button, it redirects the user to the profile page.

2. This will show the information related to the profile of the person accessing the site.

**3.3 Class name: About**

Description:

1. Click on the about button to access the about page.

2. This gives the information present on the about page which is updated by the admin.

**3.4 Class name: Home**

Description:

1.By clicking on the home button we can access the home page of the website.

2.This page provides access to about page, contact page .Job search is the option that is available in the home page that allows people to apply for jobs if necessary.

**3.5 Class name: Contact**

Description:

1. Contact page can be accessed by clicking on contact us in the home page.

2. Contact page contains the details of the company through which a user can get in contact with the company.

**3.6 Class name: Login**

Description:

A user is required to login into the website before he can access all of its features. Login involves authentication where a user enters his username or email and his password. Then if the given details are correct the user can login successfully and goes to home page. Or else he will be again redirected to the login page.

**3.7 Class name: Log out**

Description:

This is optional for a user to logout from their account. It can simply be accessed by clicking the logout or sign out button.

**3.8 Class name: Create Profile**

Description:

This option would be useful for maids as well as employees working for the company. The user enters the necessary details to create a profile and that would be successful.

**3.9 Class name: Register**

Description:

Registration only happens the first time you access the system.  It is a way to check your credentials.  Every time after your initial registration, you will log on to the system using the username and password you created

**4.0 Execution Architecture**

This is a website which requires active internet connection for working and also the system in which it is being used must be in a good working condition.

**4.1 Reuse and relationships to other products**

* NIL

**5.0 Pseudo code**

**Class name:Login**

1. Form action=lin.php Method=Post

2. $username=$POST['email']

3. $password=$POST['pass']

4. $con.”select\* from `details` where `email`=’$email’ && `pass=’$password’

5. if($user=admin)

6. {

7. if($username==valid && $password==valid)

8. {

9. echo "Login successfull";

10. refresh:2;url=admin page.php"

11. }

12. else

13. {

14. echo "Login failed";

15. refresh:2;url=login.php

16. }

17. }

18. else {

19. if($username==valid && $password==valid)

20. echo "Login successfull";

21. refresh:2;url=user page.php

22. }

23. else

24. {

25. echo "Login failed";

26. refresh:2;url=login.php

27. }

28. }

**Class name: Logout**

1. session\_start();

2. if(session\_destroy())

3. {

4. refresh:2;url=login.php

5. }

**Class name: View profile**

1.session\_start();

2.`username`='$username'

3.$verify = verifyUser($\_GET['username']);

4.if(!$verify)

5. {

6.$\_SESSION['errorMsg'] = "Either you do not have permission to access this profile or this profile does not exist";

7.header("location: error.php");

8.}

9.else

10.{

11.header("location:profile.php");

12.}

13..exit();

14.}

**Class name: Register**

1. <div class="header">

2. <h2>Register</h2>

3. </div>

4. <form method="post" action="register.php">

5. <?php echo display\_error(); ?>

6. <div class="input-group">

7. <label>Username</label>

8. <input type="text" name="username" value="<?php echo $username;?>">

9. </div>

10. <div class="input-group">

11. <label>Email</label>

12. <input type="email" name="email" value="<?php echo $email; ?>">

13. </div>

14. <div class="input-group">

15. <label>Password</label>

16. <input type="password" name="password\_1">

17. </div>

18. <div class="input-group">

19. <label>Confirm password</label>

20. <input type="password" name="password\_2">

21. </div>

22. <div class="input-group">

23. <button type="submit" class="btn" name="register\_btn">Register</button>

24. </div>

25. <p>

26. Already a member? <a href="login.php">Sign in</a>

27. </p>

28. </form>

**Class name: Create Profile**

1. <div class="header">

2. <h2>Admin - create user</h2>

3. </div>

4. <form method="post" action="create\_profile.php">

5. <?php echo display\_error(); ?>

6. <div class="input-group">

7. <label>Username</label>

8. <input type="text" name="username" value="<?php echo $username; ?>">

9. </div>

10. <div class="input-group">

11. <label>Email</label>

12. <input type="email" name="email" value="<?php echo $email; ?>">

13. </div>

14. <div class="input-group">

15. <label>User type</label>

16. <select name="user\_type" id="user\_type" >

17. <option value=""></option>

18. <option value="admin">Admin</option>

19. <option value="user">User</option>

20. </select>

21. </div>

22. <div class="input-group">

23. <label>Password</label>

24. <input type="password" name="password\_1">

25. </div>

26. <div class="input-group">

27. <label>Confirm password</label>

28. <input type="password" name="password\_2">

29. </div>

30. <div class="input-group">

31. <buttontype=”submit” class=”btn” name=”register\_btn”> + Create profile /button>

32. </div>

33. </form>

**Class name: Home page**

1. <?php /\* Template Name: mainhomepage \*/ ?>

2. <?php include (TEMPLATEPATH . '/header.php'); ?>

3. <div id="midbox">

4. <div id="homesidebar">

5. </div>

6. <div id="mainhome">

7. <a name="maincontent" id="maincontent"></a>

8. <h3 class="entrytitle" id="post-<?php the\_ID(); ?>"> <a href="<?php the\_permalink() ?>" rel="bookmark"><?php the\_title(); ?> </a> </h3>

9. <?php the\_content(); ?>

10. </div>

11. <?php endwhile; ?>

12. <?php else : ?>

13. <h6 class="center">Not Found</h6>

14. <p class="center">Sorry, but you are looking for something that isn't here.</p>

15. <?php include (TEMPLATEPATH . "/searchform.php"); ?>

16. <?php endif; ?>

17. </div>

18. </div>

19. </div>

20. <?php include (TEMPLATEPATH . '/footer.php'); ?>'