
Software Design Specification

for

Job Consultancy Firm

Sarthak Arora

14BCE0089

sarthak.arora2014@vit.ac.in

Surya Shekhar Chakraborty

14BCE0853

suryaschak@gmail.com

Anurag Pant

14BCE0090

anurag.pant2014@vit.ac.in

Instructor: Karthikeyan T.

Course: Software Engineering

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1. Introduction

1.1 Purpose

This document describes the design of the software used by the Job Consultancy Firm. It describes the behavior flow of the different categories of the users of the portal, and defines the appearances of the different modules of the portal.

1.2 System Overview

The system consists of two components: the administrator, and the candidate components. The candidate component will allow candidates to signup, login, and/or update their details, both personal and professional. The administrator component will allow administrators to login and access these details directly from the database based on his search queries.

1.3 Definitions, Acronyms and Abbreviations

Administrator: The people who are employees of the Job Consultancy Firm. They are the only people with access to the database, updated by the candidates.

Candidate: The job seekers who enlist and update their personal and professional details on the portal.

Client: The potential employers who contact the administrator, seeking to hire from the pool of candidates.

1.4 Supporting Materials

The resources we referred to for inspiration and ideas are:

- i. www.internshala.com
 - ii. www.vhire4u.com
 - iii. www.naukri.com
 - iv. www.monsterindia.com
 - v. www.schoology.com
-

- vi. www.elitmus.com
- vii. www.dice.com
- viii. www.cse.mse.edu
- ix. www.ieeeexplore.ieee.org
- x. www.scribd.com/document/36580099/ED-SRS-Textbook-20061009

1.5 Document Overview

In Section 2 of this document, we look at the top-level design view of the software. It includes the State transition diagram that illustrates the behavior flow of the different categories of users of the website. We expand on this in Section 3.

Section 4 enumerates and elaborates on the difference components and individual modules of the software, their purposes and functionalities.

2. Architecture

The architecture of the system is majorly dependent on the functions of the candidate and administrator components. Therefore, the system is following the functional decomposition. It starts from the functioning to be implemented and explain how both the components will be organized and are related to each other.

2.1 Overview

The system totally revolves around the data in the database which is collected from the candidate, thus the system follows the data-centered system. The data is collected in the candidate component of the system which is then accessed by the administrator component. The functions of the both the components, like adding information, updating information, and searching for a candidate, are directly related to the database maintained therefore this led to break the system in this way.

2.2 Component Candidate

The candidate component contains the login/signup module of the web application that is meant for the candidate. This component allows the candidate to create an account on the server and to upload their personal and professional details onto their account. Additionally, this component prevents unauthorized access to the personal and professional details of the candidates by providing a secure login for the candidates. These details can further be updated by the candidate using the update module which is also a part of this component. These details are stored in the database on the server. This component is integral to the web application since majority of the interaction with the candidate is regulated through this component.

2.3 Component Administrator

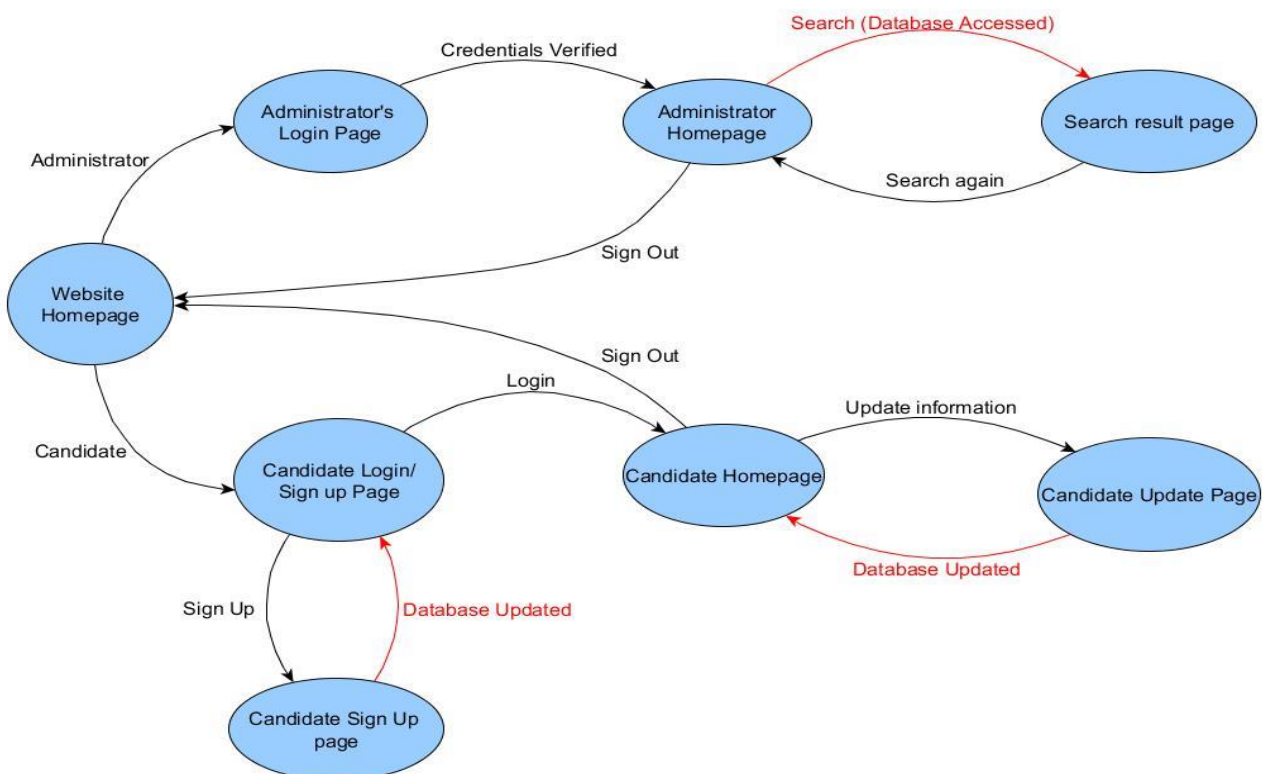
The administrator component contains the login component for the system administrators who work for the job consultancy firm. These administrators use this component to access the database of all the clients that have created an account on the server. This component prevents unauthorized access to the database by anyone else other than the system administrators by providing a secure login for the administrators. Furthermore, on receiving requests from the clients regarding job openings, the system administrators can make use of the search module available on the administrator component. In the search module, the administrators input the client requirements and in turn receive a list of candidates from the database, that match these requirements. The names of the candidates are then sent over to the clients for a fees per name of the candidate (that had been agreed upon by the client and the job consultancy firm earlier).

3. High-Level Design

The flow of the control inside the website is as follows:

1. The user lands on the website homepage upon going to the URL of the website.
 2. The user chooses whether to login as a Candidate or as an Administrator. If he chooses Administrator, go to Step 8.
 3. The user will be redirected to the Candidate Login/Sign up Page.
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4. From there, he can either choose to Login, or Signup. If he chooses Login, go to Step 6.
5. The user will be redirected to the Signup Page. There he will get to enter his details for the first time. Once he is done, he clicks Submit. The database is updated with his information. Go to Step 3.
6. On the Login Page, the user will be asked for his email ID and password. Upon entering correctly, he will be redirected to the Candidate Home Page.
7. In the Candidate Home Page, he can either click Sign-Out and go to Step 1. Otherwise, he can choose to update his information, which again updates the database.
8. He will be asked to enter his email ID and password. Go to Step 9 when the correct credentials have been entered.
9. He will be taken to the Administrator Home Page.
10. He can choose to Sign-Out and go to Step 1.
11. He can search for suitable candidates by accessing the database. Go to Step 9.



4. Low-Level Design

The modules of the software have a common-environment coupling, since the modules all reference a single data area, i.e. the common database created when candidates signup and login. The same database is updated by candidates and accessed by administrators.

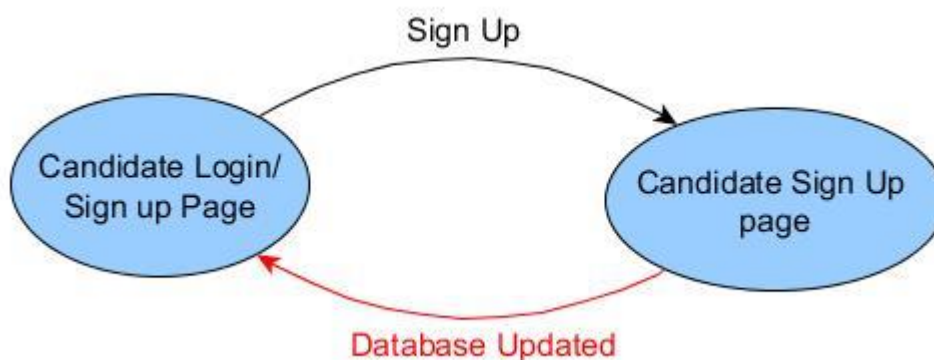
4.1 Modules Overview

The software we are making for the Job Consultancy Firm has 5 modules, 3 for the Candidate Component, and 2 for the Administrator Component. The modules under candidate component are the signup page, the login page, and the update page. These help candidates make a profile for themselves on our job portal. The modules under the administrator component are the login page, and the search page. These help administrators look for suitable matches from its existing database of candidates.

4.2 Module Specifications

The module specifications of the 5 modules have been illustrated below.

4.2.1 Module Candidate Signup



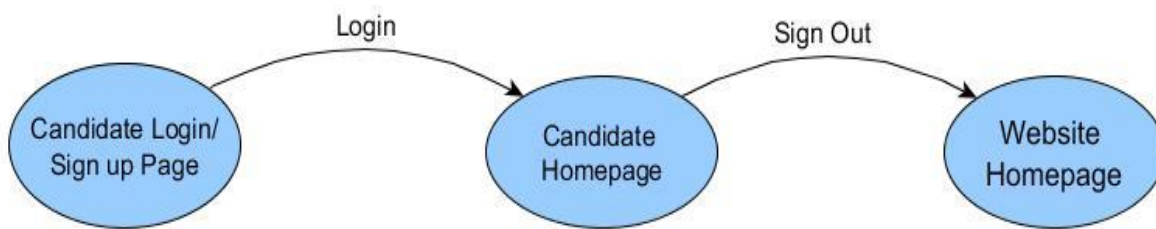
Name: Candidate Signup

Short Description: This module allows the candidate to create an account on the server and enter his/her personal details into the database to be

eligible for job openings.

Container Component: Component Candidate. This allows all the modules related to the candidate to be logically grouped together under one component.

4.2.2 Module Candidate Login

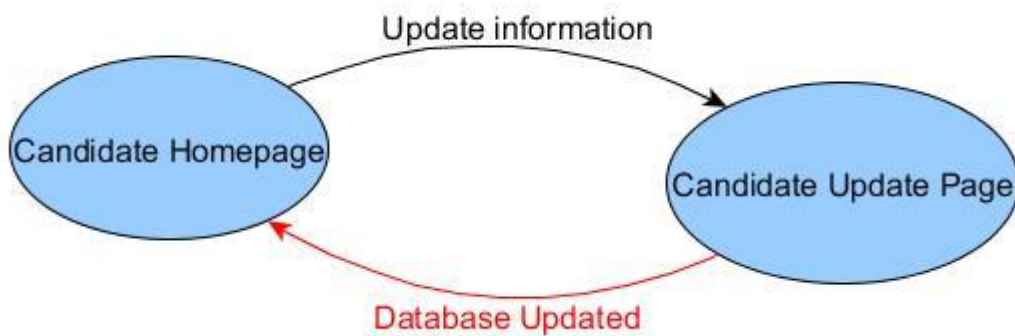


Name: Candidate Login

Short Description: This module allows the candidate to access their account which they have created on the server.

Container Component: Component Candidate. This allows all the modules related to the candidate to be logically grouped together under one component.

4.2.3 Module Candidate Update

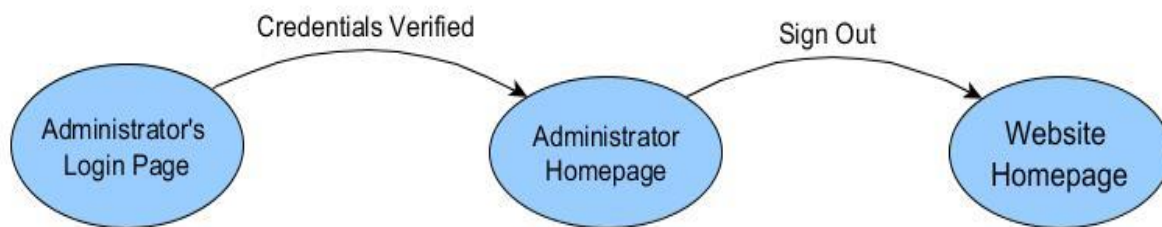


Name: Candidate Update

Short Description: This module allows the candidate to update their personal and professional details on the database.

Container Component: Component Candidate. This allows all the modules related to the candidate to be logically grouped together under one component.

4.2.4 Module Administrator Login

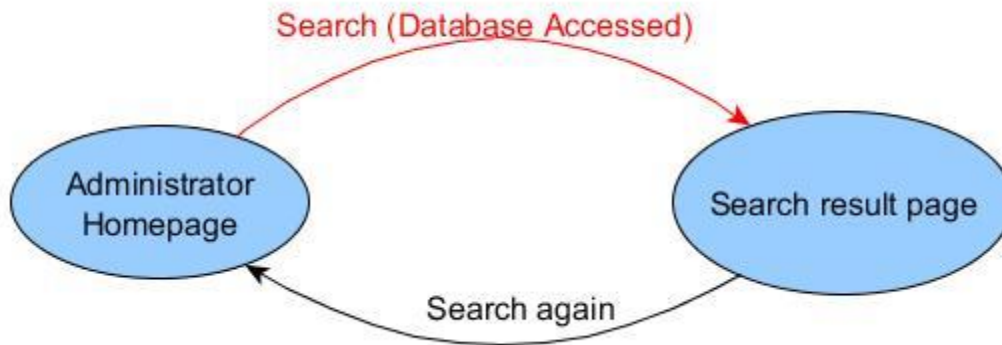


Name: Administrator Login

Short Description: This module allows the system administrators to login to their accounts to access the entire database of candidate details.

Container Component: Component Administrator. This allows all the modules related to the administrator to be logically grouped together under one component.

4.2.5 Module Administrator Search



Name: Administrator Search

Short Description: This module allows the system administrators to search for eligible candidates by entering the requirements sent by the clients.

Container Component: Component Administrator. This allows all the modules related to the administrator to be logically grouped together under one component.