

Job Portal

HCI Project Documentation

Team ID: 4

Under Supervision of: TA/ Ahmed Hatem

Doctor of HCI: Dr/ Dina Fawzy

Agenda:

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- ✓ Main Functionality and Provided Services
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Project Requirements:

For Job Seekers (Applicants):

- **User Registration and Login:** Applicants should be able to create accounts and log in to the website.
- **Job Search Functionality:** Provide a search bar and filters to allow applicants to search for jobs based on keywords, location, job type, salary range, etc.
- **Job Listings:** Display job listings based on the applicant's search criteria, including job title, company name, location, and a brief description. **Job Details:** When an applicant clicks on a job listing, they should be able to view detailed information about the job, including responsibilities, qualifications, benefits, and how to apply.
- **Apply for Jobs:** Provide a way for applicants to apply for jobs directly through the website, including submitting their resume.
- **Save Jobs:** Allow applicants to save job listings they are interested in for future reference.
- **User Profile:** Allow applicants to create and manage their profiles, including updating their contact information, resume, and job preferences.

For Companies:

Company Registration and Login: Companies should be able to create accounts and log in to the website.

Post Jobs: Provide a way for companies to post job listings, including job title, description, location, qualifications, and how to apply.

Manage Job Listings: Allow companies to manage their job listings, including editing, pausing, or deleting them.

View Job Applications: Allow companies to view and manage job applications submitted by applicants for their job listings.

Company Profile: Companies should be able to create and manage their profiles, including updating their contact information, company description, and logo.

Search for applicants: Provide a way for companies to search and view the profile of applicants who have applied to their job postings

Targeted Users/Clients and Privileges

The application is intended for two main user groups: job seekers (applicants) and companies. Each user group has specific privileges tailored to their role within the system.

Job Seekers (Applicants):

- **Priority:** High
- **Persona:** Individuals actively seeking employment opportunities.
- **Privileges:**
 - Register and log in securely.
 - Search for job openings using various criteria such as keywords, location, and job type.
 - View detailed job listings with information on responsibilities, qualifications, and benefits.
 - Apply for jobs directly through the website by submitting resumes.
 - Save job listings for future reference.
 - Create and manage user profiles, including updating contact information and job preferences.

Companies:

- **Priority:** High
- **Persona:** HR representatives, recruiters, or employers seeking to hire candidates.
- **Privileges:**
 - Register and log in securely.
 - Post job listings with details including job title, description, location, and qualifications.
 - Manage job listings by editing, pausing, or deleting them as needed.
 - View and manage job applications submitted by applicants for their listings.
 - Create and manage company profiles, updating contact information, company description, and logo.
 - Search for applicants and view their profiles who have applied to their job postings.

Main Functionality and Provided Services

The system provides a comprehensive set of functionalities to facilitate the job search and hiring process for both job seekers and companies:

- User authentication and authorization for secure access.
- Advanced job search functionality with filters based on keywords, location, job type, and salary range.
- Dynamic job listing displays detailed information including responsibilities, qualifications, and benefits.
- Seamless job application submission process directly through the website.
- User-friendly profile management for both applicants and companies, allowing updates to contact information, resumes, job preferences, and company details.
- Robust job management tools for companies, enabling posting, editing, and monitoring of job listings along with applicant management.

Application Pages and Used Components

The application consists of several key pages and components to deliver its functionalities effectively:

- **Home page:** It serves as the entry point for users visiting the Job Portal Website. It provides a brief overview of the platform's features and encourages users to either log in if they already have an account or register if they are new users.
 - **Used Components:**
 - ✓ Login.
 - ✓ Sign up.
- **Login Page:** It allows users to authenticate themselves by providing their email address and password. Upon successful login, users gain access to their personalized dashboard and other features of the Job Portal Website.
 - **Used Components:**
 - ✓ Job listing.
- **Sign up Page:** It allows users to create new accounts on the Job Portal Website. Users can register as either **job seekers** or companies, providing relevant information based on their chosen role. Job seekers are required to provide their name, contact information, resume, and job preferences, while **companies** must provide their contact information, company description, and upload a company logo.
 - **Used Components:**
 - ✓ Job listing.
- **Job Listings Page:** displays a list of available job openings fetched from the database. It allows users, depending on their role (**job seeker or company**), to perform various actions such as viewing job details, applying for jobs, editing, and deleting job listings (**for companies**), and pausing or unpausing job listings (**for companies**).
 - **Used Components:**
 - ✓ Create job.
 - ✓ Edit job.
 - ✓ Job details.

- ✓ Job applications.

○ **Create Job Page:** It allows authorized users (companies) to post new job listings.

It provides a form where users can input details such as job title, company name, location, job type, job description, education and experience requirements, and instructions on how to apply for the job.

➤ **Used Components:**

- ✓ Job listing.

○ **Job Details Page:** displays detailed information about a specific job listing.

It allows job seekers to view details such as job title, company name, location, ...etc.

Additionally, job seekers can save the job for later reference or apply for the job if they are interested.

➤ **Used Components:**

- ✓ None

○ **User Profile Page:** is responsible for displaying and updating user profiles. It distinguishes between job seekers and companies, providing different views and functionalities based on the user's role. Job seekers can view and edit their personal information, including name, contact information, job preferences, and upload or update their resume.

Companies, on the other hand, can view user profile only if he applied for a job at this company.

➤ **Used Components:**

- ✓ None.

○ **Company Profile Page:** responsible for managing the display and editing of company profiles. It provides functionality for company users to view their profile information, including email, contact info, company description, and logo.

Users can also edit their profile information, including updating contact info, company description, and uploading a new company logo.

➤ **Used Components:**

- ✓ None.

- **Edit Job Page:** it allows companies to edit their own job details such as job title, company name, country, education level, experience, job description, location, job type, and how to apply. Companies can make changes to these details and save them, updating the job listing in the system.
 - **Used Components:**
 - ✓ None.
- **Saved Jobs Page:** it displays a list of jobs that the user has saved for later viewing. Users can view details of the saved jobs, apply for them, or unsave them if they're no longer interested.
 - **Used Components:**
 - ✓ Job details.
- **Job Applications Page:** it displays a list of users who have applied for a specific job. It allows the admin or recruiter to view details of the applicants, such as their name, role, and contact information. Additionally, the admin can reject applications if needed.
 - **Used Components:**
 - ✓ Profile.

The applied services, parameters, and examples of requests.

Firestore Authentication Service

○ **Purpose:** Used for user registration and login functionality.

○ **Endpoints**

➤ **POST /register:** Register a new user.

Parameters:

- ✓ **email:** User's email address.
- ✓ **password:** User's chosen password.
- ✓ **User data:** in case of job seeker (name, contact Info, resume, job Preference and saved Jobs), for a company (contact Info, company Description and logo)

Example Request:

```
{
  "email": "example@example.com",
  "password": "password123",
  "userData": {
    "name": "John Doe",
    "contactInfo": "123-456-7890",
    "resume": "Link or file path",
    "jobPreference": "Software Engineer",
    "savedJobs": []
  }
}
```

Example Request 2:

```
{
  "email": "company@example.com",
  "password": "password123",
  "userData": {
    "contactInfo": "123-456-7890",
    "companyDescription": "Description of the company",
    "logo": "URL or file path"
  }
}
```

➤ **POST /login:** Log in an existing user.

Parameters:

- ✓ **email:** User's email address.
- ✓ **password:** User's password.

Example Request:

```
{  
  "email": "example@example.com",  
  "password": "password123"  
}
```

Job Service

○ **Purpose:** The Job Service manages CRUD (Create, Read, Update, Delete) operations for job listings in the Job Portal Website.

○ **Applied Services**

➤ Firebase Firestore: Used for storing and retrieving job data.

○ **Methods**

✓ `addJob(job: Job):`

- Purpose: Adds a new job listing to the database.

- Parameters:

`job`: Object containing details of the job listing.

🚦 Example Request:

```
const newJob: Job = { ... };  
jobService.addJob(newJob);
```

✓ `getAllJobs():`

- Purpose: Retrieves all job listings from the database.

```
jobService.getAllJobs().subscribe(jobs => {  
  // Process retrieved job listings  
});
```

✓ `deleteJob(job: Job):`

- Purpose: Deletes a job listing from the database.

- Parameters:

`job`: Object containing details of the job listing to be deleted.

🚦 Example Request:

```
const jobToDelete: Job = { ... };  
jobService.deleteJob(jobToDelete);
```

✓ updateJob(job: Job):

- Purpose: Updates an existing job listing in the database.
- Parameters:
 - job: Object containing updated details of the job listing.

🔧 Example Request:

```
const updatedJob: Job = { ... };  
jobService.updateJob(updatedJob);
```

✓ unsaveJob(userData: any, job: any):

- Purpose: Removes a saved job from a user's list of saved jobs.
- Parameters:
 - ✓ userData: Object containing user data.
 - ✓ job: Object containing details of the job to be unsaved.

🔧 Example Request:

```
const user: any = { ... };  
const jobToUnsave: any = { ... };  
jobService.unsaveJob(user, jobToUnsave);
```

✓ getJobById(jobId: string):

- Purpose: Retrieves a specific job listing by its ID from the database.
- Parameters:
 - jobId: ID of the job listing to retrieve.

🔧 Example Request:

```
const jobId: string = '123456789';  
jobService.getJobById(jobId).subscribe(job => {  
  // Process retrieved job listing  
});
```

The mandatory fields of each page

1. Sign Up:

➤ As a job seeker:

- ✓ Email
- ✓ Password
- ✓ Role.
- ✓ Name
- ✓ Resume.

➤ As a Company:

- ✓ Email.
- ✓ Password.
- ✓ Role.

2. Sign in:

- ✓ Username.
- ✓ Password.

3. Create job:

- ✓ job title.
- ✓ company name.
- ✓ Location.
- ✓ Country.
- ✓ job type.
- ✓ job description.
- ✓ Education.
- ✓ Experience.
- ✓ How to apply.

User Manual

1. Introduction

Welcome to the Job Portal Website! This user manual will guide you through the features and functionalities available for both job seekers (applicants) and companies on our platform.

2. Job Seekers (Applicants)

2.1 User Registration and Login

- To access the full features of the Job Portal Website, applicants need to create an account by registering with their email address and password.
- After registration, applicants can log in to their accounts using their credentials.

2.2 Job Search Functionality

- Utilize the search bar and filters provided to search for job openings based on keywords, location, job type, salary range, etc.

2.3 Job Listings

- Browse through the displayed job listings based on your search criteria, including job title, company name, location, and a brief description.

2.4 Job Details

- Click on view in the job listing page to view detailed information about the job, including responsibilities, qualifications, benefits, and how to apply.

2.5 Apply for Jobs

- Apply for jobs directly through the website by following the application instructions provided in the job details. You can press on the apply button.

2.6 Save Jobs

- Save job listings you are interested in for future reference, allowing you to easily access them later. You can press on the save button.

2.7 User Profile

- Create and manage your profile, including updating your contact information, resume, and job preferences.

3. Companies

3.1 Company Registration and Login

- Companies can create accounts and log in to the website to access company-specific features.

3.2 Post Jobs

- Post job listings, including job title, description, location, qualifications, and application instructions.

3.3 Manage Job Listings

- Manage your job listings, including editing, pausing, or deleting them as needed.

3.4 View Job Applications

- View and manage job applications submitted by applicants for your job listings.

3.5 Company Profile

- Create and manage your company profile, including updating your contact information, company description, and logo.

3.6 Search for Applicants

- Utilize the search functionality to find and view the profiles of applicants who have applied to your job postings.

4. General Rules

- All components, modules, and services' names are in lowercase, with words separated by dashes.
- Firebase is used for storing all data.
- Guards are implemented for page routing, ensuring secure access to different sections of the website.

Team Members

Name	ID
كريمة صبحي ابو العلا عبد الخالق	20201701115
علي عبد الله محمد عبد الله	20201700504
علي ماهر طلعت السيد	20201700506
محمد علي عبد العزيز عبد العزيز	20201701233
هاني محمد علي بدر	20201700952
عبد الرحمن عبد الحليم العارف حسين	20201700442