



JOB TRACKER APPLICATION

Documentation of the whole application

Abstract

This document provides you the details of the project and how it works

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Job Tracker Application

Phase 1 - Planning and Setup

Introduction

This document provides detailed instructions for Phase 1 of the Job Tracker Application development. The goal of this phase is to plan the project structure, set up the development environment, and establish the core components for the frontend, backend, and database.

Deliverables

- Frameworks of the web application.
- Project planning of the features expected.
- Definition of the architecture and the usage.
- Initial setup needed for the frontend, backend, and database.

Technology used:

Category	Technology/Tool	Purpose
Frontend Framework	React	Build the user interface and handle frontend logic.
UI Library	Material-UI (MUI)	Create visually appealing and consistent UI components.
Design	Figma	Prototype and design the application's user interface.
State Management	Redux or Context API	Manage application state efficiently.
Backend Framework	Spring Boot	Build the RESTful API and handle backend operations.
Programming Languages	JavaScript/TypeScript (Frontend)	Write scalable and maintainable frontend code.

	Java (Backend)	Write backend services and business logic.
Database	MongoDB	Store job application data in a flexible NoSQL database.
Containerization	Docker	Package the app and its dependencies into containers.
Version Control	GitHub	Manage source code and collaborate on the project.
Hosting (Frontend)	Netlify or Vercel	Deploy and host the React frontend application.
Hosting (Backend)	Render or AWS Lambda	Deploy and host the backend API services.
Development Tools	Node.js and npm	Manage dependencies and run development servers.
	MongoDB Compass	Visualize and manage MongoDB data (optional).
Visualization Library	Chart.js or Recharts	Display analytics and graphs in the dashboard.
Email Notifications	Amazon SES or NodeMailer	Send follow-up reminders to users.

Features:

The below are the features which will be developed for our web application.

• Job Tracking:

- ❖ CRUD operations for job applications.
- ❖ Status updates (e.g., Applied, Interviewing, Offered).

• Analytics Dashboard:

- ❖ Visual insights using charts and graphs.

• Integrations:

- ❖ LinkedIn, GitHub, Gmail, and HackerRank for automation.

- **Notifications:**

- ❖ Reminders for interviews and follow-ups.

- **Resume Parsing:**

- ❖ Automatic extraction of job history and skills.

Framework:

The below framework's were designed using Figma, it's a mock up of the expected design which might change during the production release.

The frameworks will be updated iteratively based on the changing requirements. The below might not be the final design.

Default Home page:

Google

Google.com

ResourcesAboutContactSign inRegister

Welcome to Job Tracker

One stop shop for all your job applications

ContactAbout

About

Subheading

Lorem ipsum dolor sit amet consectetur. Malesuada et nunc nullam augue ut enim placerat leo. Vel gravida sed neque.

Lorem ipsum dolor sit amet consectetur. At ornare neque elit tincidunt sit viverra nulla. Nunc mauris feugiat scelerisque pretium tellus id et nulla. Enim eget in accumsan nisl non enim accumsan. Adipiscing magna volutpat varius rhoncus enim. Aliquam massa mi massa pellentesque ornare proin. In ridiculus tincidunt nibh in gravida id aliquet aliquet. Eget vulputate dignissim in a consectetur. Hac bibendum ullamcorper sed libero aliquam. Sit amet interdum maecenas orci aliquet nec urna non turpis. Donec non egestas neque interdum in eget.

Features

Hooray! Look at what we have

Job Tracking

Description

Integration

Description

Analytic Dashboard

Description

Notifications

Description

Resume Parsing

Description

Contact Us

Get in touch with us

Name

Value

Surname

Value

Email

Value

Message

Value

Submit

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Contact Us: info@email.com

Sign-in page:


Google

Google.com

ResourcesAboutContact

Sign inRegister

Your Logo



Sign up

If you already have an account register

You can [Login here !](#)

Email

☐ Enter your email address

Username

Enter your User name

Password

Enter your Password

Confirm Password

Confirm your Password

Register

Contact Us

Get in touch with us

Name

Surname

Email

Message

Submit



Sign-up page:


Google

Google.com

Resources About Contact

Sign in Register

Your Logo



Sign up

If you already have an account register
You can [Login here !](#)

Email

Enter your email address

Username

Enter your User name

Password

Enter your Password

Confirm Password

Confirm your Password

Register

Contact Us

Get in touch with us

Name

Value

Surname

Value

Email

Value

Message

Value

Submit



Home Dashboard:

JobTracker

Search

English

User Name

Dashboard

Integrations

Resume Parsing

Job Postings

Job Tracking

PAGES

Calender

To-Do

Settings

Logout

Dashboard

Job Tracking:

JobTracker

Search

English

User Name

Dashboard

Integrations

Resume Parsing

Job Postings

Job Tracking

PAGES

Calender

To-Do

Settings

Logout

Job Applications

Filter By

Date

Company Name

Status

Reset Filter

ID	Company	Role	Last Update	Career Page	STATUS
00001	Company Name	Test Role	04 Sep 2019	Link	Completed
00002	Company Name	Test Role	28 May 2019	Link	Processing
00003	Company Name	Test Role	23 Nov 2019	Link	Rejected
00004	Company Name	Test Role	05 Feb 2019	Link	Completed
00005	Company Name	Test Role	29 Jul 2019	Link	Processing
00006	Company Name	Test Role	15 Aug 2019	Link	Completed
00007	Company Name	Test Role	21 Dec 2019	Link	Processing
00008	Company Name	Test Role	30 Apr 2019	Link	Completed
00009	Company Name	Test Role	09 Jan 2019	Link	Processing

Showing 1-09 of 78

Architecture:

The below is the planned system design of the web application.

Version 1: Initial Test Run

This document describes the Version 1 of the Job Tracker Application, which serves as an initial test run. The features and designs outlined here represent the foundational work for the application, including planning, prototyping, and development. This version has been planned from the base, with design prototypes created in Figma.

Architecture

The system architecture for the Job Tracker Application is designed to ensure scalability, maintainability, and efficiency. Below are the main components and their roles:

- 1. Frontend:** Built using React.js with Material-UI for styling and responsiveness. The frontend communicates with the backend through RESTful APIs to manage job data and user interactions.
- 2. Backend:** Implemented using Spring Boot, which provides the RESTful API layer for business logic, data processing, and communication with the database.
- 3. Database:** MongoDB is used to store job application data with a flexible schema, ensuring that different types of job-related data can be accommodated.
- 4. Machine Learning:** A Flask server hosts the machine learning model, which parses emails and resumes, extracting key details like job positions, skills, and keywords.
- 5. Integration:** Google OAuth and Gmail API are integrated for secure authentication and automated email parsing. This provides seamless synchronization of job-related data.
- 6. Notifications:** Implemented using tools like NodeMailer or Amazon SES to send reminders for interviews and follow-ups.

Design Elements

The design for the Job Tracker Application was prototyped in Figma, allowing for rapid iterations and collaboration during the planning phase. The following pages were included in the design:

- 1. Default Home Page:** An overview page that welcomes users and provides quick access to main features.
- 2. Sign-In and Sign-Up Pages:** Secure authentication flow for new and returning users.
- 3. Home Dashboard:** Displays a summary of job applications, status updates, and key insights. Includes visualizations for analytics.
- 4. Job Tracking Page:** Allows users to add, update, and view detailed information about their job applications.

5. Resume Analysis Page: Provides a comparison of uploaded resumes with job descriptions, highlighting strengths and improvement areas.

Planned Iterations

This document and the initial designs are subject to updates based on feedback and changing requirements. Future iterations will include enhanced analytics, collaborative features, and expanded machine learning capabilities.