



PROJECT REPORT

ReactJs  
  
Job Portal

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| **Created On:** | 01-07-2024 | **Approved On:** | 01-07-2024 |

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# **PROJECT DETAILS**

|  |  |  |  |
| --- | --- | --- | --- |
| **Project Name** | Job Portal | | |
| **Project Sponsor** | Tushar Topale | | |
| **Project Manager** | Harshada Topale | | |
| **Start Date** | 01-07-2024 | **Completion Date** | 01-08-2024 |

# **SUMMARY**

This project aims to develop a professional networking platform similar to LinkedIn, designed to help users find jobs or internships, connect with professionals, and learn new skills. The platform features user registration, profile management, job postings, connections, all built using modern web technologies like React.js.

# **INTRODUCTION**

## Background

The professional networking space is dominated by platforms like LinkedIn, which serve as a hub for career growth, networking, and job searching. However, there is a need for a more user-friendly and intuitive platform that can cater to the growing demand for professional networking, especially for young professionals and students. This project aims to fill that gap by providing an accessible and feature-rich networking platform.

## Stakeholders

* **Users:** Professionals, students, job seekers, business owners
* **Project Team:** Developers, designers, project managers
* **Sponsors:** Potential educational institutions or career service companies
* **End-users:** Individuals looking to advance their careers through networking and skill development

## Objectives

* Develop a user-friendly platform for professional networking.
* Enable users to create and manage professional profiles.
* Facilitate job postings and applications.
* Allow users to connect, message, and share updates.
* Provide a scalable and secure web application.

# **METHODOLOGY**

These conventions are all about the positions of line breaks, how many characters should go on a line, and everything in between.

## Considerations & Assumption

* Users have internet access and a basic understanding of social networking platforms.
* The platform is expected to handle moderate traffic initially with potential to scale.
* Users will provide accurate and truthful information in their profiles.

## Approach

* **Agile Methodology:** Iterative development with regular feedback loops.
* **User-Centered Design:** Focus on creating an intuitive and engaging user experience.
* **Technology Stack**: Utilizing React.js for the frontend, Firebase for database management, and deployment on Heroku/GitHub Pages.

## Activities

* Requirement Gathering: Understanding user needs and defining requirements.
* Design: Creating wireframes and prototypes of the user interface.
* Development: Coding the frontend and backend components.
* Testing: Conducting unit, integration, and user acceptance testing.
* Deployment: Hosting the application on a web server.
* Maintenance: Ongoing support and updates.

# **TARGETTED V/S ACHIEVED OUTPUT**

* Target: Development of a fully functional professional networking platform.
* Achieved: Successful deployment of the platform with key features such as registration, profile management, job postings, connections, messaging, notifications, and news feed.

# **CONCLUSION**

The professional networking platform project successfully met its objectives by providing a user-friendly interface for professional networking. The platform enables users to connect, share updates, and find job opportunities, thus enhancing their career prospects. Future enhancements may include advanced search capabilities, integration with additional third-party services, and mobile app development.

# **APPENDICES**

## Appendix A – Title

* **User Guide:**
  + **Registration**: Navigate to the registration page, fill in the required fields (name, email, password), and submit the form.
  + **Login**: Enter your registered email and password on the login page. Click on the 'Login' button to access your account.
  + **Profile Creation**: After logging in, navigate to the profile section. Fill in your professional information, skills, interests, and upload a profile picture. Save the changes.
  + **Job Search**: Use the search bar to find job postings. Apply filters to narrow down results. Click on a job posting to view details and apply.
  + **Connections**: Search for professionals using the search bar. Send connection requests and manage your connections through the connections page.
* **Technical Documentation**:
  + **System Architecture**: The platform is built using React.js for the frontend and Firebase for the backend. Firebase services such as Firestore, Authentication, and Cloud Functions are utilized. The application is deployed on Firebase Hosting.
  + **Codebase**: The codebase is structured with separate directories for components, services, and utilities. The frontend code is primarily in JavaScript, utilizing React.js for building user interfaces.
  + **APIs**: Firebase APIs are used for various functionalities:
    - **Authentication**: Firebase Authentication for user login, registration, and password recovery.
    - **Database**: Firestore for storing user profiles, job postings, messages, and notifications.
    - **Storage**: Firebase Storage for handling profile pictures and other media files.
    - **Functions**: Firebase Cloud Functions for server-side logic and processing.
* **Test Cases:**
  + **User Registration**:

**Test Case 1**: Verify that a new user can register with valid details.

**Expected Outcome**: User receives a verification email and account is created.

**Test Case 2**: Verify that registration fails with an already registered email.

**Expected Outcome**: Error message 'Email already exists' is displayed.

* + **User Login**:

**Test Case 1**: Verify that a user can log in with valid credentials.

**Expected Outcome**: User is redirected to the dashboard.

**Test Case 2**: Verify that login fails with invalid credentials.

**Expected Outcome**: Error message 'Invalid email or password' is displayed.

* + **Profile Management**:

**Test Case 1**: Verify that a user can update their profile information.

**Expected Outcome**: Profile is updated and changes are saved.

* + **Job Postings**:

**Test Case 1**: Verify that a business can post a new job.

**Expected Outcome**: Job is posted and visible in the job search results.

* + **Connections**:

**Test Case 1**: Verify that a user can send a connection request.

**Expected Outcome**: Connection request is sent and notification is received by the recipient.

* + **References**:
  + **Documentation**:

React.js official documentation: https://reactjs.org/docs/getting-started.html

Firebase documentation: <https://firebase.google.com/docs>

* + **Libraries and Frameworks**:

React.js for frontend development

Firebase for backend services and hosting

* + **Tools**:

Postman for API testing

GitHub for version control and collaboration