**Deliverable 5 Job Hunt/Hub - Connect**

**Development Phase 3**

**Enhanced Functionality**

In Phase 3, we focused on delivering critical enhancements to the JobHunt platform, providing users with valuable resources and insights to streamline their job search experience. The key features implemented in this phase include:

**Front End Enhancements (Critical Features):**

* **Frequently Asked Questions (FAQs) Page:**

The FAQ's page serves as a comprehensive knowledge base, providing users with answers to commonly asked questions about the job hub platform, account management, job application process, and more.

* **Statistics Page:**

The Statistics page summarizes users' job application activity, showcasing their monthly and weekly application numbers.

It provides a clear snapshot of their job search progress, aiding them in refining their strategies. With accessible data visualization, this feature empowers users to optimize their job hunt effectively.

* **Review Details Functionality:**

The Review Details functionality allows users to review and update their profile information after applying for jobs.

It presents users with pre-filled details retrieved from their profile, offering the flexibility to edit or add new information as needed.

**Back End Improvements (Critical Features):**

* **User Data Storage:**

The backend has been expanded to store additional user details, such as resume/CV files and application history, in a secure database.

* **Statistics Data Retrieval:**

The backend provides functionality to retrieve job application data for generating statistics and visualizations on the front-end.

* **User Data Retrieval:** The backend offers endpoints to retrieve user data and applied job details.

**Server Enhancements (Critical Aspects):**

* **Reliable Hosting:**

To ensure availability and reliability during project development and demonstrations, the application has been deployed on a reliable hosting platform.

**Requirements for Phase 3:**

In Phase 3, we have adjusted our priorities to concentrate on delivering critical enhancements that will significantly improve the user experience and provide valuable resources for job seekers. The decision to streamline our efforts was driven by the need to ensure efficient development and timely delivery, while prioritizing features that offer the most value to our users.

While our initial plans included additional features such as **Community Engagement Features**, we have temporarily set them aside to focus on the core functionalities that will have the most immediate impact.

The revised Phase 3 plan focuses on the following key areas:

1. **Frequently Asked Questions (FAQs):**

* We recognize the importance of providing users with a comprehensive knowledge base to address common queries and concerns.
* By implementing a user-friendly FAQ's page, we aim to empower users with easy access to essential information, promoting self-service problem-solving and enhancing the overall user experience.

1. **Statistics:**

The Statistics page displays users' monthly and weekly job application counts, facilitating better job search management and strategy refinement. Through clear data visualization, users can optimize their job hunt effectively.

1. **Review Details:**

* Ensuring accurate and up-to-date user profiles is essential for successful job applications.
* The Review Details functionality will allow users to review and update their profile information before applying for jobs.
* By presenting pre-filled details and offering the flexibility to edit or add new information, we aim to streamline the application process and improve users' chances of being considered for relevant positions.

1. **Backend Enhancements**:

* To support the new front-end features, we will implement backend improvements focused on FAQ's Management, Statistics Generation, and Review Details Management.
* These enhancements will enable efficient data management, ensuring the seamless delivery of accurate and relevant information to users.

1. **Reliable Hosting:**

* To ensure availability and reliability during project development and demonstrations, we have prioritized the deployment of the application on a robust hosting platform.
* This will provide a stable and secure environment, ensuring seamless access for users and stakeholders throughout the development process.

By concentrating our efforts on these core functionalities, we aim to deliver a high-quality user experience while laying a solid foundation for future enhancements. This focused approach will allow us to efficiently complete Phase 3 and set the stage for additional features and improvements in subsequent phases.

**Removed Functionality Justification:**

* **Community Engagement Features:**

The Community Engagement Feature typically involves tools or functionalities that encourage interaction, collaboration, and communication among platform users. This could include discussion forums, social networking features, user-generated content sections, or live chat support.

**Justification for removing the Community Engagement Feature:**

1. **Resource Constraints:** Developing and maintaining robust community engagement features requires significant resources, including time, manpower, and potentially additional technology infrastructure. With limited resources available, it's crucial to prioritize functionalities that provide the most immediate value to users.

2. **Time Constraints:** Building and refining community engagement features can be time-consuming, potentially delaying the overall project timeline. By focusing on core functionalities, we can ensure timely delivery of essential features and meet project deadlines.

3. **User Priorities:** While community engagement features can enhance user interaction and satisfaction in the long term, they may not be the highest priority for all users. By prioritizing features like FAQs, Statistics, and Review Details, we address immediate user needs and provide valuable resources for job seekers.

4. **Scalability Concerns:** Introducing complex community engagement features early in the project lifecycle can pose scalability challenges as user traffic grows. It's essential to establish a strong foundation with core functionalities before adding more advanced features to ensure seamless scalability and performance.

In summary, while community engagement features hold value for fostering a sense of community and user engagement, their implementation may not align with current project constraints and priorities. By focusing on essential functionalities like FAQs, we can deliver immediate value to users while laying the groundwork for future enhancements.

**Justification for Additional Functionalities in Phase 3:**

Justification for Phase 3 Functionalities:

1. **FAQs Implementation:**

**Justification:** We opted to implement FAQs to streamline user support and engagement. By providing a readily accessible knowledge base, we empower users to resolve queries independently, reducing reliance on support channels. This enhances user satisfaction and ensures a smoother user experience, aligning with our commitment to prioritize features that add immediate value.

2. **Statistics Integration:**

**Justification:** The Statistics page provides users with insights into their job application activity, detailing the number of jobs applied to on a monthly and weekly basis. This feature offers users a comprehensive overview of their job search efforts, allowing them to track their progress and optimize their strategies accordingly. By visualizing application data in a clear and accessible format, the Statistics page empowers users to make informed decisions and enhance their job search effectiveness.

3. **Review Details Enhancement:**

**Justification:** We recognized the importance of maintaining accurate user profiles for successful job applications. The implementation of Review Details functionality allows users to review and update their profiles, ensuring relevance and completeness. This feature streamlines the application process, increasing user efficiency and improving their chances of securing relevant positions.

In summary, the selection of these functionalities reflects our strategic approach to Phase 3 development, emphasizing user engagement, data-driven decision-making, and platform reliability. By prioritizing these enhancements, we aim to deliver a seamless and valuable experience for our users while laying the groundwork for future growth and innovation.

**UML Diagram**

In Phase 3, we introduced new features such as FAQs, statistics, and review details to enrich the user experience. However, core functionalities like sign up, sign in, apply for jobs, upload resumes, and view applied jobs were developed in Phase 1 and Phase 2.

In these diagrams, we are using previous functionalities to represent the UML Diagrams.

**Class Diagram:**

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**FastAPI:**

* **add\_middleware**: Adds middleware to the FastAPI application.
* **post**: Defines a route handler for HTTP POST requests.
* **get**: Defines a route handler for HTTP GET requests.

**User:**

* **signup**: Creates a new user account with the provided email and password.
* **signin**: Authenticates a user with the provided email and password.

**AppliedJobs:**

* **useEffect**: Fetches the stored job data from local storage when the component mounts.
* **handleFilter**: Filters the stored job data based on the selected filter value.
* **render**: Renders the list of applied jobs and the filter dropdown.

**SingleAppliedJobs:**

* Displays the details of a single applied job.

**Review:**

* **useEffect**: Fetches user data, applied job details, and resume when the component mounts.
* **fetchUserData**: Retrieves user data from the server based on the logged-in user's email and job ID.
* **fetchAppliedJob**: Retrieves applied job details from local storage based on the job ID.
* **fetchResume**: Retrieves the user's resume from the server based on the logged-in user's email and job ID.
* **downloadResume**: Initiates the download of the user's resume.
* **render**: Renders the user's personal details, applied job details, and resume.

**Statistic:**

* **useEffect**: Fetches job application data from local storage when the component mounts.
* **render**: Renders charts displaying job application statistics for the current month and week.

**FAQ:**

* **render**: Renders the frequently asked questions and their corresponding answers.

These descriptions provide a high-level overview of the main responsibilities and functionalities of each function or method in the code. They should give you a general idea of what each part of the code does without going into the implementation details.

**Sequence Diagram:**

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This sequence diagram incorporates the relationships and interactions between the components based on the provided UML class diagram and code.

1. **User signup**: Frontend sends POST request to /api/signup, backend creates user in Firebase DB, returns success response to frontend, informing user of successful signup.

2. **User signin**: Frontend sends POST request to /api/signin, backend retrieves user by email from Firebase DB, authenticates user, returns success response to frontend, informing user of successful signin.

3. **Job application:** Frontend sends POST request to /api/insertData, backend inserts user data into Firebase DB, returns success response to frontend, informing user of successful application.

4. **Resume upload**: Frontend sends POST request to /api/upload, backend uploads resume to Firebase Storage, returns success response to frontend, informing user of successful upload.

5. **View applied jobs**: Frontend sends GET requests to /api/getUserData and /api/getResume, backend retrieves user data and resume URL from Firebase, respectively, returns data to frontend, which displays applied jobs and resume.

6. **View job application statistics**: Frontend interacts with Statistic component to render statistics fetched from local storage, displaying them to user.

7. **View FAQ**: Frontend interacts with FAQ component to render questions and answers, directly displaying FAQ to user.

8. **Applied jobs display**: Frontend interacts with AppliedJobs component, which interacts with Review component to access review data and SingleAppliedJobs component to render individual jobs, displaying applied jobs and review data to user.

9. **Statistics display**: Frontend interacts with Statistic component to render statistics fetched from local storage, displaying them to user.

10. **FAQ display**: Frontend interacts with FAQ component to render questions and answers, directly displaying FAQ to user.

**Use case Diagram (Normal handling):**

**A diagram of a job application system

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In this use case diagram:

**Actor:**

* **User:** Interacts with the job application system.

**Use Cases:**

* **Sign Up:** User creates a new account.
* **Sign In:** User logs into their existing account.
* **Apply for Job:** User applies for a job listing.
* **Upload Resume:** User uploads their resume.
* **View Applied Jobs:** User views the list of applied jobs.
* **View Job Application Statistics:** User views statistics related to job applications.
* **View FAQ:** User views frequently asked questions.

**Backend Operations:**

* **Create User Account:** Backend creates a new user account.
* **Authenticate User:** Backend authenticates user credentials.
* **Store User Data:** Backend stores user data for job applications.
* **Store Resume:** Backend stores user-uploaded resumes.
* **Retrieve User Data:** Backend retrieves user data for viewing applied jobs.
* **Retrieve Resume:** Backend retrieves user resumes for viewing applied jobs.

In Phase 3, we introduced features like FAQs, statistics, and review details to enrich the user experience, while Phase 1 and Phase 2 primarily concentrated on core functionalities like sign-up, sign-in, job lisiting, job applications, resume uploads, and viewing applied jobs.

**Use Case Diagram (Error case handling):**

**A diagram of a job application

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* Use case diagram for job application system with error handling.
* Main use cases include Sign Up, Sign In, Apply for Job, etc.
* The backend system supports functionalities like Create User Account, Authenticate User.
* Error cases include Handle Sign Up Error, Handle Job Application Error, etc.
* Error cases extend from main use cases.
* Diagram ensures comprehensive view of system functionality and error handling.

**TEST CASES:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Functionality** | **Inputs** | **Expected Results** | **Actual Results** |
| View job application statistics when data is available | User accesses the Statistics page by clicking on the Statistics link in the platform's navigation menu. | Job application statistics will be displayed accurately | Job application statistics are accurately displayed. |
| View FAQ page and search functionality | User accesses the FAQ page by clicking on the FAQ link in the platform's navigation menu. | FAQ page will be displayed with relevant questions and answers based on the search term | FAQ page is displayed with relevant questions and answers based on the search term |
| Review application with complete and missing information | Empty | Application review page displays submitted information accurately for missing required information | Application review page displayed submitted information accurately for missing required information |
| Reviewed application | Empty | Application information will be submitted application is confirmed | Application information is submitted application is confirmed |
| Updating personal Information without error | User Updating details | Successfully Update | Successfully Update |
| Updating Personal Details with some missing fields | Empty | User will get an error saying all fields are required | User gets an error saying all fields are required |
| Navigation between different pages (statistics, FAQ, review) | User accesses the Statistics page by clicking on the (statistics, FAQ, review) link in the platform's navigation menu. | User could seamlessly navigate between the different pages without any errors | User can seamlessly navigate between the different pages without any errors |

**Test Case 1:** View job application statistics when data is available.

After Applying job, User will be able to see the how many jobs applied in monthly and weekly basis.

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**Test Case 2:** View FAQ page and search functionality.

FAQ page is displayed with relevant questions and answers based on the search term.

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Users will be able to see all the FAQ’s based on search term.

**Test Case 3:** Review application with complete and missing information.

The application review page displays submitted information accurately and missing required information (Error occurred due to backend not responding at the time of submitted).

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**Test Case 4:** Reviewed application

Application information is submitted application is confirmed and displayed submitted information by user.

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**Test case 5:** Updating Personal Details with some missing fields.

User will get an error saying all fields are required.

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**Test case 6:** Updating Personal Information for applied Jobs.

**Before edit:**

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**After edit:**

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**Test case 6:** Navigation between different pages (statistics, FAQ, review).

Users can seamlessly navigate between the different pages without any errors**.**

**Review Details:**

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**FAQ’s:**

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**Stats:**

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**User Manual Guide(Walk Through):**Please go to <http://localhost:5173/registerPage>After the Registration, You need to go to[http://localhost:5173/](http://localhost:5173/loginPage)

**Step-1: User Registration Screen  
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Step-2 User Login Screen**After entering correct details, it will redirect to Home Page. ( <http://localhost:5173/home> ) **A screenshot of a computer

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**Step-3 User Home Page (** ( <http://localhost:5173/home> ). **A person with his arms crossed

Description automatically generated**

**Step-4 Home- Job Categories** ( <http://localhost:5173/home> ).

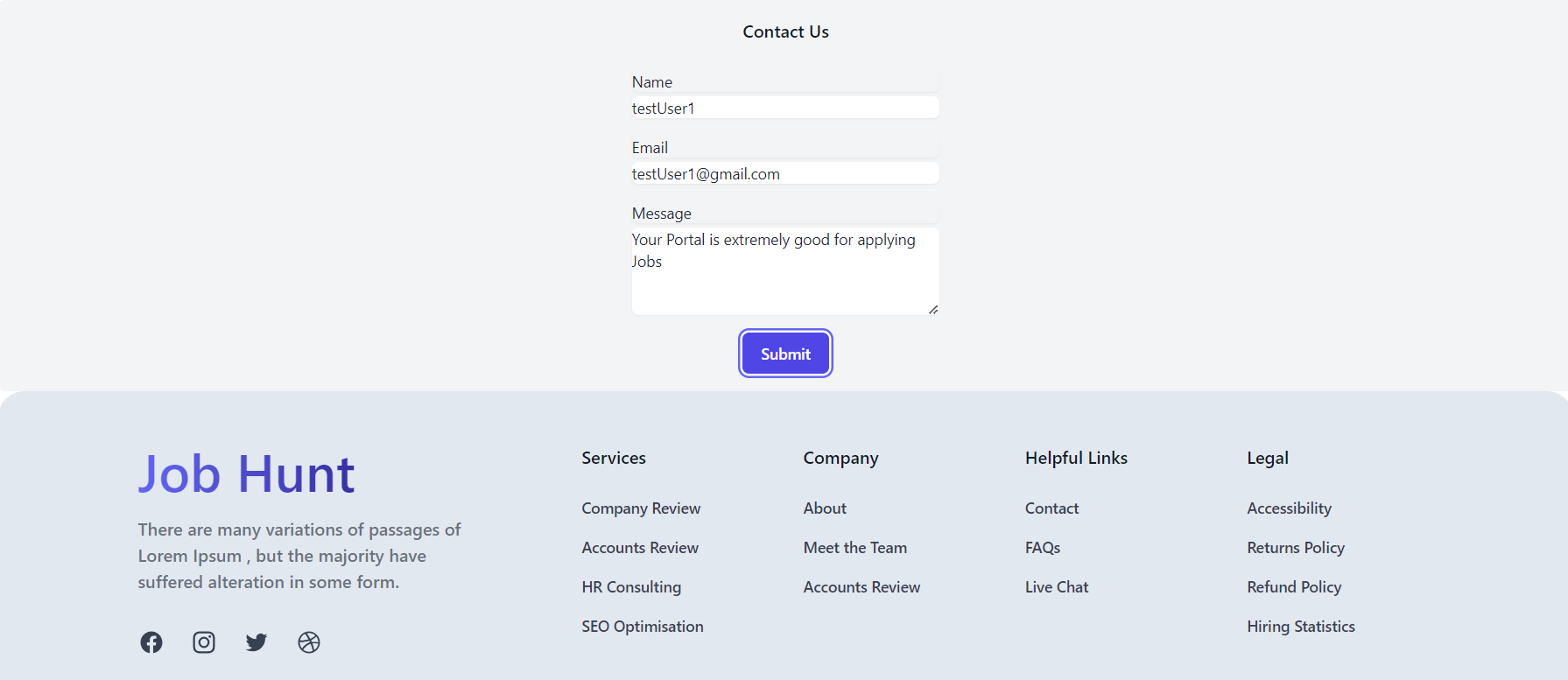
Job Categories List will be displayed in Home page. **A close-up of a card

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**Step-5 Home- Featured Jobs** ( <http://localhost:5173/home> ).

Featured Jobs Listing in Home Page. **A screenshot of a computer

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**Step-6 Home - Contact Page** ( <http://localhost:5173/home> ). ****

**Step-7 To See all the jobs, Click on Start Applying in Navigation bar. (** [**http://localhost:5173/allJobs**](http://localhost:5173/allJobs)**).**

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**Step-8 /allJobs - Search Functionality. (** [**http://localhost:5173/allJobs**](http://localhost:5173/allJobs) **).**

Searched based on Role.

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**Step-9 When User Clicks Job - User Will Find Job Description Page  
(**[**http://localhost:5173/details/3**](http://localhost:5173/details/3) **).**

**A screenshot of a computer

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Step-10 After Clicking “Apply Now” Button User Will Find place to upload resume  
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**Step-11 After Uploading Resume - User Need to enter additional details before submitting.**

**A screenshot of a computer

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Step-12 After Applying - User Can See Applied Jobs.**

**(** [**http://localhost:5173/appliedjobs**](http://localhost:5173/appliedjobs) **).  
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**Step 13: Click on review details to see submitted data for job applied job (** [**http://localhost:5173/review/3**](http://localhost:5173/review/3) **).**

**A screenshot of a computer

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**Step-14: User able to edit their personal details by click on edit in Review details.**

**(** [**http://localhost:5173/review/3**](http://localhost:5173/review/3) **).  
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**A screenshot of a computer

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Users can download the resume by clicking on resume what they applied while submitting.

**Step-15: User able see the FAQ’s Section in Navigation bar. (** [**http://localhost:5173/faq**](http://localhost:5173/faq) **).**

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**Step-16 User Can Find How Many Jobs their applied on weekly and monthly basis.  
(** [**http://localhost:5173/stat**](http://localhost:5173/stat) **).**

**A screenshot of a computer

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**Report Compilation Instructions:**

Follow the steps below to run our project in your environment.

1. Clone the React Project:

- If the project is hosted on a Git repository and you want to clone it, follow these steps:

- Open a terminal or command prompt.

- Navigate to the directory where you want to clone the project.

- Use the `git clone` command to clone the project repository. Replace `https://github.com/username/project.git` with the actual URL of the repository you want to clone:

```

https://github.com/KudidalaPavan/ALPHA.git

```

- If you already have the project files or if you're not using version control, you can skip this step and proceed to the next one.

2. Navigate to the Project Directory:

- Open a terminal or command prompt.

- Use the `cd` command to navigate to the directory where your project is located. For example:

```

cd ALPHA/Project Source Code/Phase 3/

```

3. Install Project Dependencies:

- Once you're in the project directory, run the following command to install the necessary dependencies specified in the `package.json` file:

```

npm install

```

- This command will download and install all the required packages for the project.

4. Start the React Development Server:

- After the dependencies are installed, you can start the React development server by running the following command:

```

npm run dev

```

Looks something like this  
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- This command will start the development server and open your default web browser to display the React application.

- You should see the React project running locally at `http://localhost:8000/` by default.

5. Set Up IDE (Optional):

- If you prefer to use an Integrated Development Environment (IDE), open your preferred IDE (e.g., Visual Studio Code, Atom, Sublime Text).

- Navigate to the directory where your project is located using the IDE's file explorer.

- Open the project folder in the IDE.

6. Backend Command To start the BE for job hunt:

A screen shot of a computer

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These steps should cover the process of cloning a React project from a Git repository, installing project dependencies, starting the development server, and setting up your IDE for development.

**Report Ending Feature Summary:**

In the course of developing the JobHub Connect platform, we have successfully implemented the following key features:

**Implemented Features:**

1. **User Authentication and Management:**

* Users can register for an account and log in securely.
* Robust authentication mechanisms ensure secure access to user-specific features.

2. **Job Listing Aggregation:**

* The platform aggregates job listings from various sources and displays them in a user-friendly manner.
* Job seekers can easily browse and navigate through the curated job listings.

3. **Basic Search Functionality:**

* Users can search for job listings based on keywords, location, category, and other basic filters.
* The search functionality is intuitive and responsive, providing relevant results to users.

4. **Apply for Jobs:**

* Registered users can apply for job listings directly through the platform.
* The application process is streamlined, providing a user-friendly interface for job application submissions.

5. **Upload Resume/CV:**

* Users can upload their resumes or CVs to their profiles, enhancing their visibility to employers and recruiters.
* The platform securely stores the uploaded documents and associates them with the user's account.

6. **Job Application Submission:**

* Users can submit job applications through the platform, with features to track the status of their applications.
* The application submission process is designed to be intuitive and efficient.

7. **Advanced Search Filters**:

* The job search functionality has been enhanced with additional filters, such as job type, salary range, and industry.
* Users can refine their search criteria to find more relevant job listings.

8. **Collect Additional Details:**

* During the job application process, users can provide additional details, such as work experience, education, skills, and other relevant information.
* This feature ensures that employers have access to comprehensive candidate profiles.

9. **Review Details Functionality:**

* Users can review and update their profile information before applying for jobs.
* The Review Details page presents pre-filled details, allowing users to make necessary changes or additions.

10. **Statistics Page:**

* The platform provides a Statistics page that displays users' job application activity, including monthly and weekly application counts.
* The statistics are presented through clear and visually appealing charts and graphs, empowering users to optimize their job search strategies.

11. **Frequently Asked Questions (FAQs):**

* The platform includes a comprehensive FAQ page, providing users with answers to common questions and concerns.
* The FAQs are organized into relevant categories, and users can search for specific topics.

**Limitations and Known Issues:**

1. **Community Engagement Features:**

* The implementation of community engagement features, such as discussion forums and user-generated content, had to be deprioritized due to resource and time constraints.
* This limitation may impact the platform's ability to foster a sense of community and collaboration among users.

2. **Reporting and Analytics:**

* The current Statistics page offers basic visualizations of job application activity, but more advanced reporting and analytics capabilities are not yet implemented.
* Enhancing the reporting features to provide deeper insights and customizable data analysis would be a valuable addition to the platform.

**Future Enhancements:**

If we get as chance to enhance our project, the team plans to focus on the following improvements and new features:

1. **Community Engagement Features:**

* Introduce discussion forums, user-generated content sections, and collaboration tools to enable job seekers to connect, share experiences, and support one another.
* Implement features like user profiles, commenting, and activity feeds to foster a sense of community and engagement.

2. **Personalized Job Recommendations:**

* Develop an intelligent job recommendation engine that analyzes user profiles, search history, and application data to provide personalized job suggestions.
* Leverage machine learning algorithms and data analytics to constantly refine the recommendation system and improve its accuracy.

3. **Employer Portal and Integrations:**

* Create an Employer Portal that allows companies to post job listings, manage their company profiles, and review applicant details.
* Explore integrations with popular job boards and applicant tracking systems to streamline the job posting and application process.

4. **Advanced Reporting and Analytics:**

* Enhance the reporting and analytics capabilities of the platform, providing in-depth insights into job market trends, user demographics, and application success rates.
* Introduce customizable dashboards and data visualization tools to enable stakeholders and administrators to make data-driven decisions.

By addressing these areas in the next phase, the team aims to further strengthen the JobHub Connect platform, providing a more comprehensive and user-centric solution for job seekers and employers alike.

**Report Reflection:**

The completion of Phase 3 marks a significant milestone in the development of the JobHub Connect platform. The enhancements introduced in this phase have significantly improved the user experience and provided valuable resources for job seekers. The key reflections on the Phase 3 development are as follows:

1. **Streamlined Prioritization:**

* The decision to focus on core functionalities like FAQs, Statistics, and Review Details was a strategic move that allowed us to deliver meaningful improvements within the given constraints.
* By carefully evaluating and temporarily postponing features like Community Engagement, we were able to maintain a laser-sharp focus on the most impactful enhancements.

2. **Improved User Engagement:**

* The implementation of the FAQs page has been instrumental in empowering users to find answers to their queries independently, reducing the burden on support channels.
* The Statistics page has provided users with valuable insights into their job search progress, enabling them to refine their strategies and optimize their application efforts.
* The enhanced Review Details functionality has streamlined the application process by allowing users to review and update their profiles before submitting job applications.

3. **Strengthened Backend Capabilities:**

* The backend enhancements, including improved user data storage, statistics data retrieval, and user data management, have laid a solid foundation for the new front-end features.
* By tightly integrating the backend and frontend, we have ensured seamless data flow and a cohesive user experience.

4. **Reliable Hosting:**

* The deployment of the application on a reliable hosting platform has significantly improved the availability and stability of the JobHub Connect platform.
* This enhancement has provided a stable and secure environment for users and stakeholders to access the platform during development and demonstrations.

5. **Lessons Learned:**

* The peer review feedback from Stake Holders highlighted the importance of maintaining a unified backend approach and fully leveraging the Firebase database for data management.
* Incorporating this feedback has helped us refine our implementation strategy and improve the overall maintainability and scalability of the project.

6. **Continuous Improvement:**

* The successful completion of Phase 3 has laid the groundwork for further enhancements and expansions in subsequent phases.
* The lessons learned and the foundation built during this phase will enable us to approach future developments with a more informed and strategic mindset.

Overall, the Phase 3 development has strengthened the JobHub Connect platform by addressing critical user needs, enhancing backend capabilities, and improving the overall reliability and maintainability of the application. These advancements have set the stage for even more impactful improvements in the coming phases of the project.

**Team Member Contribution:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Team member** | **Individual Contributions** | **Overall Contribution (%)** | **Note**  **(if applicable)** |
| Uday Kalyan Nuthalapati | Deployment | 12.5% |  |
| Pavan | Edit Functionality and PPT | 12.5% |  |
| Nithin | Creating Testcases | 12.5% |  |
| Abhishek | Creating functionalities document | 12.5% |  |
| Keerthi | Review Details | 12.5% |  |
| Shravani | Working on User Manual | 12.5% |  |
| Vishal | Worked on UML Diagrams | 12.5% |  |
| Sai Venkata | Database to store all details. | 12.5% |  |