**Project Progress Report**

**1. Introduction**

This report provides a detailed overview of the progress made on the job management website project. It outlines the tasks completed, current status, issues encountered, and future plans to ensure the successful completion of the project.

**2. Project Overview**

**Project Name**: Job Management Website

**Project Description**: The project aims to develop a comprehensive job management platform that facilitates job posting, assignment, and management. It allows job seekers to find available jobs and enables service providers to post and manage job listings securely and efficiently.

**Project Goals**:

* Provide a platform for job seekers to find jobs.
* Enable service providers to post and manage job listings.
* Implement secure user authentication and authorization.

**3. Tasks Completed**

**3.1. Initial Setup**

* **Task**: Set up the project structure and initialize the repository.
* **Status**: Completed
* **Details**: The project structure was created with separate directories for controllers, models, and public assets. The repository was initialized, and version control was established using Git.

**3.2. Authentication System**

* **Task**: Implement user authentication using JSON Web Tokens (JWT).
* **Status**: Completed
* **Details**: An authentication system was developed to allow users to log in using their credentials. JWT tokens are issued upon successful login to secure subsequent requests.

**3.3. Job Management**

* **Task**: Develop CRUD (Create, Read, Update, Delete) operations for job listings.
* **Status**: Completed
* **Details**: CRUD functionalities were implemented for managing job listings. Users can create, read, update, and delete job postings through the API.

**3.4. Worker Management**

* **Task**: Implement functionalities to view worker details.
* **Status**: Completed
* **Details**: Endpoints were created to fetch and display details of workers. This helps in associating jobs with specific workers.

**3.5. Controllers Implementation**

* **Task**: Refactor the codebase to use controllers for better organization.
* **Status**: Completed
* **Details**: The application logic was separated into controllers for jobs and workers. This refactoring improved the maintainability and scalability of the codebase.

**4. Current Status**

**4.1. Testing**

* **Status**: Ongoing
* **Details**: The implemented features are being tested using Postman to ensure they work as expected. This includes testing user authentication, job management, and worker management endpoints.

**4.2. Documentation**

* **Status**: Ongoing
* **Details**: Documentation is being prepared to provide detailed information on the API endpoints, including usage examples and expected responses. This documentation will help developers understand and use the API effectively.

**5. Issues Encountered**

**5.1. Module Not Found Error**

* **Issue**: Encountered a MODULE\_NOT\_FOUND error when refactoring the code to use controllers.
* **Resolution**: Verified the file paths and ensured all required modules were correctly imported. Added console logs to debug and resolve path issues.

**5.2. Token Expiry**

* **Issue**: Tokens issued upon login were expiring too quickly, causing frequent authentication failures.
* **Resolution**: Adjusted the token expiry time to provide a balance between security and usability.

**6. Future Plans**

**6.1. User Interface Development**

* **Task**: Develop the front-end interface for the website.
* **Details**: Plan to use React.js for the front-end development to create a responsive and user-friendly interface. This will enhance the user experience and make the platform more accessible.

**6.2. Advanced Features**

* **Task**: Implement advanced features such as job search, filters, and notifications.
* **Details**: These features will enhance the functionality of the platform, making it more useful for both job seekers and service providers.

**6.3. Deployment**

* **Task**: Deploy the application to a cloud platform.
* **Details**: Plan to deploy the application to a cloud platform like AWS or Heroku to ensure it is accessible to users worldwide. This will involve setting up the necessary infrastructure and configurations.

**7. Conclusion**

Significant progress has been made on the job management website project, with key functionalities implemented and tested. The project is on track, and the focus will now shift to developing the user interface and adding advanced features. Continuous testing and documentation will ensure the application is robust and user-friendly. The team is committed to delivering a high-quality platform that meets the needs of job seekers and service providers.