Job Nexus

Project Plan

Version 1.0

2/18/2025

Release Checklist

***[Review the document for each checklist item and mark it as YES or NO.]***

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| --- | --- |
| **Checklist Item** | **Control (Yes/No)** |
| The document has passed the quality assurance process. | YES / NO |
| The document is visually appealing and has a professional look and structure. | YES / NO |
| All placeholders such as text within <> are replaced with appropriate text. | YES / NO |
| The document is prepared in the “Justify Text” format. | YES / NO |
| The document does not include typos, different fonts, and misalignments. | YES / NO |
| In the revision history, the first version states “The first version”. Additional versions include an entry highlighting all the changes from the previous version. | YES / NO |
| The table of contents (TOC) is updated as necessary. | YES / NO |
| References list other project documents and additional standards or documents needed to understand the document. The references include the necessary document/artifact version number and publication date. | YES / NO |
| The language grammar is used appropriately. | YES / NO |
| Sentences are written as full sentences. | YES / NO |
| The wording in the document is formal. | YES / NO |
| The wording in the document is clear. | YES / NO |
| The wording in the document is professional. | YES / NO |
| All project-related definitions, acronyms, and abbreviations sections are included in the related tables. | YES / NO |
| The team member names are specifically spelled out in the document preparation and approvals sections. | YES / NO |
| The purpose and scope of the document are adequately described. | YES / NO |
| All sections include the necessary and adequate information. | YES / NO |
| The business goals are about how to secure the team/company's place in the market. The product goals are about all the goals of the product. The quality goals list all the product quality attributes for the product. | YES / NO |
| The deliverables list all the deliverables including all project artifacts (document, code, presentation, etc). | YES / NO |
| The project risks appropriately and in full sentences. | YES / NO |
| The work package table is completed with all necessary fields. | YES / NO |

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| **Final Control** | **Yes/No** |
| The document is checked based on the “Team Project Artifacts Common Errors” Guideline. The document is ready for release. | YES / NO |
| The document is not ready for release. | YES / NO |

Document Preparation

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Role** | **Approval (Signature)** | **Approval Date** |
| Bhavani Lakshmi Sathi | Product Manager | BLS | 02/20/2025 |
| Pranav Pratheek Malleboyina | Project Configuration Manager | PPM | 02/20/2025 |
| Alii Sheriff | Project Requirements Engineer | MAS | 02/20/2025 |

Document Approvals

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Role** | **Approval (Signature)** | **Approval Date** |
| Pranav Pratheek Malleboyina, Mohammed Ali Shreiff | Project Design Manager | A close-up of a handwritten note  AI-generated content may be incorrect.  A signature on a white surface  AI-generated content may be incorrect. | 02/20/2025 |
| Pranav Pratheek Malleboyina | Project Configuration Manager | A close-up of a handwritten note  AI-generated content may be incorrect. | 2/20/2025 |
| Sumana Sree Pasupuleti | Project Test Manager | A close up of a note  AI-generated content may be incorrect. | 2/20/2025 |
| Mohammed Ali Sheriff | Project Risk Manager | A signature on a white surface  AI-generated content may be incorrect. | 2/20/2025 |
| Bhavani Lakshmi Sathi | Project Technical Manager | A close-up of a blue text  AI-generated content may be incorrect. | 2/20/2025 |
| Ali Sheriff | Project Manager | A signature on a white surface  AI-generated content may be incorrect. | 2/20/2025 |
| Recruiters | TBD | TBD | 2/20/2025 |

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 02/20/2025 | 1.0 | Inittial Draft | Mohammed Ali Sheriff |
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Project Plan

# Introduction

This document contains the entire explanation of the project including the requirements, project flow and the list of all documents required for the project.

## Purpose of the Document

The purpose of this document is to collect, analyze, and define high-level needs and features of the Job Nexus Application. It focuses on the capabilities needed by the job recruiters and the target users(job seekers), and **why** these needs exist. The details of how the Job Nexus fulfills these needs are detailed in the use-case and supplementary specifications.

## Scope of the Document

This document includes the course team project goals, the project goals, the project team, the advised project development approach, the necessary software tools, the deliverables, the project assessment criteria, the related references, and the grading rubric.

## References

|  |  |  |
| --- | --- | --- |
| Reference Title/Name | Date | Version |
| Course Syllabus | NA | 1.0 |
| Team Project Proposal Template | NA | 1.0 |
| Team Project Evaluation Template | NA | 1.0 |
| Project Vision Document (PVD) Template | NA | 1.0 |
| Project Plan (PP) Template | NA | 1.0 |
| Software Requirements Specification (SRS) Template | NA | 1.0 |
| Software Design Description (SDD) Template | NA | 1.0 |
| Software Test Description (STD) Template | NA | 1.0 |

## Definitions, Acronyms, and Abbreviations

|  |  |  |
| --- | --- | --- |
| **Term** | **Abbreviation / Acronym** | **Definition** |
| Project Vision Document | PVD | PVD is the document that describes the vision for the project. The vision document also outlines the scope for the project. |
| Project Plan | PP | PP is the document that describes the plan for the successful completion of the project. |
| Software Requirements Specification | SRS | SRS is the document that describes the requirements for the project. |
| Software Design Description | SDD | SDD is the document that describes the design for the project. |

# Project Goals

## Business Goals

To **revolutionize the hiring process** by leveraging **AI-driven automation and analytics**, providing a seamless experience for both **recruiters and job seekers**. The platform will optimize recruitment by enabling **intelligent job matching, resume generation, candidate analysis, and real-time tracking**, ultimately improving **efficiency, accuracy,** and **decision-making** in the hiring process.

## Product Goals

For Job Seekers:

* AI-assisted Resume & CV Creation based on job descriptions.
* Smart Job Filtering by visa status, salary, location, and preferences.
* Application Tracking to monitor job statuses in real time.
* AI-driven Job Recommendations based on skills and experience.

For Recruiters:

* Candidate Filtering with custom criteria (skills, experience, location, etc.).
* AI-powered Resume Analysis to highlight key qualifications.
* Job Posting Assistance with AI-generated content summaries.

## Quality Goals

* **1. Performance & Reliability**
* Ensure fast response times for seamless user experience.
* Maintain 99.9% uptime to avoid service disruptions.
* **2. Usability & Accessibility**
* Design a simple, intuitive, and mobile-friendly interface.
* Ensure accessibility compliance for all users, including those with disabilities.
* **3. AI Accuracy & Efficiency**
* Deliver precise job recommendations and candidate filtering.
* Continuously improve AI models based on user feedback and performance metrics.
* **4. Data Security & Privacy**
* Implement encryption and strict access controls for user data.
* Comply with GDPR and other relevant data protection regulations.
* **5. Scalability & Future Readiness**
* Build infrastructure that can handle increasing users and job postings.
* Ensure flexibility for adding new features like AI-driven interviews.

# Project Stakeholders and Stakes

* **1. Job Seekers (Primary Users)**
* Need a seamless way to create resumes, CVs, and portfolios.
* Want accurate job recommendations and easy application tracking.
* **2. Recruiters (Primary Users)**
* Require efficient candidate filtering and AI-driven content analysis.
* Expect tools to streamline hiring and improve decision-making.
* **3. Employers/Companies**
* Seek a high-quality talent pool with relevant skills.
* Want a data-driven approach to evaluate job applicants.
* **4.Business Owners & Investors**
* Expect a sustainable and profitable business model.
* Focus on ROI, market expansion, and competitive differentiation.

## Summary of Key Stakeholder or User Needs

**For Job Recruiters:**

* **Efficient Recruitment Process**: Recruiters need tools to analyze and streamline their recruitment activities, allowing them to optimize their hiring strategies and make data-driven decisions.
* **Advanced Candidate Filtering**: They require a robust system to filter and sort job seekers based on specific qualifications, skills, experience, and other criteria to identify the most suitable candidates quickly.
* **AI-Generated Candidate Summaries**: AI-powered summaries can help recruiters efficiently evaluate a candidate’s profile by providing concise insights, reducing the time spent on reviewing resumes.
* **Customizable Filters**: Recruiters seek greater flexibility in their search process with custom filters, allowing them to tailor the selection criteria to better match the specific requirements of each job role.

**For Job Seekers:**

* **Tailored Resume and Portfolio Creation**: Job seekers need assistance in creating optimized resumes, CVs, and portfolios tailored to specific job descriptions. This feature would increase their chances of standing out and securing interviews.
* **Advanced Job Filtering**: They need a more refined search feature that allows them to filter job listings based on key factors such as salary, visa requirements, location, and other personal preferences, helping them focus on the most relevant opportunities.
* **Application Tracking and Insights**: Job seekers want a system to track the progress of their applications, receive feedback, and gain insights into how they can improve future applications.
* **AI-Driven Job Recommendations**: Job seekers would benefit from AI-driven job recommendations that suggest suitable positions based on their skills, past applications, and preferences, making the job search process more personalized and effective.

# Project Budget

Freemium Models for job seekers and Subscription based pricing for recruiters.

AI-powered premium features for resumes analytics and job tracking.

# Project Milestones and Schedule

Project Start Date: 02/06/2025

Project End Date: 05/08/2025

|  |  |  |
| --- | --- | --- |
| **Project Milestone** | **Date** | **Deliverable** |
| Problem Analysis, Vision Creation, Project Planning | 02/13/2025  02/20/2025 | Product Vision Document  Project Plan |
| Requirements Analysis | Pending | Software Requirements Specification (SRS) |
| Product Design | Pending | Software Design Document (SDD) |
| Product Implementation | Pending | Software Code |
| Product Test | Pending | Software Test Document (STD) |
| Final Product Deliverable | Pending | All Documentation and Code |
| Product Launch | Pending | Project Presentation |

# Project Communications

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Project Communication Type** | **Responsible Team Member** | **Receiving Stakeholder** | **Frequency** | **Medium** | **Scheduled Time** |
| Daily Project Communication | Any Team Member | Any Team Member | Every 2 days | Zoom//Face-to-Face | Anytime |
| Meetings | Project Manager | All Team Members | Thrice a week | Face-to-face / Zoom | Every Monday, Thursday and Friday |
| Project Progress Reports | Project Manager | All Team Members | Weekly | Zoom / Face-to-Face | Every Monday |
| Project Effort Reports | Project Manager | All Team Members | Weekly | Zoom/Face-to-Face | Every Monday |

# Project Members and Roles

|  |  |  |
| --- | --- | --- |
| **Project Role** | **Name** | **Responsibilities** |
| Project Manager | Mohammed Ali Sheriff Shaik | Leads the project initiatives and hold the team members accountable for deliverables |
| Project Technical Manager | Bhavani Lakshmi Sathi, Mohammed Ali Sheriff Shaik | Responsible for the technical stack for the project and ensures the working of the application |
| Project Design Manager | Bhavani Lakshmi Sathi | Responsible for the application design |
| Project Test Manager | Sumana Sree | Responsible for the testing framework and process |
| Project Engineer | Pranav Pratheek Malleboyina | Responsible for the technical working for the project, configuration and presentation |

# Project Work Breakdown Structure (WBS)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Work Package ID** | **Work Package Name** | **Responsible Team Member** | **Estimated Effort (Man\*Hour)** | **Definition** |
| WP-1 | Project Configuration and Backend development | Bhavani Lakshmi Sathi, Pranav Pratheek Malleboyina | 15 hours | Initial Setup and Project skeleton code open to integrate backend implementation |
| WP-2 | User Interface Design and Development | Bhavani Lakshmi Sathi | 22 hours | Frontend module with ReactJS, Wireframing and UI/UX implementation for interactive UI and efficient user-experience and gamification. |
| WP-3 | AI Model Integration and Testing | Mohammed Ali Sheriff Shaik. | 25 hours | Connecting AI models to the system (example ATS report and resume review), pretraining text datasets, fine-tuning LLMs for efficient Document Processing. |
| WP-4 | System Testing & Debugging | Sumana Sree and Mohammed Ali Sheriff Shaik | 25 hours | Ensuring Application Stability and Debugging run time and machine load errors. |
| WP-5 | Deployment and Maintenance | Pranav Pratheek Malleboyina, Sumana Sree | 15-20 hours | Releasing the application and ensuring continued support |

# Project Deliverables

|  |  |
| --- | --- |
| **Deliverable Number** | **Deliverable Name** |
| D-1 | Project Configuration Document |
| D-2 | Software Requirements Specification |
| D-3 | Software Design Description |
| D-4 | UML Diagram |
| D-5 | Fully developed Software Code |
| D-6 | Software Test Description |
| D-7 | Initial Prototype |
| D-8 | Final Project Description |
| D-9 | Deployment and Deployment Report |

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# Project Risks

|  |  |  |
| --- | --- | --- |
| **Risk Number** | **Risk** | **Risk Reduction Approach** |
| R-1 | If the AI model does not perform with high accuracy, then user satisfaction and trust in the platform will decrease. | Implement iterative model improvements, conduct extensive testing, and retrain with larger datasets. |
| R-2 | If the project timeline is delayed due to unforeseen technical issues, then the final product delivery may be impacted. | Set buffer time in milestones and conduct early-stage testing to prevent major setbacks. |
| R-3 | If there are security vulnerabilities in data handling, then user privacy could be compromised. | Apply encryption, implement security best practices, and conduct regular audits. |
| R-4 | If the system cannot handle large traffic loads, then the user experience will degrade. | Optimize system architecture and implement scalable cloud solutions. |