

System Requirement Specification (SRS)

Future Path Recommendation System

1. Introduction

1.1 Purpose

The purpose of this document is to outline the software requirements for the Future Path Recommendation System. This system is intended to help school leavers make informed decisions about their future career paths by providing personalized recommendations based on their skills and abilities.

1.2 Scope

The Future Path Recommendation System is a web application designed to guide school leavers in selecting a suitable career path, enhancing their skills, and finding employment opportunities. The system uses machine learning techniques, particularly Natural Language Processing (NLP), to analyze user data and recommend career paths.

2. Overall Description

2.1 Product Perspective

The system will be developed as a web application using ReactJS for the front end, Node.js for the back end, and MongoDB as the database. It will integrate a Python-based NLP module to analyze user data.

2.2 Product Functions

- User registration and login
- Profile creation with resume upload
- Skill and experience input
- Career path recommendations
- Resource suggestions for further studies
- Job and gig search functionalities
- Messaging system for client-service provider communication

2.3 User Classes and Characteristics

- School Leavers(Sellers): Users who have completed or discontinued their education and need guidance on career paths.
- Clients: Employers or individuals looking for services offered by school leavers.

2.4 User Interfaces

- Login Screen: Users can enter their credentials to access their account.
- Signup Screen: New users can create an account.
- Profile Page: Users can view and edit their profile information.
- Resume Upload: Users can upload their resumes for analysis.
- Career Path Recommendation: Display recommended career paths based on user data.
- Resource Suggestion: Show resources for further studies.
- Job Search: Interface for searching and applying for jobs and gigs.
- Messaging: Interface for communicating with potential clients.

System Link: <https://www.codingacademya1.ceyonix.com>

