SOFTWARE PROJECT MANAGEMENT

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Submitted by:

Raveeha Mohsin	2022-CS-149
Tayyaba Afzal	2022-CS-134
Noor Asghar	2022-CS-140
Ghania Khan Niazi	2022-CS-156
Umaima Noor	2022-CS-147

Supervised by:

Prof. Khaldoon Syed Khurshid

Department of Computer Science

University of Engineering and Technology

Lahore , Pakistan

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MVP Assignment - Career Path Navigator

1   Project Vision

The **AI Career Path Navigator** is a web-based application designed to assist students in making informed career decisions using **Artificial Intelligence (AI)**. The platform provides **personalized career recommendations, job market insights, learning resources, and resume enhancement tools** based on students' academic backgrounds, skills, and interests.

This project aims to **bridge the gap** between students and industry demands by offering **data-driven career guidance**. It streamlines the interaction between **students, career counselors, and administrators**, ensuring a **structured career progression path**.

1.1   Key Objectives:

- **Personalized Career Guidance**: AI-driven recommendations tailored to students' interests and market trends.
- **Skill Development**: Learning resources, certifications, and resume-building tools to improve employability.
- **Job and Internship Matching**: Connect students with suitable job opportunities and internships.
- **Counselor Assistance**: One-on-one career counseling sessions for personalized guidance.
- **Admin Oversight**: Efficient management of students and counselors through an intuitive dashboard.

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2   Project Scope

The project will deliver a **functional MVP** that includes **core features** essential for career guidance. Additional enhancements will be developed based on user feedback.

2.1   Key Deliverables:

1. **Student Dashboard**

   - **Profile Setup**: Personal and academic details, career goals, and interests.
   - **AI-Powered Career Recommendations**: Personalized job and career suggestions.
   - **Job & Internship Listings**: Career opportunities tailored to student aspirations.
   - **Career Path Visualization**: Graph-based view of career progression.

- **Learning Resources**: Courses and certifications to enhance skills.
- **Resume Builder**: AI-assisted resume optimization.
- **Progress Tracker**: Monitor acquired skills and completed courses.
- **Counselor Feedback & Meetings**: Students can schedule and review counseling sessions.
- **Chatbot**: AI-powered career guidance.
- **Notifications**: Real-time alerts on meetings, deadlines, and career resources.
- **ATS Score Calculation**: AI-based resume compatibility with job applications.
- **Transportation Assistance**: GPS-based nearest location suggestions.
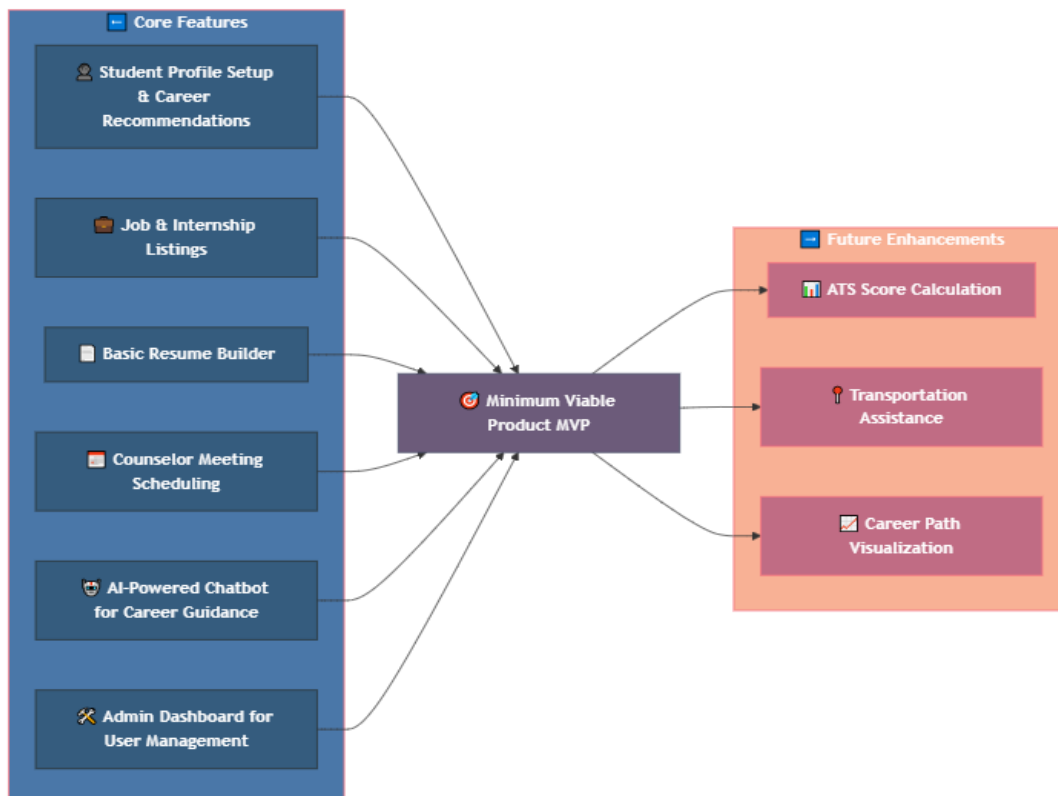
2. **Counselor Dashboard**

- **Graphical View**: Student progress reports.
- **Meeting Management**: Schedule and manage student meetings.
- **Student List & Reviews**: Track student progress and provide feedback.

3. **Admin Dashboard**

- **Manage Counselors**: Approve/reject counselor applications.
- **Graphical Analytics**: View student and counselor activity data.
- **User Management**: Oversee student and counselor interactions.

2.2   MVP

The **Minimum Viable Product (MVP)** includes core features like **student profile setup, job listings, resume builder, counselor scheduling, AI career chatbot, and an admin dashboard** to support career development. Future enhancements include **ATS score calculation, transportation assistance, and career path visualization** for an improved user experience.

2.3   Major Milestones & Success Criteria

- **Milestone 1:** Develop and deploy a working MVP with core features.
- **Milestone 2:** Conduct **beta testing** with real users (students & counselors).
- **Milestone 3:** Gather feedback and implement improvements based on user needs.
- **Success Criteria:** Positive feedback from students and counselors, smooth system functionality, and successful career recommendations.

3   Alignment with Business Needs

3.1   How This Project Addresses Market Needs

The **AI Career Path Navigator** solves a major problem: **students struggle to find clear career guidance and relevant opportunities.** Many students lack access to proper career counseling, leading to poor job choices and skill mismatches.

3.2   Evidence of Demand & Market Potential

📊 **A study by LinkedIn (2023)** found that **over 60% of students feel uncertain about their career path.**
💡 Many universities **lack AI-driven platforms** to provide personalized career guidance.
🔍 **Online job portals (LinkedIn, Indeed)** focus on job listings, not personalized career recommendations.

3.3   How Our Startup Stands Out

- **AI-Powered Career Matching**: Unlike generic job boards, our system **analyzes** student profiles and **suggests career paths** based on AI insights.
- **Integrated Learning Resources**: Provides sources for **certifications and courses** aligned with market trends.
- **One-on-One Counseling**: Unlike standard career tests, our platform includes **human guidance** from professional counselors.
- **Resume & ATS Score Optimization**: Helps students create **job-ready resumes** that pass ATS filters.
- **Location-Based Assistance**: Helps students find **nearby career resources, events, and job fairs** using GPS.

This project aligns with the current **job market needs** by offering a **smart, interactive, and AI-driven career guidance solution.**