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# AI Resume Builder & Rating System

*Project Proposal – Junior Design Course*

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## Resumate

**Project Title:** AI Resume Builder & Rating System

**Course:** CSE299

**Student Name:**

**Instructor:** MSRB

**University:** North South University

**Date:** 13/10/25

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## Abstract

The AI Resume Builder and Rating System is designed to assist users in creating professional resumes efficiently.

The system integrates **artificial intelligence (AI)** for content generation and evaluating resumes. It allows automatic scoring, feedback, and PDF exports while providing an installable interface via **PWA** or **APK**.

This project demonstrates the intersection of web development, AI, and practical software deployment in a junior-level academic setting.

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## 1. Introduction

Creating professional resumes can be challenging for students and job seekers.

Traditional resume builders focus on formatting but lack **intelligent content assessment**.

The proposed system leverages AI for automated **content generation, scoring, and suggestion of improvements**, providing a user-friendly interface to create, evaluate, and export resumes.

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## 2. Problem Statement

- Traditional resume builders lack AI-based evaluation.
- Users often struggle to match resumes to job descriptions.
- Manual resume review is time-consuming and subjective.

**Solution:** Develop a web application that uses AI to **generate content, score resumes**, and **provide suggestions** while remaining **installable and accessible offline**.

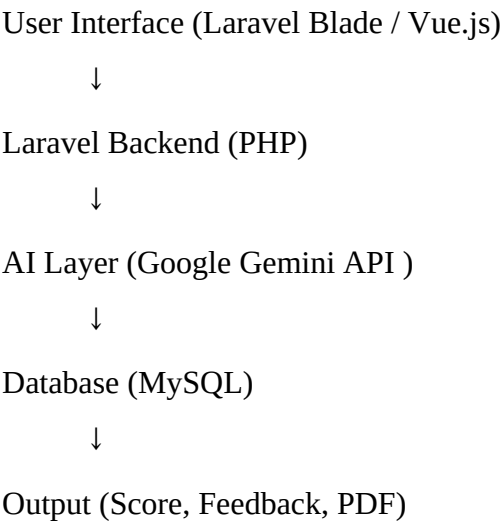
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## 3. Project Objectives

1. **Resume Creation:** Interactive web interface using Laravel Blade and Tailwinds.
  2. **Resume Rating:** AI scoring system using Google Gemini API .
  3. **PDF Export:** Generate downloadable resumes.
  4. **Deployment:** Make the app installable via PWA or APK.
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## 4. Methodology

### 4.1 System Architecture



## 5. Developer Stack

Layer	Tool / Technology	Purpose	Reference
Frontend	Laravel Blade / Vue.js / Bootstrap	Forms, interface, responsive design	(Laravel Docs, 2024)
Backend	Laravel PHP	Main application logic	(Otwell, 2023)
Database	MySQL	Store resumes & ratings	(MySQL Dev Team, 2024)
AI Generation	Google Gemini API	Resume content creation	(Google AI Studio, 2025)
AI Rating	Gemini flash 2.5	Scoring and feedback	

PDF Export	Laravel DOMPDF	Resume download	(barryvdh, 2024)
Installable App	PWA / Mobile App	Desktop-like experience	
Version Control	Git / GitHub	Collaboration & versioning	(Git SCM, 2024)

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## 6. Expected Outcomes

- Fully functional AI-assisted resume builder
- Automatic resume scoring & feedback
- PDF export capability
- Web app and installable desktop experience
- Demonstration of **AI integration in web development**

## 7. Conclusion

The project demonstrates the integration of **web frameworks and AI** to provide intelligent resume assistance.

It combines **practical usability, academic rigor, and modern software development practices**, making it suitable for a **junior-level course submission**.

The final product will be both **web-based** and native **android app**, allowing for real-world demonstration of AI-enhanced productivity tools.

