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## Sarvajanik College of Engineering and Technology Information Technology

Subject: Project-I

Code: BTIT16701 / BTAI16701

# CareerPrep

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# Introduction

- Effective career preparation requires proficiency in aptitude, coding, and HR skills. This project will deliver a comprehensive tool where students practice aptitude MCQs, check code accuracy, and rehearse HR questions, all in one place.



# Problem Definition

- This project aims to create a platform with three integrated modules—Aptitude Test, Code Checker, and HR Practice—to enhance students' skills in aptitude, programming, and HR interview preparation. The solution supports self-paced learning and objective evaluation.





# Motivation

Students often lack structured guidance for **aptitude, coding, and HR preparation.**

Existing platforms provide questions and coding exercises but **do not provide AI-based evaluation or level-based gamified learning.**

## Our Motivation:

- Introduce **gamification for aptitude**
- Provide **AI-powered feedback on programming.**
- Offer **structured HR interview practice.**

# Methodology

- **Module 1: Aptitude :** Multiple-choice questions ,Level-wise unlock,After submission: analysis of score, wrong questions → retry later.
- **Module 2: Programming Round:** Users solve coding problems and submit.Backend uses AI or trusted code-checking API for:Correctness,Code quality,Hints and suggestions
- **Module 3: HR / Soft Skills Round:** Users practice common HR questions (Tell me about yourself, Strength/Weakness, Why this company?).





# Timeline Chart for Project Work

## Phase 1: Planning & UI Design

- Finalized project idea
- Designed **Home, Signup/Login, Module UI**

## Phase 2: Module Implementation (In Progress)

- **Aptitude Module:** Partial implementation with level-based questions
- UI navigation improvements

## Phase 3: Next Steps

- Complete **Aptitude Module** gamification
- Integrate **AI code review** for Programming Module
- Implement HR Module

## Phase 4: Testing & Deployment

- Module testing & bug fixes
- Final demo preparation



# Expected Outcome

Students get a **structured, interactive platform** to practice aptitude, coding, and HR skills.

**Gamified levels in aptitude** motivate users to progress and improve.

**AI-assisted code review** provides instant feedback on code quality and logic.

**HR module** helps students gain confidence for real interviews.

**Overall Impact:** Prepares students holistically for campus placements and tech interviews.