



BANNARI AMMAN INSTITUTE OF TECHNOLOGY

An Autonomous Institution Affiliated to Anna University Chennai - Approved by AICTE - Accredited by NAAC with "A+" Grade

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STUDENT NAME: HARINI SHRI R

SEAT N0: 338

PROJECT ID: 1

PROJECT TITLE: ASSESMENT PORTAL

Technical Components:

Components	Tech stack
Front end	React js
Back end	Node.js with express.js
Database	MongoDB
API	OpenAPI

1. INTRODUCTION

1.1.Purpose

The purpose of this document is to present a detailed description of the assessment portal. It will explain the purpose, features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and know the system will react to external stimuli.

1.2. Scope of the project

- This software system will serve as a portal for the personalized skill committee (PS), enabling students to book a slot, attend assessments and coding questions. From administrative side his software helps to track students level completion and eligibility for certain activities.

- Students have the access to attend the assessment once the slot is booked.
For short answers it can be corrected manually by staff who have access to the particular assessment module. Other than short answers all other questions are corrected automatically and graded to student's dashboard.

2. SYSTEM OVERVIEW

2.1. User Management

- **User Registration and Login:** Implement secure user authentication and registration processes.
- **Roles and Permissions:** Define roles (e.g., student, teacher, admin) and set permissions for each role.
- **Profile Management:** Allow users to manage their profiles, including updating personal information and changing passwords.

2.2. Assessment Creation and Management

- **Question Bank:** Create a repository for different types of questions (MCQs, match the following, short answers, programming tasks).
- **Assessment Builder:** Enable teachers to create assessments by selecting questions from the question bank.
- **Randomization:** Implement randomization of questions and options to minimize cheating

2.3. Question Types and Their Specific Features

- **Multiple Choice Questions (MCQs)**
 1. Support for single and multiple correct answers.
 2. Automatic grading based on predefined correct answers.
- **Match the Following**
 1. Interface for matching pairs.
 2. Automatic grading based on predefined correct pairs.
- **Short Answer Questions**
 1. Text input field for responses.
 2. Manual grading by staff, with a system for entering and managing grades.

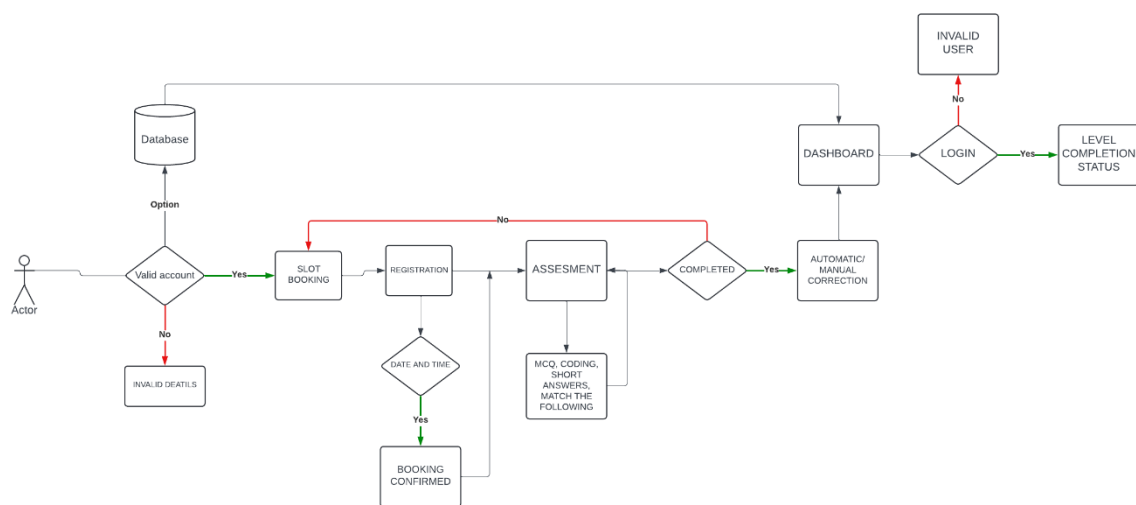
2.4. Programming Tasks

1. Integrated code editor supporting multiple programming languages.
2. Compiler to run and test the code against predefined test cases.
3. Automatic grading based on test case results.

DASHBOARD UPDATION:

- LEVEL COMPLETION STATUS AND REWARDS POINTS.

USER INTERFACE



ADMIN INTERFACE

