

BANNARI AMMAN INSTITUTE OF TECHNOLOGY

An Autonomous Institution Affiliated to Anna University - Chennai, Accredited by NAAC with A+ Grade
Sathyamangalam - 638401 Erode District, Tamil Nadu, India



NAME : PURVAJA S
ROLL NUMBER : 7376221EC269
SEAT NO : 363
PROJECT ID : 3
MODULE NAME : Placement Record

MODULE NAME: Placement Record

MODULE DESCRIPTION: Students need to upload their internship offer letter and Job offer letter in a centralized forum.

STACK: MERN Stack

TECHNICAL COMPONENTS:

COMPONENTS	TECH STACK
Front End	React (JS Library for building user interfaces)
Back End	Node.js with Express.js
Database	MongoDB (NOSQL Database)
API	Open API

PROBLEM STATEMENT:

The manual approach to managing placement records within our college presents several challenges, including:

- ❖ Inefficient document management: Current methods rely on manual submission and storage of internship and job offer letters, leading to disorganization and difficulty in tracking documents.
- ❖ Lack of transparency: Students face uncertainty regarding the status of their submitted documents, resulting in delays and miscommunication.
- ❖ Time-consuming approval process: Administrators are burdened with manually reviewing and approving each document, leading to delays in processing and potential errors.
- ❖ Limited reporting capabilities: The absence of a centralized system makes it challenging to generate comprehensive reports on student placements, hindering strategic decision-making.

These challenges highlight the need for a centralized and automated Placement Record Management System to streamline document submission, approval workflows, and reporting, ultimately enhancing efficiency and transparency in the placement process.

PURPOSE:

To create a customized Full Stack solution using the MERN (MongoDB, Express.js, React.js, Node.js) stack, with the primary objective of developing a centralized platform for effectively managing internship and job offer letters for students.

SCOPE:

This project encompasses the development of essential features such as user authentication, document upload functionality, admin approval workflows, opportunity listings, and reporting capabilities. It aims to seamlessly integrate with existing college systems while providing a user-friendly experience for both students and administrators.

BUSINESS CONTEXT:

The Full Stack project serves to streamline the placement process by enhancing efficiency and transparency in managing internship and job offer letters. Key stakeholders, including students, faculty, administrators, and recruiters, stand to benefit from improved access to placement-related information and optimized communication channels.

CONSIDERATIONS:

- All users are expected to have active Google accounts for streamlined authentication and access.
- Seamless internet connectivity on user devices is essential for smooth system interaction and document submission.

DEPENDENCIES:

- Integration with Google's authentication mechanism for secure user authentication and authorization.
- Reliable performance and availability of existing email servers for efficient communication and notification delivery.

USER PERSONAS:

- ✓ Student: Individuals seeking a user-friendly platform to effortlessly submit and monitor internship and job offer letters.
- ✓ Admin: Educators requiring access to student placement records for guidance and support.
- ✓ Super Admin: Personnel responsible for overseeing document approval workflows and managing the placement process.

USER STORIES:

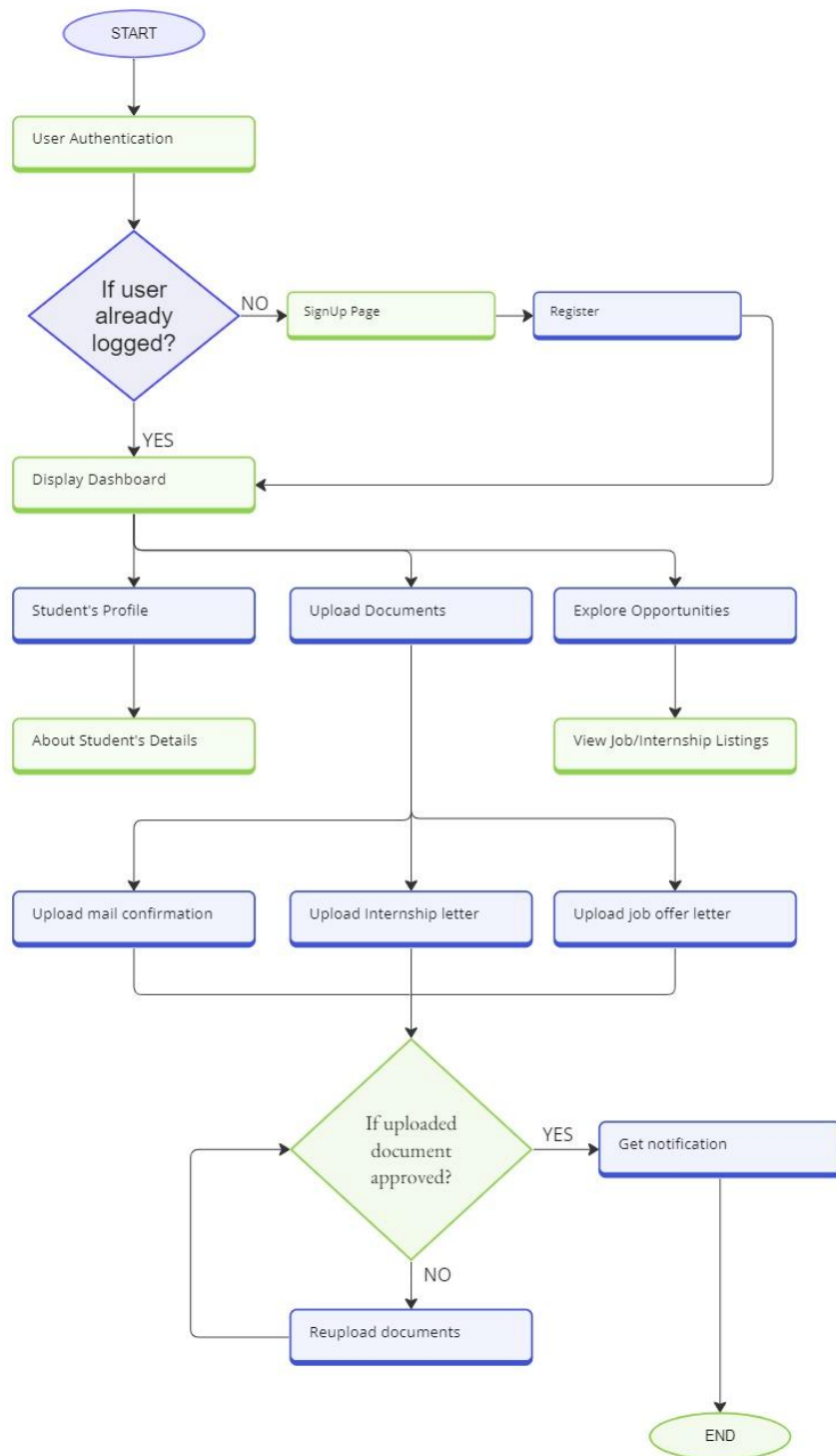
- ✓ As a student, I aim to upload internship and job offer letters seamlessly and track their status effortlessly.
- ✓ As an admin, I need access to student placement records to provide necessary guidance and support.
- ✓ As a super admin, I strive to efficiently manage document approval workflows and oversee the placement process effectively.

FUNCTIONAL REQUIREMENTS:

- ❖ User Authentication: Implement a secure login mechanism using Google's authentication system to ensure user identities are verified and data privacy is maintained.
- ❖ Document Upload: Develop a user-friendly interface allowing students to upload internship and job offer letters in PDF format, with validation to ensure file integrity.
- ❖ Admin Approval Workflow: Design an automated process for administrators to review and approve submitted documents, with notifications sent to students regarding the status of their submissions.
- ❖ Opportunity Listings: Create a platform for administrators to post job and internship opportunities, including relevant details such as company name, role, location, and application deadline.
- ❖ Reporting and Analytics: Develop functionality to generate comprehensive reports on student placements, recruiter engagement, and placement trends for informed decision-making and strategic planning.

FLOW CHART:

USER INTERFACE:



ADMIN INTERFACE:

