



## **BANNARI AMMAN INSTITUTE OF TECHNOLOGY**

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**Sathyamangalam - 638401 Erode District, Tamil Nadu, India**

### **Internship and Job Offer Management System**

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<b>Project Id</b>	03
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<b>Project Title</b>	Internship and Job Offer Management System (Bit Career Connect)

#### **Technical Components :**

<b>Components</b>	<b>Tech Stack</b>
Front end	Vue js
Backend	Express js
Database	MongoDB
API	Restful API services

## Implementation Timeline :

Phase	Deadline	Status	Note
Stage 1	04.05.2024	In progress	Planning and Requirement Gathering
Stage 2		In Progress	Design and Prototyping
Stage 3		Not Started	DB Design and Implementation
Stage 4		Not Started	Backend Implementation
Stage 5		Not Started	Testing & Implementation

## Table of Contents

- Introduction
- System Overview
- User Roles
  - Admin
  - Students
  - Organizers
- Functionalities
  - Admin Dashboard
  - Student Dashboard
  - Organizer Dashboard
- Functional Requirements
- Technical Specifications
- Implementation Details
- Future Enhancements
- Conclusion

**Problem Statement :**

Students need to upload their internship offer letter and Job offer letter in a centralized forum

**Proposed Solution :****1. Introduction**

The Internship and Job Offer Management System is a comprehensive platform designed to facilitate the seamless handling of internship and job offer-related activities for students, administrators, and organizers. By centralizing processes and providing real-time updates, the system aims to enhance transparency, efficiency, and user experience throughout the offer management lifecycle.

**2. System Overview**

The system leverages modern technologies and frameworks, including the MEVN stack (MongoDB, Express.js, Vue.js, Node.js), to ensure scalability, security, and performance. User authentication is implemented using JWT (JSON Web Tokens), providing a secure and reliable authentication mechanism. Key features include offer submission, approval workflows, analytics dashboards, and comprehensive user management functionalities.

**3. User Roles****1.Admin :**

The administrator plays a pivotal role in overseeing the entire system. They have the authority to manage user accounts, review and approve offer requests, and access system analytics. Administrators ensure the smooth operation of the system and facilitate communication between students, organizers, and other stakeholders. Additionally, administrators can add batch details, which are utilized in analytics and can be filtered and customized for display in Excel reports.

**2.Students :**

Students utilize the system to submit their internship and job offer details. They can track the status of their submissions and receive notifications upon approval or rejection. By providing students with a user-friendly interface, the system empowers them to manage their offer-related documents efficiently and stay informed throughout the process.

### **3.Organizers :**

Organizers focus on monitoring placement statistics and student demographics. They can access aggregated data on placements, interested students, and other relevant metrics. By leveraging these insights, organizers can tailor their efforts to better support students and enhance overall placement outcomes.

## **4. Functionalities**

### **1.Admin Dashboard :**

1. **Analytics Overview:** Provides a snapshot of key system metrics, such as total students, placements, interested students, etc. Graphical representations facilitate quick analysis.
2. **Batch-wise Analytics:** Allows administrators to delve deeper into analytics on a batch-by-batch basis, enabling targeted interventions and support.
3. **Customizable Excel Reports:** Enables administrators to customize Excel reports by selecting desired data columns and applying date filters to download students Details.
4. **User Management:** Enables administrators to add, edit and delete user accounts.
5. **Offer Approval Workflow:** Facilitates the review and approval/rejection of offer requests submitted by students.
6. **Student Details Management:** Allows administrators to view and download comprehensive student details, including offer-related documents by selecting desired data columns and applying date filters.

### **2.Student Dashboard :**

1. **Offer Submission:** Enables students to submit their internship and job offer details, including company information, package details, and uploaded documents.
2. **Offer Status Tracking:** Provides students with real-time updates on the status of their offer submissions, ensuring transparency and accountability.
3. **Notification System:** Sends notifications to students upon offer approval or rejection, keeping them informed throughout the process.

### **3.Organizer Dashboard :**

1. **Analytics Overview:** Offers organizers insights into placement statistics and student demographics, empowering them to make data-driven decisions.
2. **Student Details Access:** Allows organizers to view approved offer details for students, facilitating targeted support and assistance.
3. **Customizable Excel Reports:** Enables administrators to customize Excel reports by selecting desired data columns and applying date filters.

### **5.Functional Requirements:**

#### **User Authentication:**

- The system shall authenticate users based on their username and password.
- The system shall allow users to reset their password if forgotten, using a secure verification process.
- Administrators shall have the ability to manage user accounts, including creating, editing, and deleting accounts.

#### **Offer Submission:**

- Students shall be able to submit their internship and job offer details, including company information, package details, and uploaded documents.
- The system shall validate the completeness and correctness of offer submissions before acceptance.

#### **Offer Approval Workflow:**

- Administrators shall review offer submissions from students and either approve or reject them.
- Upon approval or rejection, students shall receive notifications informing them of the decision.

#### **Analytics Dashboard:**

- The system shall provide administrators and organizers with graphical representations of key metrics, such as total students, placements, interested students, etc.
- Administrators shall be able to filter analytics data by batch and generate customizable Excel reports.

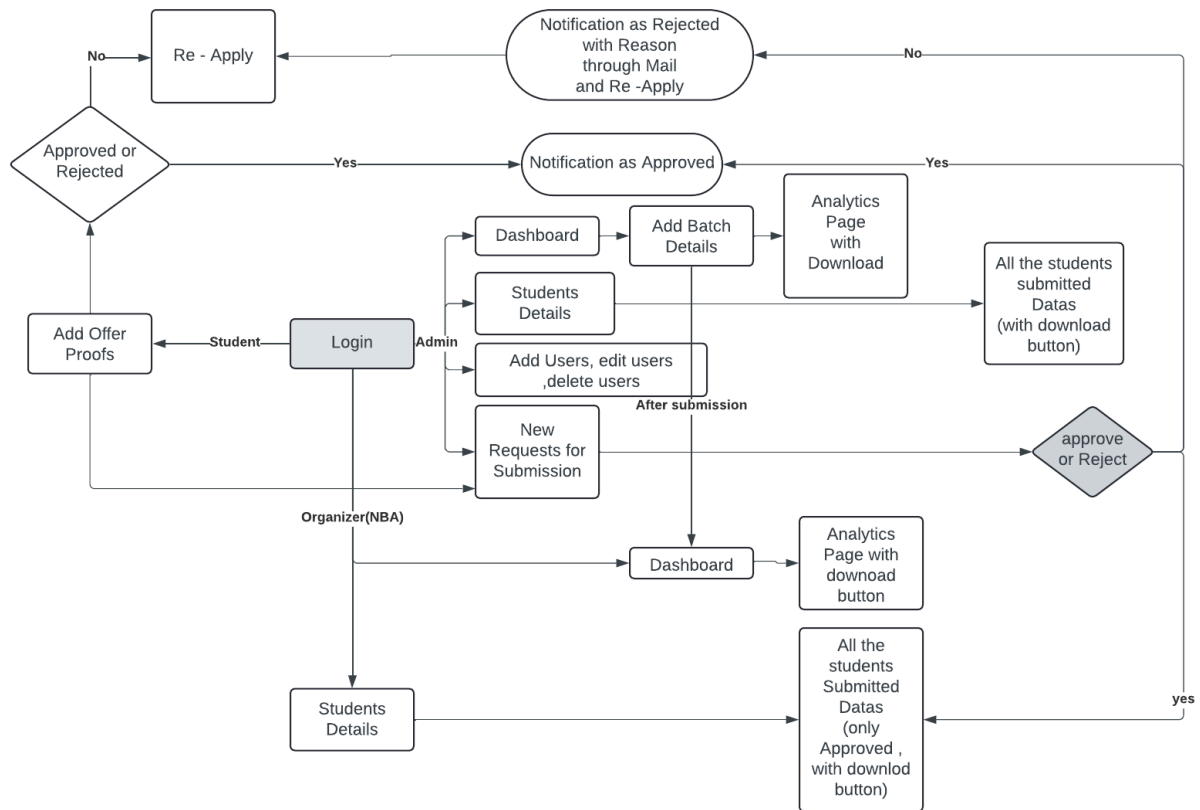
#### **Notification System:**

- The system shall send real-time notifications to students upon offer approval or rejection.
- Organizers shall receive notifications of new offer submissions for review.

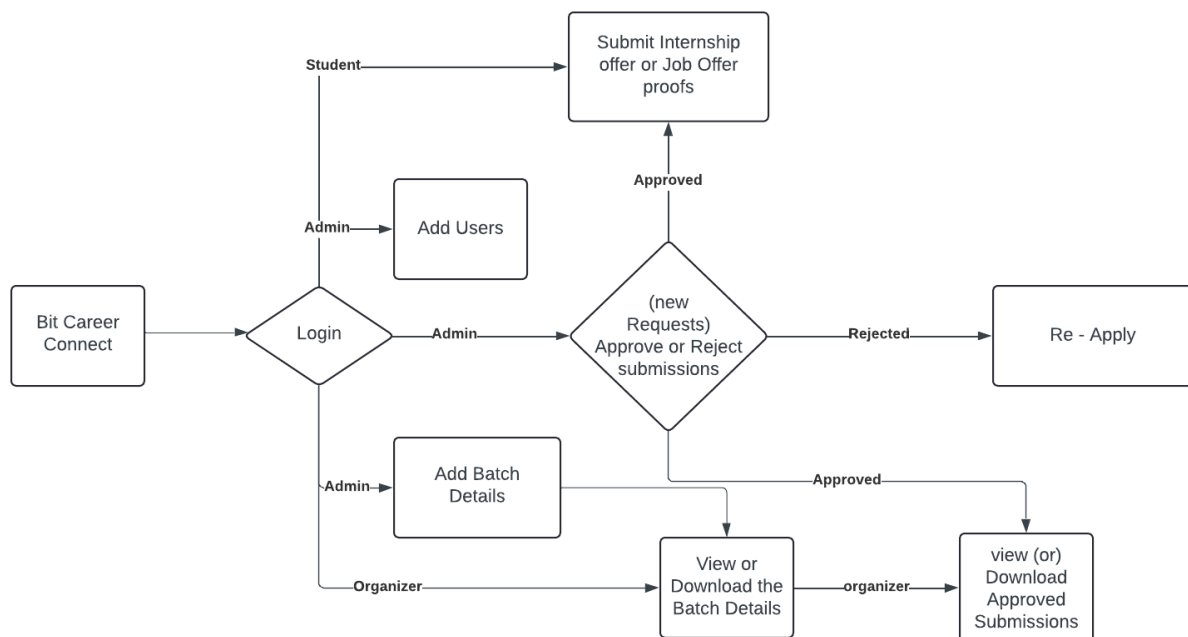
### **6. Technical Specifications :**

The system is built using the MEVN stack (MongoDB, Express.js, Vue.js, Node.js), ensuring robustness and flexibility. User authentication is implemented using JWT (JSON Web Tokens), providing secure access to the system. Data storage and retrieval are managed through MongoDB, while Express.js and Node.js handle server-side logic and API development. Vue.js is used for client-side rendering, providing a responsive and intuitive user interface.

## 7.Process flow :



## 8. Workflow :



## **9. Future Enhancements :**

1. **Enhanced Analytics Features:** Expand analytics capabilities to provide more granular insights into placement trends and student performance.
2. **Mobile Application Development:** Develop a mobile application to enhance accessibility and usability, allowing users to access the system on the go.

## **10. Conclusion :**

The Internship and Job Offer Management System offers a comprehensive solution for streamlining offer-related activities for students, administrators, and organizers. By centralizing processes, providing real-time updates, and leveraging data-driven insights, the system enhances transparency, efficiency, and user experience across the board.