BANNARI AMMAN INSTITUTE OF TECHNOLOGY
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Stay Ahead

TECHNICAL APPROVAL COMMITTEE

GUIDE APPROVAL FORM

Date: 30 / 04 / 2024

Starting Date of Work				
Sl. No.	**Student Name**	**Reg. No.**	**Role**	**Signature**
1	SHARMILAA G C	7376212AD193	Team Leader	
Applying for the work:		Project		
Title of Work		Course Exemption Portal		

(To be Filled by Faculty In charge)

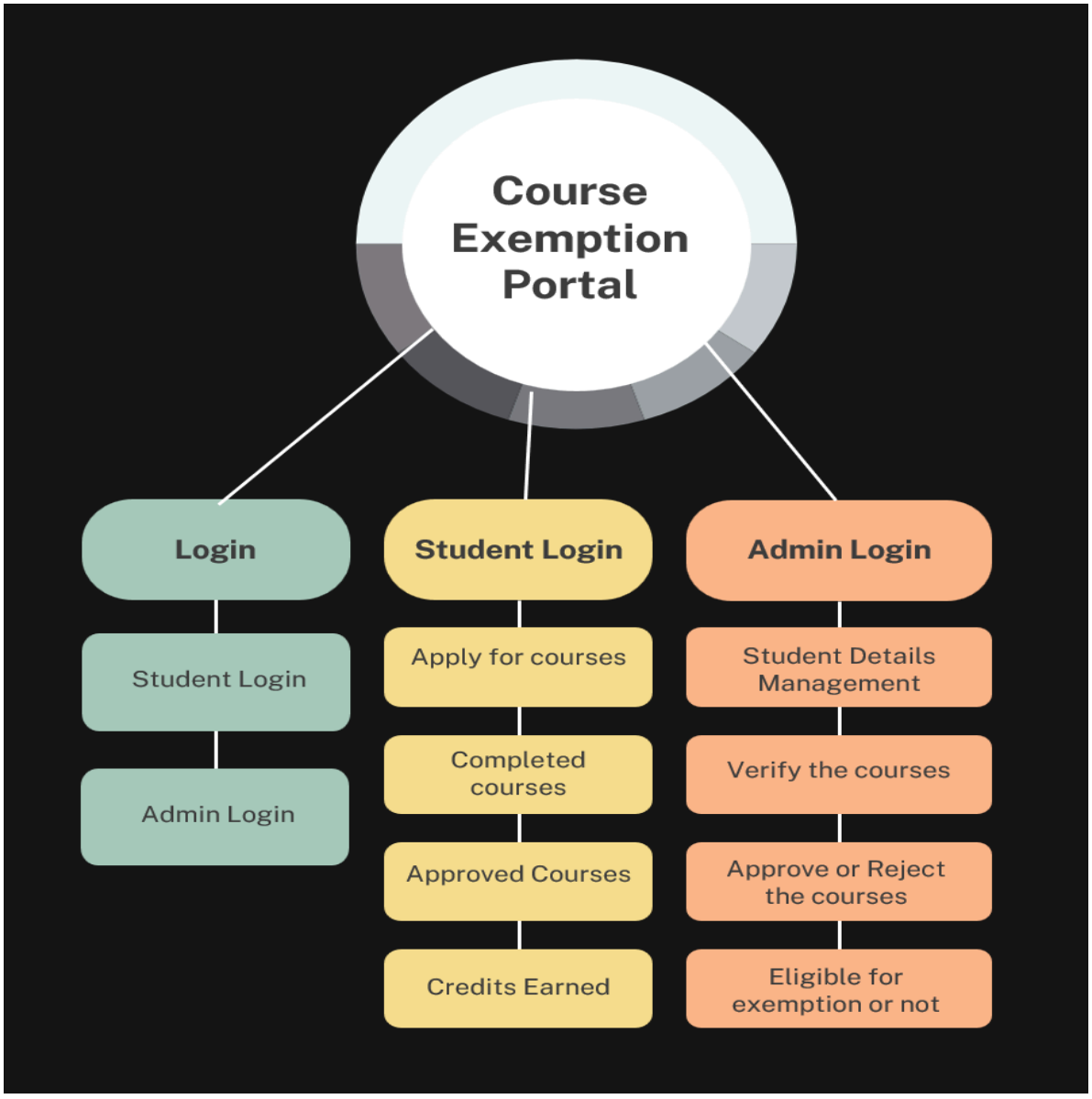
No. of students:

I acknowledge that I will act as a faculty in charge for the aforementioned students and guide them to complete the work by adopting the guidelines provided.

Lab Name:
Mobile and Web App for software applications

Name & Signature of the Faculty In charge with the date

Flow chart


Course Exemption Portal
Login
Student Login
Admin Login
Student Login
Apply for courses
Completed courses
Approved Courses
Credits Earned
Admin Login
Student Details Management
Verify the courses
Approve or Reject the courses
Eligible for exemption or not

Idea/Approach Details

Abstract:

The One-Credit Course Exemption Portal is a comprehensive platform designed to simplify and enhance the course exemption process for both students and administrators within educational institutions. Students benefit from features such as submitting exemption applications, uploading necessary documents, tracking application status, and receiving automated notifications about their exemption requests. On the other hand, administrators can efficiently review and process exemption applications, make exemption decisions based on established criteria, and notify applicants of the outcomes. This portal's intuitive interface, coupled with its automated workflows, significantly improves efficiency, transparency, and accountability in managing course exemptions based on earned credits, ultimately fostering a seamless and productive academic experience for all stakeholders involved.

Methodology:

The methodology for developing the One-Credit Course Exemption Portal involves an iterative and collaborative approach using agile methodologies. This includes gathering and analyzing requirements from stakeholders, designing user interfaces and workflows, implementing features incrementally using technologies like React.js for frontend, Node.js with Express.js for backend, MongoDB for database management, and JWT for authentication, conducting regular testing and feedback sessions, and deploying the portal on cloud platforms like AWS or Azure for scalability and accessibility. This iterative process allows for continuous improvement, adaptation to changing needs, and delivering a high-quality, user-centric portal.

Requirements:

The requirements for the One-Credit Course Exemption Portal encompass a range of functionalities. These include a robust user authentication system that distinguishes between students and administrators, with role-based access controls ensuring appropriate permissions. The portal must incorporate a comprehensive credit conversion mechanism, outlining how credits earned in semesters 4, 5, and 6 correspond to course exemptions, possibly with configurable rules for specific programs or departments. Additionally, there should be a user-friendly interface for students to submit exemption applications seamlessly, including features for uploading supporting documents and tracking application progress. On the administrative side, the portal should provide administrators with a dedicated dashboard for efficiently reviewing, processing, and managing exemption applications, complete with notification capabilities to keep applicants informed of their application status in real-time. A dynamic dashboard displaying earned credits, calculated exemptions, and application statuses would further enhance transparency and usability for all users involved in the exemption process.

Key features :

- *Secure user authentication and role-based access control.*
- *Define credit-to-exemption conversion rules for semesters.*
- *User-friendly interface for exemption application submission and document upload.*
- *Automated notifications for application updates and deadlines.*
- *Dedicated admin dashboard for application review, processing, and notification.*
- *Dynamic dashboard displaying earned credits, exemptions, and application statuses.*
- *Certainly, here are two additional key features for the One-Credit Course Exemption Portal.*
- *Generate reports and analytics on exemption applications, approval rates, and credit conversion trends.*
- *Intuitive design with error handling, validation, and customizable notification preferences.*

Technologies :

- *Frontend*

  React js

- *Backend*

  Express js, Node js

- *Database*

  MongoDB

Name & Signature of Faculty In Charge