

**StudentName:VISWA R****Seat No:****Project ID: 17****Project title: ONE CREDIT COURSE EXEMPTION**

COMPONENT	TECH STACK
Backend	JAVA WITH SPRING BOOT
Frontend	ANGULAR/REACT.Js
Database	POSTGRE SQL MY SQL
API	OPEN API SOAP API REST FUL API

**Implementation Timeline**

Phase	Deadline	Status	Notes
Stage 1	04/05/2024	In progress	Planning and Requirement Gathering
Stage 2		Not started	Design and UI/UX Prototyping
Stage 3		Not started	Database Design and Implementation
Stage 4		Not started	Backend Development

Stage 5		Not started	Integration and Testing
Stage 6		Not started	Deployment

### **PROBLEM STATEMENT:**

The "One Credit Course Exemption" system is designed to streamline the process for students to apply for and receive exemptions for specific one-credit courses within an educational institution. Utilizing Spring Boot (Java), the system will authenticate users and identify their roles (admin, faculty, student). Admins can verify, edit courses, and approve or send correction notifications for student certificates. Faculty have access to view student information, while students can upload certificates and track their progression. The system ensures efficient role-based access control and simplifies administrative tasks, enhancing user experience and operational efficiency in managing course exemptions.

### **PROJECT-FLOW:**

#### **Purpose:**

The "One Credit Course Exemption" system's goal is to expedite the exemption procedure for certain one-credit courses and provide effective role-based access for instructors, administrators, and students. It improves user experience and administrative efficiency by facilitating certificate management, progress monitoring, authentication, and course verification.

#### **Scope:**

In addition to supporting interdisciplinary learning, one-credit courses provide concise, targeted learning opportunities on certain subjects, accommodate a wide range of student interests, and supplement primary coursework. This system will oversee the exemption procedure, guaranteeing easy access and effective management for these adaptable and focused learning modules.

#### **Business Context:**

The system's goal is to simplify the BIT one-credit course exemption procedure. It will do this by enabling fluid communication between administrators, faculty, and students, which will boost productivity and guarantee a more organized workflow.

### **Consideration:**

- Admins have full access to course management functionalities.
- Faculties can access to one credit course details about students.
- Students can view their own progression of the one credit.
- Integration with Google OAuth for user authentication.
- Consistent performance and availability of the system.

### **User personas:**

- Admin: Manages course additions, edits, and deletions.
- Faculty: Have access about the course details and edit it.
- Student: Upload their progression of one credit and check the details in later period of time.

### **User Stories:**

- Admin: Needs to efficiently manage courses and user roles.
- Faculty: Requires an easy way to manage course materials.
- Student: Wants a user-friendly interface to access course information.

### **Functional Requirements:**

- User Authentication: Secure login using Google OAuth.
- Dashboard: Displays options to manage courses by regulations, departments, and semesters. • Vetting Process: Materials and videos undergo a vetting process before being added to course pages.
- View Source: Faculties can edit course pages through a "View Source" option.

### **FLOW CHART :**



