

Software Requirement Specification for NPTEL Course Exemption

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Problem Statement	NPTEL Course Exemption

1. Introduction

1.1. Purpose:

The core objective of the NPTEL Course Exemption initiative is to expedite the application and approval procedure for students seeking exemptions from certain academic courses, dependent upon their successful completion of pertinent National Programme on Technology Enhanced Learning (NPTEL) courses. By recognizing and rewarding students who have engaged in and finished significant courses through NPTEL, this method hopes to encourage independent study and guarantee academic freedom.

1.2. Scope of Project:

- This software system will act as a portal for the NPTEL course exemption, allowing students to apply for their exemption by fulfilling the necessary requirements, which include completing a course that is not part of the academic curriculum and lasting 12 weeks or 3 credits.

- Administrators can decide whether to accept or reject applied course exemptions by determining if the uploaded credentials are authentic and whether the student in question has already claimed reward points for the requested course.

1.3. Stack:

Front End	Html, Css, Js
Backend	Apache,PHP
Data Base	MySQL

2. System Overview:

2.1. Users:

1. Students:

They have the ability to submit their proofs upon successful completion of the course and apply for course exemption.

2. Admins:

Review the submitted proofs with eligibility criteria and originality. They have the access to approve or reject the exemption.

2.2. Features:

1. Login and registration:

Students can register for an account or login with their existing account .

2. Course Exemption Application Submission:

Students can input relevant details regarding their NPTEL

course including course title, description, duration, credits, and certificate attachments. Upon completion, the application is submitted to the admin interface for review and further processing

3. Application Status:

Students can view the current status of their application and also see the history logs in the option Activity

5. Admin Access:

Admin can view all submitted Course Exemption applications, view application details, approve or reject the application with suitable remarks.

6. Admin's Analytical Dashboard:

Admin can view the number of applications by category of approved and rejected list and can download them.

3. System Requirements Specification:

3.1 Functional Requirements:

User Roles:

1. Administrator

- Manage users (students and faculty).
- Approve or reject exemption requests.
- Manage course mappings between NPTEL and university courses.

2. Students

- Register and log in.
- Submit exemption requests.
- View status of exemption requests.

- Browse and search NPTEL courses.

3. Faculty

- Review and approve/reject exemption requests.
- Suggest new course mappings.

Core Features:

1. User Authentication

- User registration and login.
- Password recovery.

2. Course Management

- Add, edit, delete NPTEL and university courses.
- Map NPTEL courses to equivalent university courses.

3. Exemption Request Management

- Submit exemption requests.
- Track status of requests.
- Review and approve/reject requests.

4. Notifications

- Email notifications for status updates on exemption requests.

5. Reports and Analytics

- Generate reports on approved, rejected, and pending exemption requests.
- Analytics on course usage and exemption trends.

3.2. Non-Functional Requirements:

- **Performance:** The system should handle concurrent users efficiently.
- **Security:** Secure user data and prevent unauthorized access.

- **Scalability:** Should be able to handle an increasing number of users and exemption requests.
- **Usability:** The interface should be user-friendly and intuitive.
- **Reliability:** Ensure high availability and minimal downtime

support additional features and functionalities as per future requirements.

4. Flow Chart:

