

Software Requirement Specification

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Problem Statement	NPTEL Course Exemption

1. Introduction:

1.1 Purpose:

The purpose of this document is to present a detailed description of the NPTEL 12-Week Course Exemption System. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate, and how the system will react to external stimuli.

1.2 Scope of Project:

- This software system will serve as a portal for students seeking exemption from a 12-week NPTEL course. It will enable students to submit their exemption applications and track their status. From an administrative perspective, this system will provide a comprehensive platform to manage and review applications, check eligibility criteria, and make exemption decisions.
- Administrators will have the ability to approve or reject exemption applications. If an application is rejected, the system will provide feedback to the student. If an application

is approved, the student will be notified, and their course enrollment status will be updated accordingly.

2. Technical Components:

Front End	<ul style="list-style-type: none">• HTML• CSS• JS
Back End	<ul style="list-style-type: none">• Python• Django(Python Web)
Database	<ul style="list-style-type: none">• PostgreSQL• MySQL
API	<ul style="list-style-type: none">• OpenAPI• SOAP APIs• RESTFUL API

3. System Overview:

3.1 Users:

1. Students:

- Submit applications for NPTEL course exemption.
- Upload relevant details and documents.
- Monitor the status of their application.
- Receive notifications about exemption decisions.

2. Admins:

- Review submitted exemption applications.
- Approve or reject applications with remarks.
- Manage and schedule exemption-related tasks.
- Access analytical dashboards for overseeing exemption processes.

3.2 Features:

1. Login and Registration:

Students can register for an account or log in with their existing account.

2. Exemption Application Submission:

Students can input relevant details regarding their exemption application, including name, department, course details, reason for exemption, and necessary attachments like certificates. Upon completion, the application is submitted to the admin interface for review.

3. Application Status:

Students can view the current status of their application and see history logs in the "Activity" section.

4. Eligibility Checking:

The system will check the student's academic eligibility from the COE team's database and reward points from the skill team's database.

5. Notification System:

Students will receive notifications about the approval or rejection of their exemption application.

6. Admin Access:

Admins can view all submitted applications, check eligibility, approve or reject applications with remarks, and schedule related tasks.

7. Admin's Analytical Dashboard:

Admins can view the number of applications, their categories, and the status of each application. The dashboard provides insights for project oversight.

4. Functional Requirements:

4.1 User Management:

1. Students:

- Register and log in to the system.
- Submit applications for course exemption with appropriate details and attachments.
- View the status and logs of their applications.
- Receive notifications about exemption decisions.

2. Admins:

- Access control with an analytical dashboard and dedicated features.
- Review and process submitted applications.
- Check eligibility using databases managed by the COE and skill teams.
- Approve or reject applications with suitable remarks.

4.2 Exemption Application:

1. Application Form:

Students can submit applications with appropriate details. The application form contains:

- Student Name
- Roll Number
- Department
- Course Title
- Courses Details
- Reason for Exemption
- Attachments (Supporting documents like course completion certificate)

2. Eligibility Check:

- The system checks academic eligibility from the COE team's database.
- The system checks reward points from the skill team's database.
- If it is a non-academic course and reward points are not earned, NPTEL course exemption is eligible.

- If reward points are earned or it is an academic course, then exemption is not eligible.

3. Application Status:

- Students can view the current status of their application.
- If the application is rejected, the remarks are shown.
- Students can also see logs of their applications.

4.3 Notification System:

- Notify students about the approval or rejection of their exemption application.
- Provide feedback and reasons for rejection if applicable.

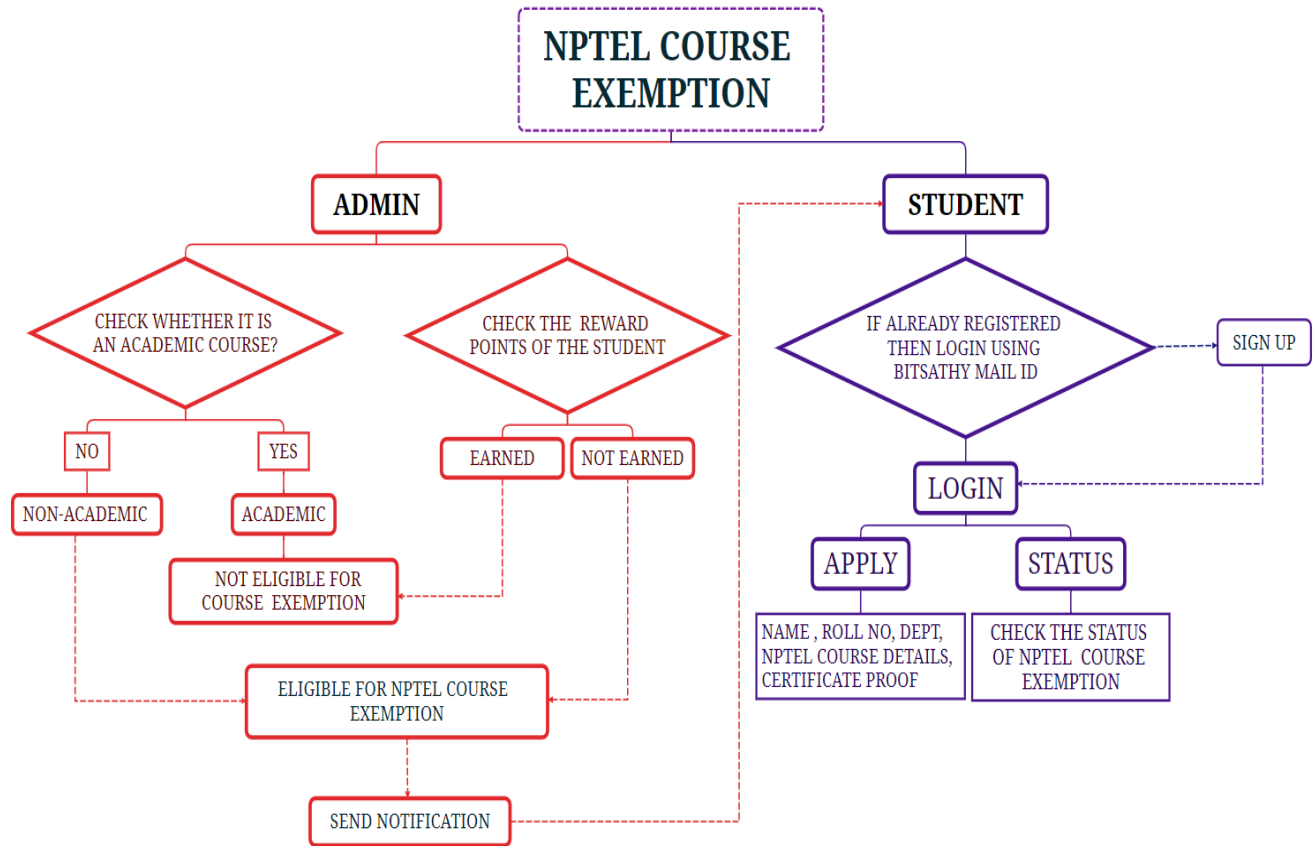
4.4 Admin Dashboard:

- Admins can view all submitted applications.
- Applications can be filtered by category.
- Admins can view details of each application.
- Admins can approve or reject applications with suitable remarks.
- Admins can schedule related tasks for approved applications.

4.5 Analytics Dashboard:

- Admins can view the number of applications by category.
- Number of exemption requests based on different criteria.
- Insights on eligibility decisions based on COE and skill team database checks.

5. Flowchart:




Sample:

[Home](#) [Apply for Exemption](#) [Check Status](#) [Admin](#)

12 Weeks NPTEL Course Exemption

This portal allows students to apply for an exemption from a 12-week NPTEL course.
Please log in to submit your application or check the status of your existing application.

Login

 Login with Google

Email ID:

Password:

Sign In