Project

On

**Lecture Scheduler**

**Software Requirements Specification**

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**Software Requirements Specification**

1. **Introduction**:

The students of NIT Trichy often face a problem to know the time table of each day, which faculty will be taking lecture today and what will be the timing of his lectures. Often the students face a problem to meet the faculty member due to their schedule.

**1.1 Purpose**:

So to solve above problem I am trying to make a module which will generate the schedule of a specific faulty member. Only input we have to give is the faculty member name. After inputting the name it will show the schedule of faculty member, in which year he has lectures today and what will be the timing of his lectures. In addition to the scheduler there will be also the information of the faculty member. Initially I am trying to make it for only MCA faculties. Later on it will be applicable for other department faculties also.

1. **Scope:**

The Scope of this project includes:

This project shall encompass the easy information of lecture schedule. Its intended for students who wants to know the schedule or wants to meet the faculty member.

**1.3 References:**

NONE

**1.4 Technologies to be used:**

* PHP
* HTML
* CSS
* JS

**1.5 Overview:** The SRS will include two sections, namely:

-I**- Overall Description:** This section will describe major components of the

system, interconnections, and external interfaces.

-I- **Specific Requirements:** This section will describe the functions of actors,

their roles in the system and the constraints faced

by the system.

**2. Overall Description**:

1. Product Perspective:

The product is independent and totally self-contained. However, it provides information of scheduling of lectures and faculty’s information. The product is not a part of any other system and runs independently.

1. Software Interface:
   * + Front End Client: Browser
     + Web Server: Apache
     + Data Base Server: MySQL
     + Back End: PHP

**2.3** Product Functions:.

Checking availability and schedule of faculty member. It includes :

* Login

Every user should first login and provide an identity proof.

* Checking availability

Every person will first check for the availability of free time of faculty member.

2.4 User Characteristics:

The User is expected to be Internet literate and to be able to view and download the form.

**2.5** Constraints:

* The system is confined to smaller data size i.e. files of smaller size.
* The speed of access is constrained by database size and internet speed.

**2.6 Use Case Diagram:**

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2.7 Class Diagram:

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**2.8 Sequence Diagram:**

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**2.9 State Chart:**



* 1. **Database Design:**

**E-R Diagram:**

Access Database

Schedule

Login

Faculty

Student

2.11 Assumptions and Dependencies:

* The Software functionality is restricted to the capabilities of the technology in use.
* Since the data coming to the database would increase in the coming days there might be some additional cost that might be incurred in retrieval of data.
* Since the application is web based, it is assumed that the user has an internet connection without which it would be impossible to view the application.
* The speed of viewing the data / mailing or reports will depend upon the internet connection speed of the user.

1. **Specific Requirements:** 
   1. **Use Case Reports:** 
      * List of users can be generated.
      * List of data volume used by each user can be generated.
      * Report on usage by each user can be generated.
   2. **Supplementary Requirements:**

* There should be power back up so as to ensure consistent data and no loss in transaction.
* There should be internet connection to provide access to application.