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# SRS DOCUMENT

# VIRTUAL LEARNING ENVIRONMENT

# Submitted to:

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# Objective/Vision

* To provide web based application for online course design, course calendar publishing and student’s registrations for self-based learning.
* Content administration, assignments and assessments.
* Virtual classrooms.

# Background Information

As we know that Virtual learning is a need of many. With increasing number of students, one needs to register their course. The problem is that the preferences of students vary with respect to course they want to study. The target users are the students, faculties, etc.

The system should provide a student registration module where students can register themselves for an offered course. The application must support popular browsers such as Internet Explorer, Firefox and Chrome.

# Users of the System

* Students
* Faculty
* Parents
* Admins

# Stakeholder Information

* Project Development and Design Team
* Customers/Users

# Requirements:

# Functional Requirements

1. Register
2. Login
3. Course Syllabus
4. Dashboard displaying student activity
5. Course Content
6. Self-Assessment quizzes
7. Communication with faculty
8. Role-based Access
9. Statistical Reports

# User Stories:

1. Register:

The system should provide a student registration module through which students can register themselves for an offered course.

1. Login:

The system should provide a login page for existing/new users.

1. Course Syllabus:

The system should display the course syllabus for each course.

1. Dashboard displaying student activity:

The system must provide a dashboard which will be the home page after login. The dashboard should display courses registered, upcoming course calendar, etc.

1. Course Content:

The system should provide the course contents such as copies of lecture in the form of text, audio or video presentations etc.

1. Self-Assessment quizzes:

The system should offer self-assessment quizzes which will be displayed to users after each course attended.

1. Communication with faculty:

The system should support email for communication with the faculty for support.

1. Role-based Access:

The system should also provide role based access to students, faculties and course administrator.

1. Statistical Reports:

The system should also provide various statistical reports accessible to administrators.

# Non-Functional Requirements

1. HTTPS enables access to web application to secure access of confidential data.
2. The system must be designed for better performance.
3. The system must be scalable in future.
4. Component based architecture should be used.
5. There should be loose coupling between software components.

# Optional Features

* The main objective of this project is to design a Virtual Learning Platform which can be extended in future and can be used by many universities.

# User Interface Priorities

1. Professional and standard look and feel
2. The application must support popular browsers such as IE, Firefox and Chrome
3. Make use to reporting tools such as JASPER to generate statistical reports
4. Reports should be exportable in XLS , PDF formats

# Reports

1. Annual student data reports showing course applicants, enrollment and results
2. Also the report framework should be extensible to add more reports in future.

# Technologies to be used

UML, Java, XML, JQuery, Web-services, SOA, UML modeling tool

Use Cases

