# UNILOG.COM

# Requirement Analysis

# Concept:

The idea is to design a forum/platform for students and teachers to connect to each other online through the web.

The web application will require authentication for each individual (students and teachers) and the lecture notes and video lectures of each subject taught in that semester would be posted online for student convenience on their profiles.

The concept of past papers will be introduced so that the students can have access to all the past papers of their subjects online for revision point of view. For every lecture note, there would be a discussion panel where teachers would be able to take part in the discussion for further elaboration on a particular topic.

Students would teach students.

The teachers will have their own portal to upload information about next lectures and instead of mails, they would simply share the agenda on their own notice boards with deadlines, syllabus descriptions, course outline, class timings or make up class schedules so that students are conveniently informed.

# User-Specifications

1. Account per student/teacher/open-course students
2. Admin Accounts.
3. Course list from department’s database for each student.
4. Progress of university-enrolled students per week/day.
5. Courses are allotted per session.
6. Teachers can view all their subscribed student accounts and their relevant progress.
7. Notice board facility by teachers.
8. Teachers can upload tests with time limits and then post solutions for better understanding.
9. Lecture notes uploaded by students, not teachers.
10. Teacher can lay responsibilities to any one of the students enrolled in the course to be able to update course materials (pdf/ppt/videos)
11. Discussion board for every lecture taken where teachers can participate. (Best answer voting as well)
12. For every lecture, additional content for help.
13. Project proposals and project information for record.
14. Full proper documentation of projects.

# Detailed Specification:

* When roll numbers are assigned to the new batch students, every new student will be required to sign up for the UniLog account by entering their newly assigned roll numbers. Every roll number can sign up for only one account.
* Admins will create account for teachers.
* Teachers will create courses. Teacher can also transfer course contents from one course to another.
* Teachers can also share contents with each other.
* University students will enroll in courses by sending a request in the course.
* Open course students can enroll in any completed course without any request. They will not have any permissions to share or extract data other than course contents.
* University Repeating Students will be allowed to join the teachers running course if teacher allows.

# Actors

* Who’s going to use the system?
  + Students, Teachers, Admins (Primary users having their own privileges, each sees only a part of the system.
  + Open course systems having access to only completed courses.

# Sprint 1 “The Skeleton”

## Objectives

1. Object oriented relational database model. For the users.
2. Basic site structure.
3. Sign-up and sign-in functionality for the users on the site.

# Sprint 2 “The Wall”

## Objectives

1. OO-RDM for the storing all the posts, comments/discussions and notifications.
2. The user “Wall” page for displaying all the notifications.

# Developer-Specification

* Repository hosted on Github from start.
* Netbeans IDE will be used
* XAMPP Stack for development on local server.
* Agile method of documentation is recommended.
* Maximal use of open source libraries e.g. Bootstrap, jQuery, Node.js.
* Use of code-igniter PHP framework.
* MVC (Model Viewer Controller) architecture.