

# Software Requirements Specification (SRS) Document

Building Custom LMS using Moodle

Team 51

G V Krishna Chaitanya, Soham Korade, Santhoshini Thota, Gaurav Bhole

## Brief problem statement

Moodle as an LMS only contains Courses, Teachers that create said Courses and students who can attend them. Our client wishes to build a Custom LMS through either customizing Moodle or any other FOSS tech stack which will have similar features as Moodle but also allow for Teachers to be associated with Organizations and Courses will be created by Organizations instead of the Teachers.

## System requirements

MongoDB for Database, Express.js and Node.js as backend, and React as frontend, together comprising the MERN stack.

### Teachers

- Allows them to join courses offered by Organization.
- Can learn from courses offered by Organization.

### Organizations

1. Allows them to create and have control over courses.
2. A user or a teacher can join an Organization.

### Courses

1. Courses contain units.
2. Units contain Lessons.
3. Lessons contains lectures inside them.

**Feature requirements (described using use cases)**

No.	User Case Name	Description	Release
1.	Learner Sign Up/Sign In	A page for learners to sign in or register to join LMS	R1
2.	Course Creation	Creation of Course by Organization to teach learners	R1
3.	Course Registration	Learner registering to join a course	R2
4.	Course Dashboard	A place for Resources to be shared for learners who joined these courses	R2

**Use case description**

<b>Use Case Number:</b>	UC-01
<b>Use Case Name:</b>	Learner Sign Up/Sign In
<b>Overview:</b>	A page for learners to sign in or register to join LMS
<b>Actors:</b>	Learner
<b>Pre condition:</b>	None
<b>Flow:</b>	Main (success) Flow: User signs in/ registers
<b>Post Condition:</b>	User must be logged in

<b>Use Case Number:</b>	UC-02
<b>Use Case Name:</b>	Course Creation
<b>Overview:</b>	Creation of Course by Organization to teach learners
<b>Actors:</b>	Organization
<b>Pre condition:</b>	Existence of an Organization
<b>Flow:</b>	Main (success) Flow: Course must be created

<b>Post Condition:</b>	Course must be created
------------------------	------------------------

<b>Use Case Number:</b>	UC-03
<b>Use Case Name:</b>	Course Registration
<b>Overview:</b>	Learner registering to join a course
<b>Actors:</b>	Learner, Course
<b>Pre condition:</b>	Existence of Course, Logged in Learner
<b>Flow:</b>	Main (success) Flow: Learner joins Course
<b>Post Condition:</b>	User be a part of the Course

<b>Use Case Number:</b>	UC-04
<b>Use Case Name:</b>	Course Dashboard
<b>Overview:</b>	A place for Resources to be shared for learners who joined these courses
<b>Actors:</b>	Learner, Course
<b>Pre condition:</b>	Existence of Course, Logged in Learner
<b>Flow:</b>	Main (success) Flow: Learner can download resources
<b>Post Condition:</b>	Learner can download resources

### Test Backlog

We can test the system by using its functionalities as an LMS from all possible positions (learners, organizations). This will provide a through test of the LMS.