

IT314 - Software Engineering



Group 26

Online course management system

**Lab 3 - User stories and
Sprints**

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User Stories

Administrator

1. Front of card (User's perspective) :

As an administrator, I want to be able to manage user's accounts, add and remove courses, and generate reports on system usage and performance, so that I can ensure the online course management system is meeting the needs of our organization and users.

Backside of card (Acceptance criteria) :

- The system should enable administrators to add and remove courses, manage enrollment, and track student progress and performance.
 - Administrators should be able to create new user accounts, and manage user roles and permissions.
 - The system should provide an administration panel for administrators to manage user accounts, courses, and system settings.
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2. Front of card:

As an administrator, I should be able to see a list of the number of students enrolled in each course.

Backside of card:

- The system should provide a table of courses and number of students enrolled in that course to the Administrator.
 - System should allow the admin to add or remove students from courses.
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3. Front of card:

As an administrator, I should be able to view Instructor feedback forms results, so that I can look over instructors whose performance is not good.

Backside of card:

- The system should provide a bar chart report of feedback to the administrator.
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Student

1. Front of card :

As a student, I should be able to browse the list of courses available and enroll for particular courses so that I can study desired subjects and access their course material.

Backside of card :

- The system should provide a catalog of courses that can be searched and selected. Each course should have a name, description, instructor.
 - The system should make requests to the instructor for enrolling in the course.
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2. Front of card :

As a student, I want to be able to access reports on my own performance and progress in the course, so that I can track my own learning and identify areas where I need to focus more attention.

Backside of card :

- The reports should be easily accessible and navigable, with clear visualizations and summaries of the data.
 - The reports should allow students to compare their performance with the class average and identify areas where they need to improve.
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3. Front of card:

As a student, I want to be able to trust that my personal and academic information is protected and secure, so that I can focus on my learning without worrying about data breaches or unauthorized access.

Backside of card:

- The system to be secure and protect sensitive information, such as my grades, personal information, and confidential communications. Passwords should be encrypted and stored securely to prevent unauthorized access.
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4. Front of card :

As a student, I want to be able to communicate with my instructors and classmates through a built-in messaging system, so that I can ask questions, discuss regarding course material.

Backside of card :

- The system should provide a messaging system for students to communicate with instructors and enable students to view and respond to messages.
 - The system should allow students to view their message history and keep track of conversations.
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5. Front of card :

As a student, I want to access course content like notes and lecture slides given by the instructor from any device, including my laptop, tablet, or smartphone, so that I can study and complete coursework on-the-go.

Backside of card :

- The online course management system should be fully responsive and accessible from any device, including laptops, tablets, and smartphones.
 - The system should be optimized for different screen sizes and resolutions to ensure a consistent user experience across devices.
 - System should show course content to students course wise.
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6. Front of card :

As a student, I want to be able to see the due dates for upcoming assignments and should be able to submit assignments/quizzes, so that I can manage my time effectively and avoid missing deadlines.

Backside of card :

- The system should provide a calendar or dashboard that shows students the due dates for upcoming assignments and other work.
 - The system should be available 24/7 to allow students to access course materials and submit assignments at any instant before the due date.
 - The system should have a proper dashboard to submit assignments.
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7. Front of card :

As a student, I should be able to fill feedback forms for instructors.

Backside of card:

The system should provide a form to each student only for instructors whose course's he/she has registered.

Instructor

1. Front of card:

As an instructor, I want to be able to send announcements to all students enrolled in a course.

Backside of card :

- The announcement feature should be available in the course management system.
 - The instructor should be able to view the history of announcements sent for each course.
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2. Front of card :

As an instructor, I want to be able to create and edit course content such as lecture slides, assignments so that I can provide a dynamic and engaging learning experience for my students.

Backside of card :

- The system should provide a platform for instructors to upload course content such as lecture slides, assignments are created or edited.
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3. Front of card :

As an instructor, I want to view and respond to student questions and messages, so that I can provide support and guidance throughout the learning process.

Backside of card :

- The system should provide a messaging system for instructors to communicate with students and enable instructors to view and respond to messages.
 - The system should allow instructors to view their message history and keep track of conversations.
-

4. Front of card :

As an instructor, I want to see the progress report of any student and provide feedback, so that students can view the reports and analyze their work and improve upon that.

Backside of card:

- The system should provide a feature using which instructors can see progress reports of students based on their performances and also provide personalized feedback to each student.
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5. Front of card:

As a student/instructor/administrator I want the platform to have secure login and authentication features, so that unauthorized individuals cannot access my account or the course content.

Backside of card :

- The platform should use strong and unique passwords and enforce password complexity rules.

- The platform should have a session management system that automatically logs out inactive users and invalidates sessions after a period of time.
 - The platform should use encryption and secure protocols (e.g., HTTPS) to protect user data in transit and at rest.
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6. Front of card:

As a user, I want the system to be compatible with different browsers and browser versions, so that I can access the system from my preferred browser without encountering compatibility issues.

Back-end user story:

- As a developer, I want to ensure that the system is compatible with a range of browsers and browser versions. This includes testing the system with popular browsers such as Chrome, Firefox, Safari, and Edge, as well as older versions of these browsers. I also want to implement web standards-compliant coding practices and use feature detection instead of browser detection to ensure that the system works across different browsers and versions. Additionally, I want to stay up-to-date with the latest browser releases and make any necessary updates to the system to ensure ongoing compatibility.
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SPRINTS

Sprint 1

- Develop a registration page where students can **create an account** and **sign up** for courses.
- Implement a **course creation page** where instructors or administrator can **create new courses**, including setting a course description.

Sprint 2

- Develop a **student dashboard** where students can view their enrolled courses, upcoming assignments and deadlines, and grades.
- Implement an **instructor dashboard** where instructors can manage their courses, and post announcements.

Sprint 3

- Develop a course **search feature** where students can search for courses by keyword, subject, and instructor.
- Implement a system where students can request to **join the course** and can **register** if the instructor approves.

Sprint 4

- Develop a **course content management system** where instructors can upload and organize course materials such as slides, videos, and readings.
- Add the ability for instructors to **create** assignments, quizzes, and other assessments for their courses.

Sprint 5

- Develop a grading and **feedback system** where instructors can grade student assignments and provide feedback.
- Implement a **reporting system** that provides detailed analytics on student performance, including grades, and progress over time.

Sprint 6

- Implement a **discussion forum** where students can ask questions, share ideas, and communicate with instructors.
- Develop a **course evaluation system** where students can provide feedback on the course and instructor.
- Add the ability for students to **submit** assignments and quizzes online.