VIRTUAL CLASSROOM

Group : 3

Software Engineering

Team

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OBJECTIVES

Facilitate Remote Learning

Provide an interactive platform for students and teachers to connect in a virtual environment

Enhance Communication

Integrate tools for real-time messaging, video conferencing, and discussion forums to foster collaboration.

Centralize Educational Resource

Enable easy access to course materials, assignments, and multimedia resources.

Streamline Class Management

Automate tasks such as attendance tracking, grading, and assignment submissions.

OBJECTIVES

Promote User-Friendly Design

- **Develop an intuitive interface tailored to the needs of both educators and students.**

Support Customization

Allow educators to personalize course content, schedules, and assessments

Incorporate Interactive Features

Include tools like quizzes, polls, and whiteboards to make learning engaging and effective
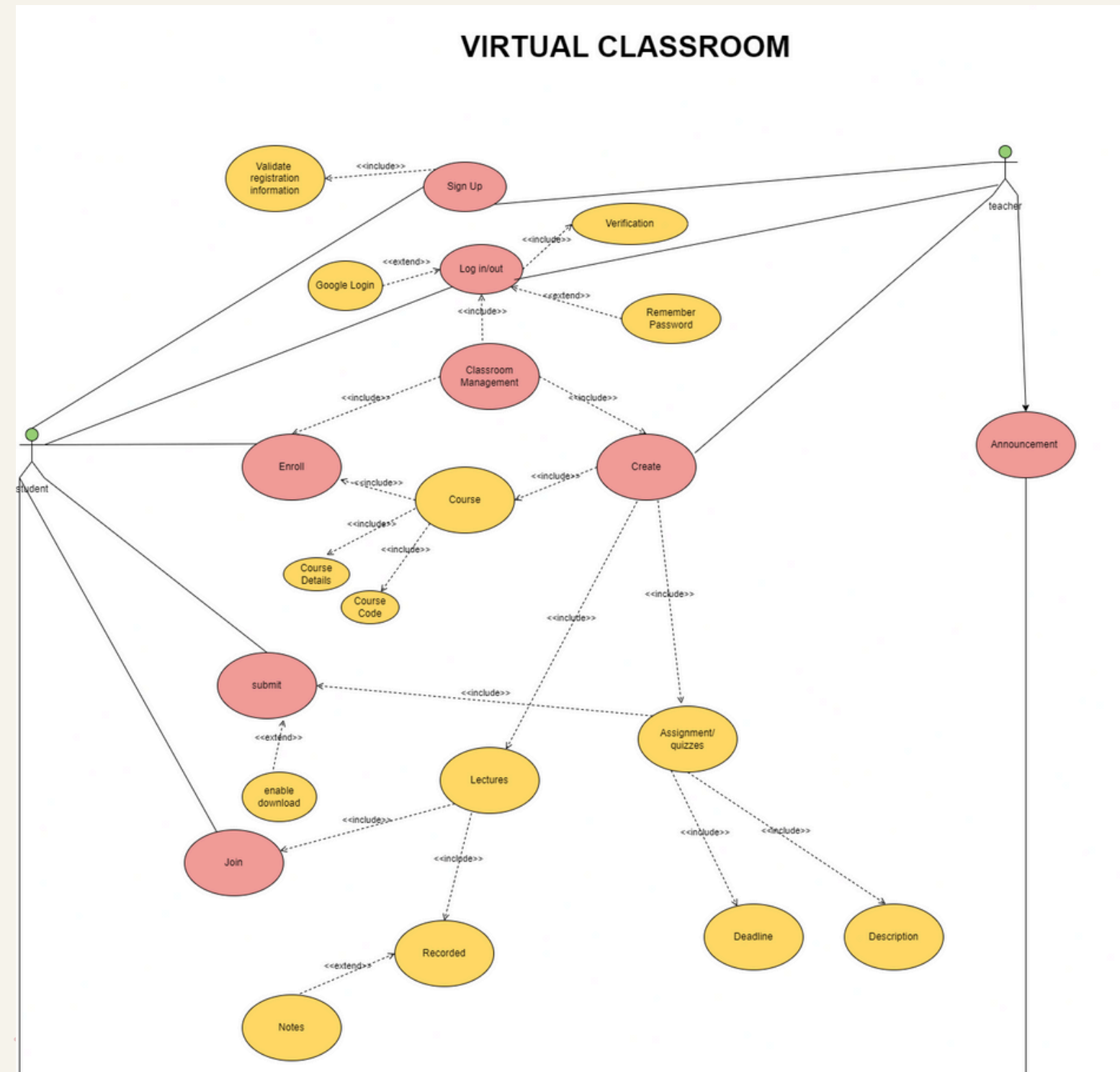
Encourage Continuous Improvement

Implement feedback mechanisms to improve the platform based on user input.

MILESTONES

We want to scale this website to large scale so that more number of users are able to use our website by more refinishing of the website

USE-CASE DIAGRAM

VIRTUAL CLASSROOM

BACKLOG OF USER STORIES AS SPRINTS

User Management and Basic Authentication

User Stories: Student/Teacher – Create Account , Log In/Out, Signup, Forgot and reset password

Details : This sprint focuses on account creation, login/logout and signup functionality, redirection to home page/password reset page, Forgot and reset password functionality. Essential for setting up the basic user flow. In general, create a core base for the upcoming features.

Classroom and Course Management

Details: This sprint covers the creation of classrooms, enrolling in courses, and managing course like lessons, materials(books).

User Stories:
Teacher – Classroom Creation
Student – Course Enrollment
Teacher – Manages course (Lessons, Course materials)

BACKLOG OF USER STORIES AS SPRINTS/SPRINT DETAILS

Assignment Management

Details :Manages creation of assignments, submission of assignments by students.

User Stories:
Teacher – Create Assignments
Student – Submit Assignments

Discussion Forums and Announcements

User Stories:
Student, Teacher – Participate in Discussion Forum
Student, Teacher – Announcements

Details :Implements discussion forums and announcement features for effective communication within the platform.

LEARNINGS

1 **Understanding User Needs:**
The importance of gathering detailed feedback from both educators and students to ensure the platform meets their expectations.

2 **The Value of Planning:**
Effective project planning and requirement analysis significantly reduce development time and unexpected challenges

3 **Collaboration is Key:**
Close teamwork and communication among developers, designers, and stakeholders improve the final product

4 **Balancing Features and Simplicity:**
Striking the right balance between offering advanced features and maintaining an intuitive interface is critical for user satisfaction.

LEARNINGS

5 Testing is Crucial:
Regular testing throughout development helps identify and fix issues early, reducing the cost of errors.

6 Security is Non-Negotiable:
Implementing robust security measures, such as encryption and user authentication, is essential to protect sensitive data

7 Time Management:
Adhering to timelines and milestones requires discipline and effective project management strategies.

8 Adaptability to Change:
Being flexible and ready to adapt to evolving requirements or new challenges ensures project success.

ACHIEVEMENTS

Development of a Feature-Rich and User-Friendly Platform

- Successfully created a virtual classroom website with essential tools like assignment management, and secure user authentication, tailored for an optimal learning experience.

Successful Deployment and Scalability

- Delivered a fully functional, responsive platform designed to handle increasing user demand, ensuring accessibility and reliability for diverse educational needs

MISTAKES

- **Unable to implement all crud(CREATE,READ,UPDATE,DELETE) functions all the functions**

- **Faced some issues while managing the GitHub repository**

- **Were not able to implement all the functionalities as per the previous use case diagram**

OVERALL RATING: 8.5

With the implementation of the majority of the essential features, the project was effectively finished. However, we encountered difficulties implementing several parts, and some advanced functionalities were not fully incorporated. The team produced a strong platform by working together effectively.

THANK YOU