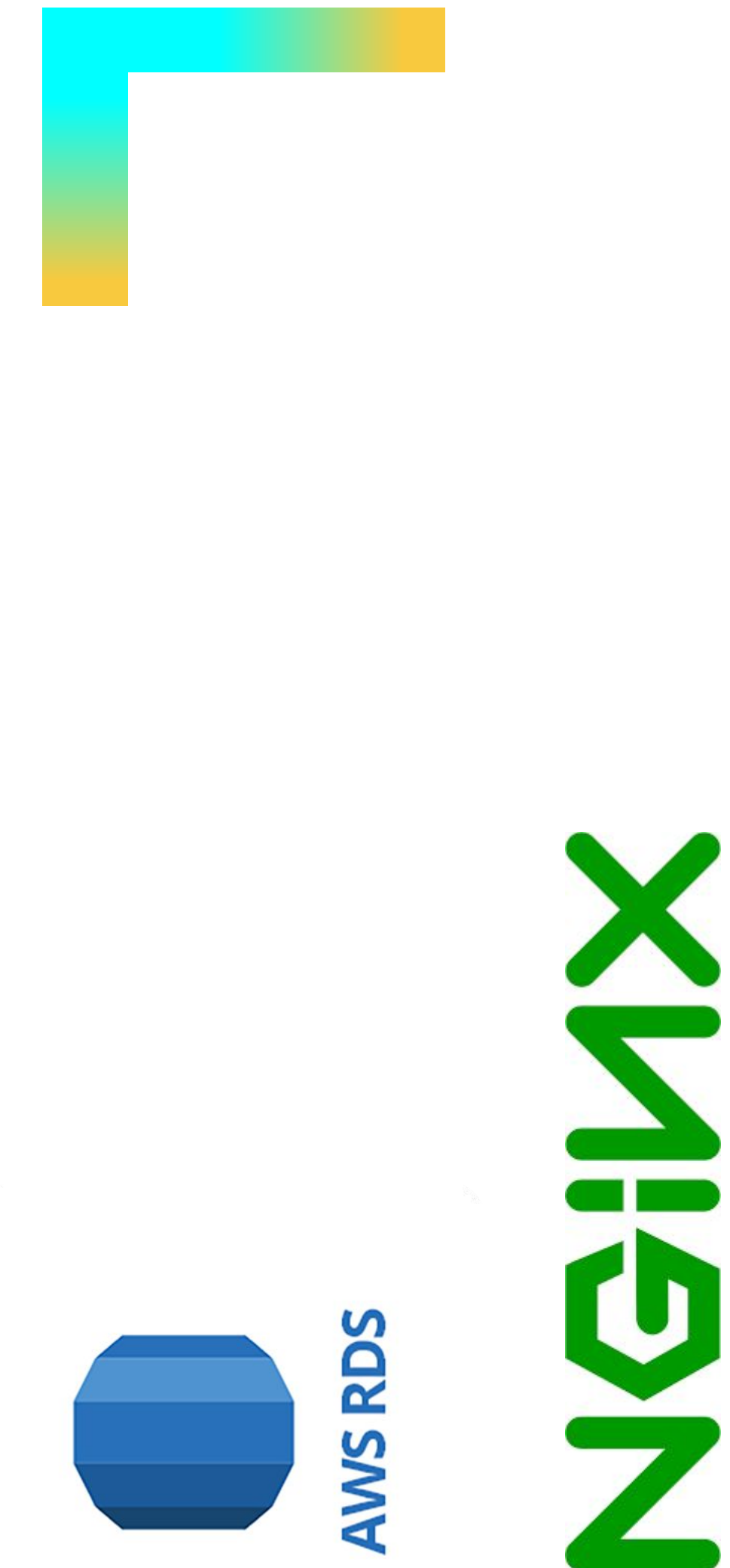


Knight Foundation School for

Fall 2024 Senior Design Project

Courses / Assignments

Students: Anabella Amanau, Sebastian Abarca, Joshua Lopes, Nicholas Donahue
Instructor/Faculty: Professor Seyedmasoud Sadjadi, Florida International University



PROBLEM

For educators, it is important that they can keep track of student progress and create suitable assignments for students. Different schools/classrooms move at different speeds and different students may need different questions asked to them to help them learn.

SOLUTION

The solution we came up with to address this problem is our Courses and Assignments. Educators can create different courses to enroll students in. Within courses, assignments can be created and assigned to students which help track the students progress across the different categories/topics that are taught in the course. We also provide features like modules which further help educators sort their content.

REQUIREMENTS

- Ability for educators to create courses
- Ability for educators and course tutors to manage course members
- Ability for educators to create course assignments
- Ability for students to see assignments, and view assignment attempts and progress
- Track and display the time students spend on course-related activities to assess engagement.
- Provide options for tutors to create quizzes, exams, or practice tests directly within the course module.

SUMMARY

This upgraded Learning Management System revolutionizes the educational experience by providing a highly interactive and personalized learning environment. With its robust architecture and innovative features, it not only enhances student engagement and performance but also simplifies administrative and teaching efforts, setting a new standard for digital education platforms.

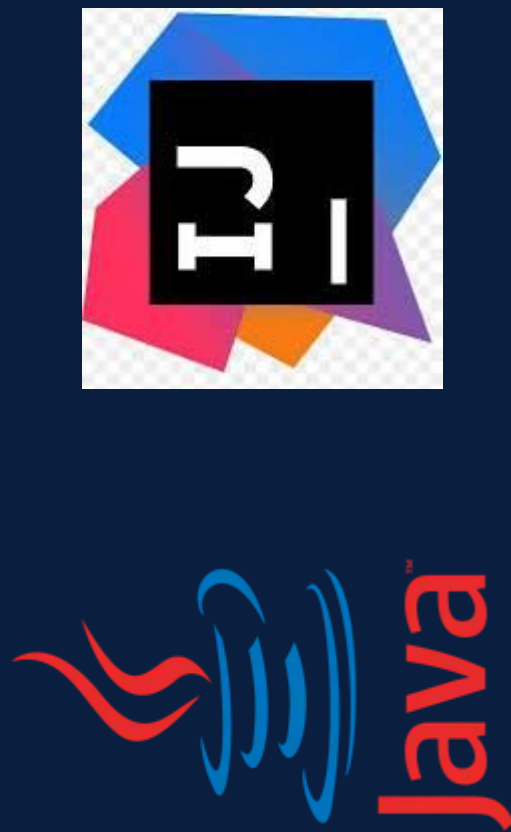
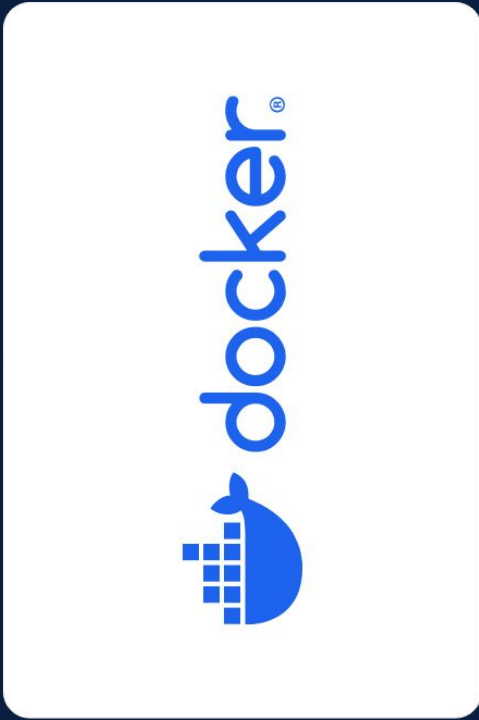
IMPLEMENTATION

The implementation phase involves integrating advanced modules for analytics, a more interactive user interface, and personalized content delivery. Using technologies like Spring Boot for backend services and Angular for the frontend, the system is developed to be highly scalable and responsive, catering to the diverse needs of educational institutions.

Object Design



KFSCIS



Engineering
& Computing