RTX Gamification Classroom

The Team

Grace Hsieh
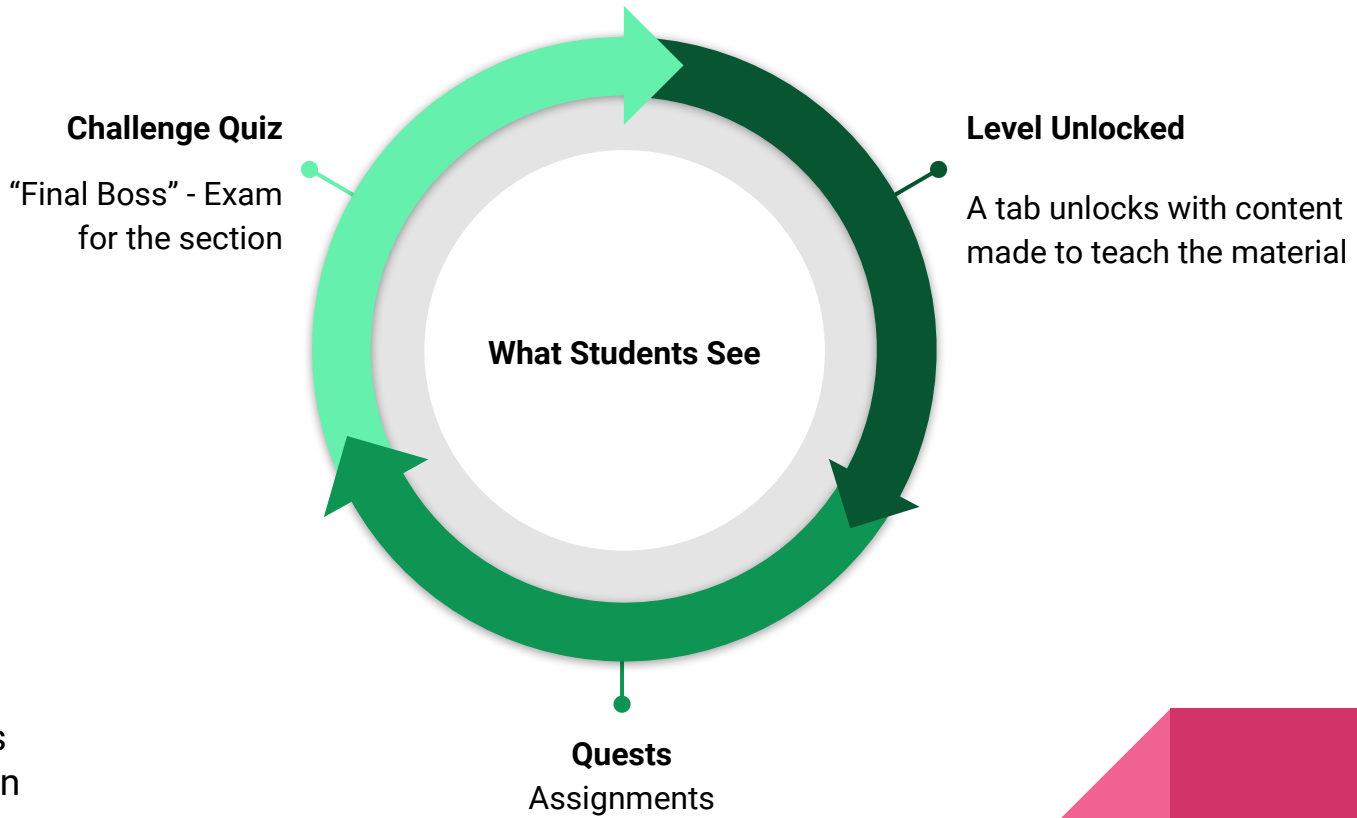B.S. Computer Science

Brett Lewerke
B.S. Software Engineering

Chase Spigarelli
B.S. Computer Science

Sponsor

Professor Terry E Baxter

- Civil and Environmental Engineering
- Northern Arizona University

What Students See

Challenge Quiz

"Final Boss" - Exam for the section

Level Unlocked

A tab unlocks with content made to teach the material

Quests
Assignments

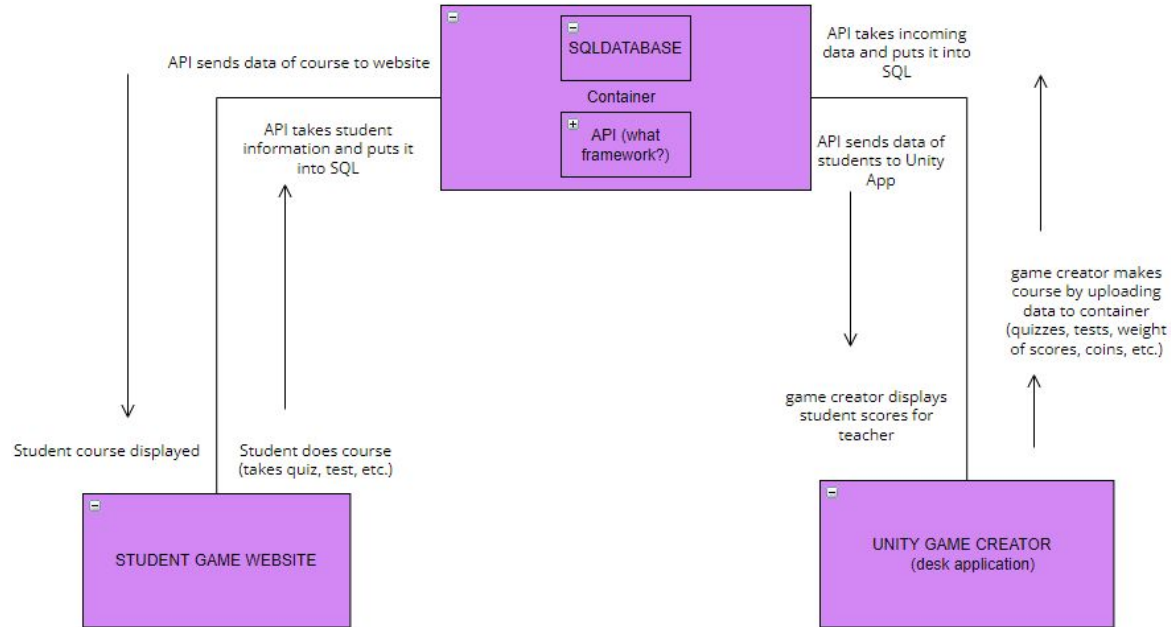**Side Quests**
- Minigames
- Coin Turn-in

Why are we making a new learning management system?

- Professor's layout is unsustainable
  - The bigger the class, the harder to maintain
- Current systems are inadequate
  - Doesn't allow for all the features Prof. Baxter wants
- Student Motivation
  - Better results from higher student engagement

Intro to solution

- Student Course Website
  - Website used by students for the course
- Desktop Application
  - Professor's class building platform
- Making the course feel "gamey"
  - Levels for students to complete

Early Architecture

Plan for Development

- Requirements for meetings
  - Bi-weekly client meetings (weekly if necessary)
    - project details and requirements
    - prepared questions **and** agenda
- Technical Investigation
  - ASP.NET framework
  - PHP
  - Unity
  - Amazon RDS for MySQL
- Other Issues
  - Adaptability of course information to HTML

GAMING ED.
CAPSTONE 2022

Thank You

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