Freshman RPG Companion Application and Game Manager

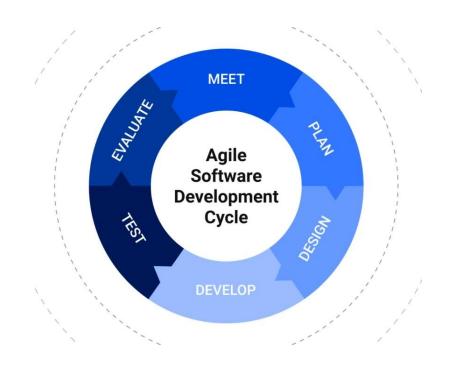
SWE420: Extreme ProgrammingMohamed Aboud, Luke Henry, Spencer Hooper, Rachel
Johnston, Austin Pliska, Thomas Prusak, Devin Stroop





Our Development Process

- Agile development process
 - Task planning and load balancing
 - Standups
 - Retrospectives
 - Customer meetings
- > Tools used
 - o Zentao
 - Jamboard
- Development strategies used
 - Pair programming
 - Sit together
 - o TDD





Freshman RPG Project Overview

Desktop Game

 Provide an interactive way for first-year students to learn about Shippensburg University, where they can walk around a virtual representation of the campus and complete objectives to earn points.

Companion App

- Provided students a way to scan QR codes across campus to complete select objectives.
- Became main focus of our project

Game Manager

 Provide game administrators with a method to manage the game (i.e. add objectives, players, NPCs, etc)

Spring 2024 Goals

- Add more functionality to the game manager for more control and capabilities.
- Expand the companion app to more than just a QR code scanner.
- Make our customer happy!

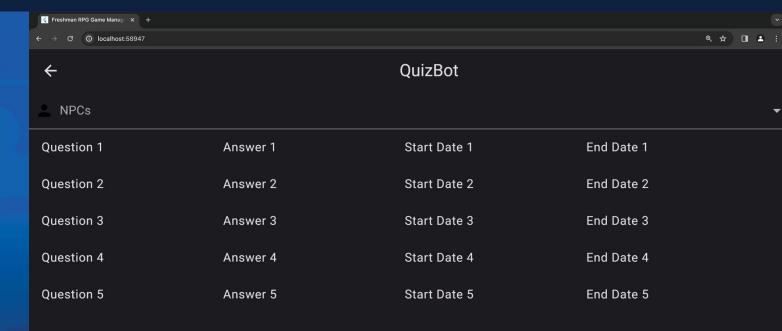




Iteration 1: Game Manager-QuizBot, Crews, and Quest Control

Adding more functionality to the manager for more control







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In Progress

Awaiting Story

Verificaiton

Open on a Jamboard

Completed

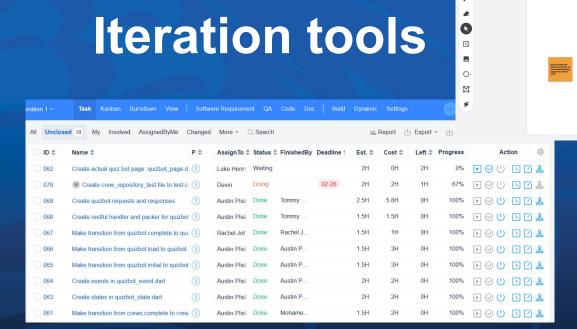
When quest details functions

Iteration 2

Set background Clear frame

Manager: Quest

Not Started





Iteration 2: Switching Focus to the Companion App

Building Onto the QR Code Scanner



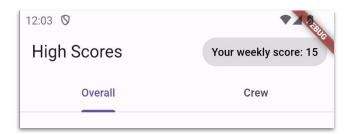
The Companion App

- We implemented functionalities to display the player score, and a list of high scores in the current week
- Added a time stamp to the quests to mark the date of their completion.
- The player can see the overall standing, and also within his crew
- By the end of this iteration the score was shown on the button that takes the player to the list of scores (will be changed afterwards)



User can switch between "overall" and "Crew" tabs to see overall standing and within crew standing

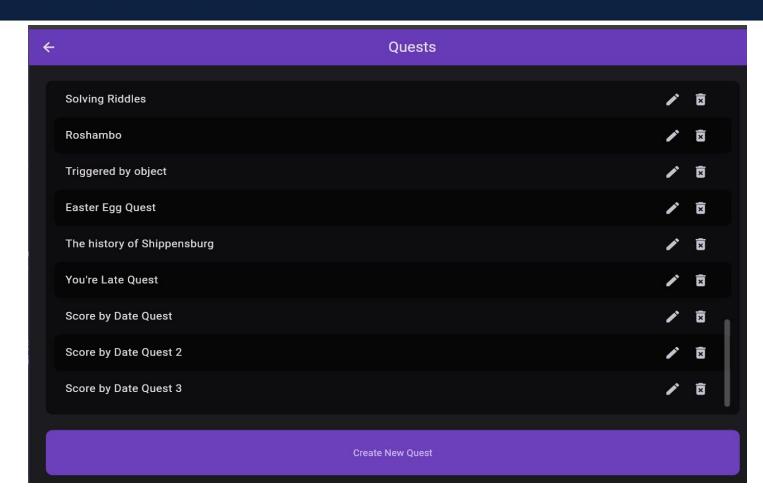
User can see his score on the top right corner of the screen



12:03 🛇		▼ X Raily
High Score	S	Your weekly score: 15
Overall		Crew
Placemen	t Name	Scores
1	Merlin	15
2	ScoreP9	8
3	ScoreP8	8 6
4	ScoreP4	6
5	ScoreP6	6
6	ScoreP7	6
7	ScoreP5	5 5
8	ScoreP3	3
9	ScoreP1	0 2
10	ScoreP2	2 2

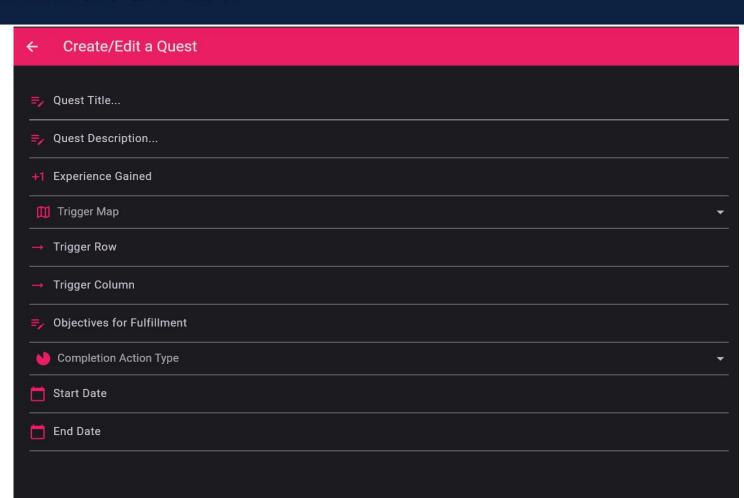


In the game manager, we added functionality to edit and delete quests.





- -Initially there was only one page in which we use to create and edit a quest.
- -Making separate pages for creating and editing a quest.





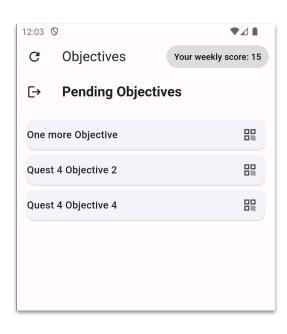
Iteration 3: Companion App-Quest Page Intuitivity and Added Info Button

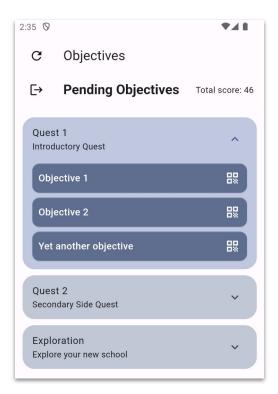
Designing Landing Page to be Clearer



Grouping Objectives by Quest

- Instead of listing all available objectives, created dropdowns for quests that held objectives.
- Added Total Score to main objectives page and removed weekly score button

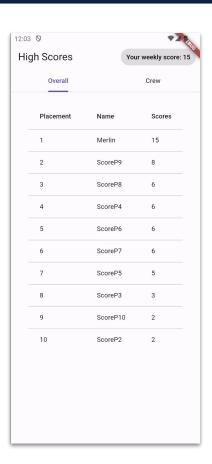


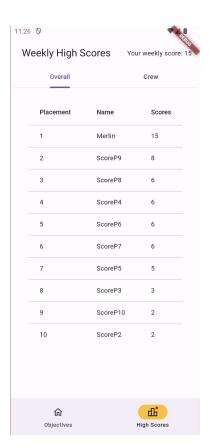




High Scores Page Redesign

- Added Navigation Bar at the bottom of the page
- Weekly Score button became a Label

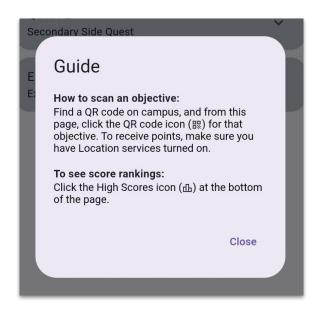


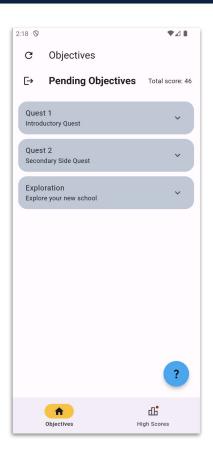




Info Button

- Added an Info Button
- Gives info on how to navigate and use the app







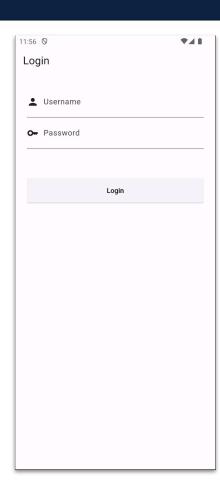
Iteration 4: Beautifying the Companion App

Branded the Application by Making Project-Wide Cosmetic Changes



App-Wide Redesign

- Added Ship branding
- Changed app widgets to use non-native UI elements for a cleaner feel
- Customized styling of widgets and added color

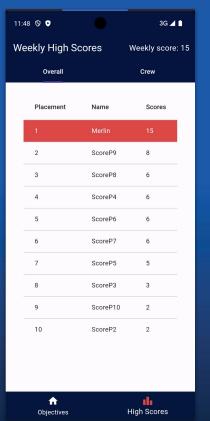














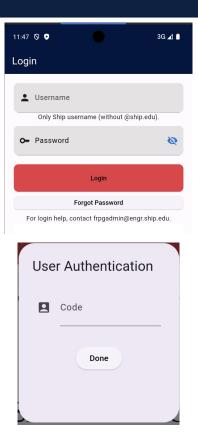
Iteration 5: Reset Password

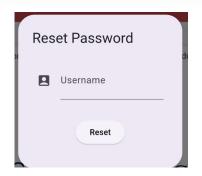
Added Password Reset Capability to User Facing App

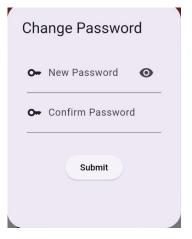


Password Reset

- Added Reset Password Button
- User inputs username and 6 digit code gets sent to database and email
- User then inputs code that was sent to them and that gets validated with code in database
- User can then input new password, which gets saved to database







Semester Reflection

- Customer seemed very satisfied with the product.
- As the semester progressed, each team member developed a "niche".
- Productivity increased and workflow became smoother.
- Good team compatibility.
- Game manager can be improved to provide full control/management over players in case of any issues.
- Add more functionality from the desktop game to the companion app.



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Data Analysis

