

Screen Sketches Assignment

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Educational Dungeon Crawler

Has been since named "QuizQuest"

Use cases

1. Student
2. Teacher
3. Admin
4. Moderator
5. TA

Student needs:

Compete in the games
View flashcards (but not edit)
View leaderboard
Have login

Teacher needs:

Have login
View student list
View student progress
View flashcards
Create flashcards
View scores

Admin:

Have access to all users
View all user info
Create official card sets
Deny users access
Have login
Set filters

Moderator:

View student participation
View student list
View usernames
Set filters
Have login

TA:

View student list
View student progress
View flashcards
Create flashcards
View scores

Non functional requirements:

Reliability: we want to make sure it is ready any time a teacher needs it, or consumers may be annoyed

Scalability: the more classrooms that use this product, the more students that will need to be signed up and using it will increase exponentially

Performance: as a combat game, performance and the ability to react are key. Students are also not guaranteed to have access to quality devices, so it needs to be easy to run

Usable on multiple platforms: we don't know what device students will have access too, so it needs to be able to run on multiple devices

Tables list and fields

Database

Flashcards(One to Many) relation

Answers

Name

Stats

Leaderboards(One to Many)relation

Class rank

Individual rank

Times played

Classes(One to Many)relation

Teachers

Students

Users(One to many)relation

Name

Password

ID

Class

School

Role

User File Format:

//parentheses are in actual documentation

Name: (Users name)

Username: (Username)

Password: (Password Hash)

School: (School name)

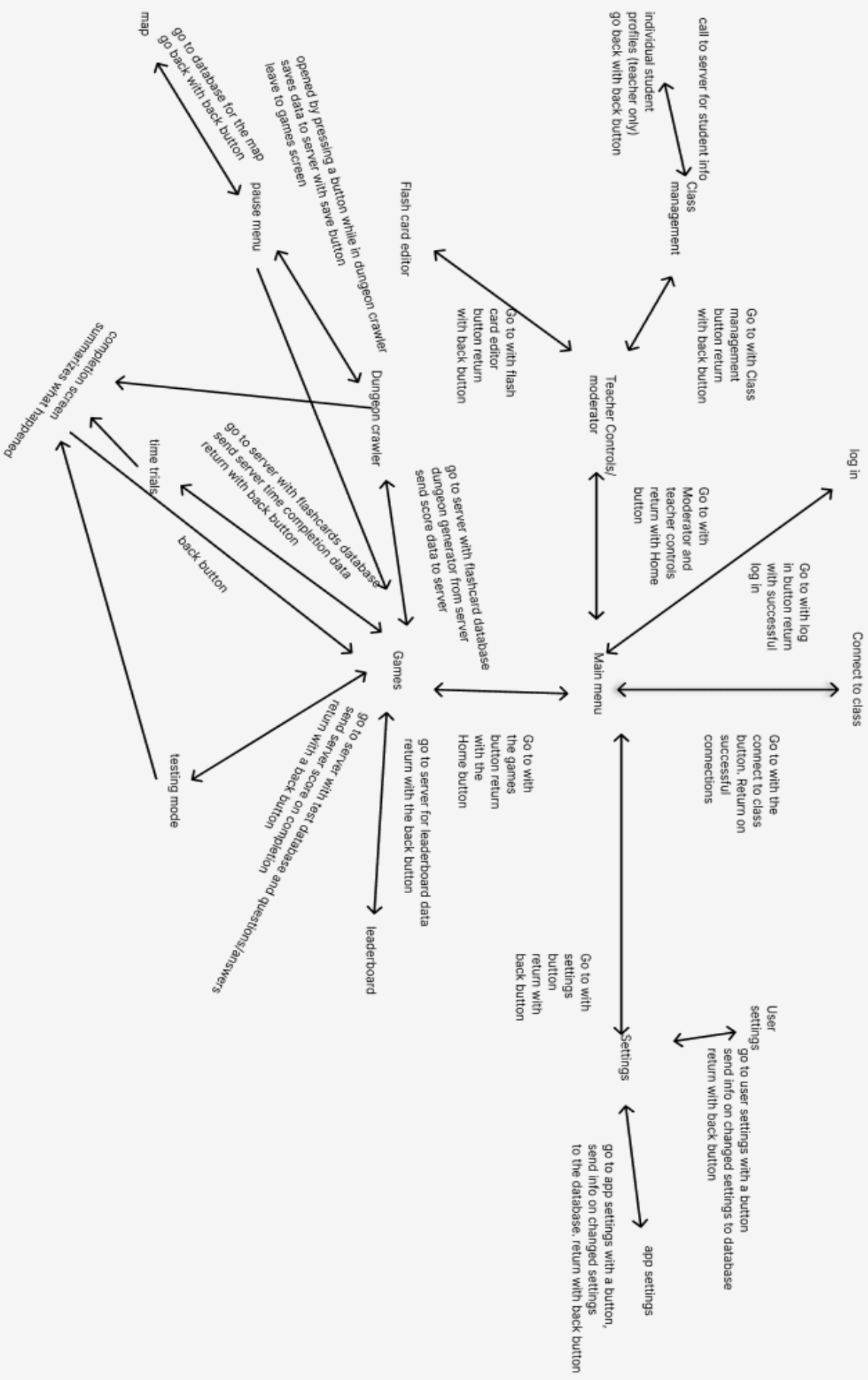
User ID: (User's ID)

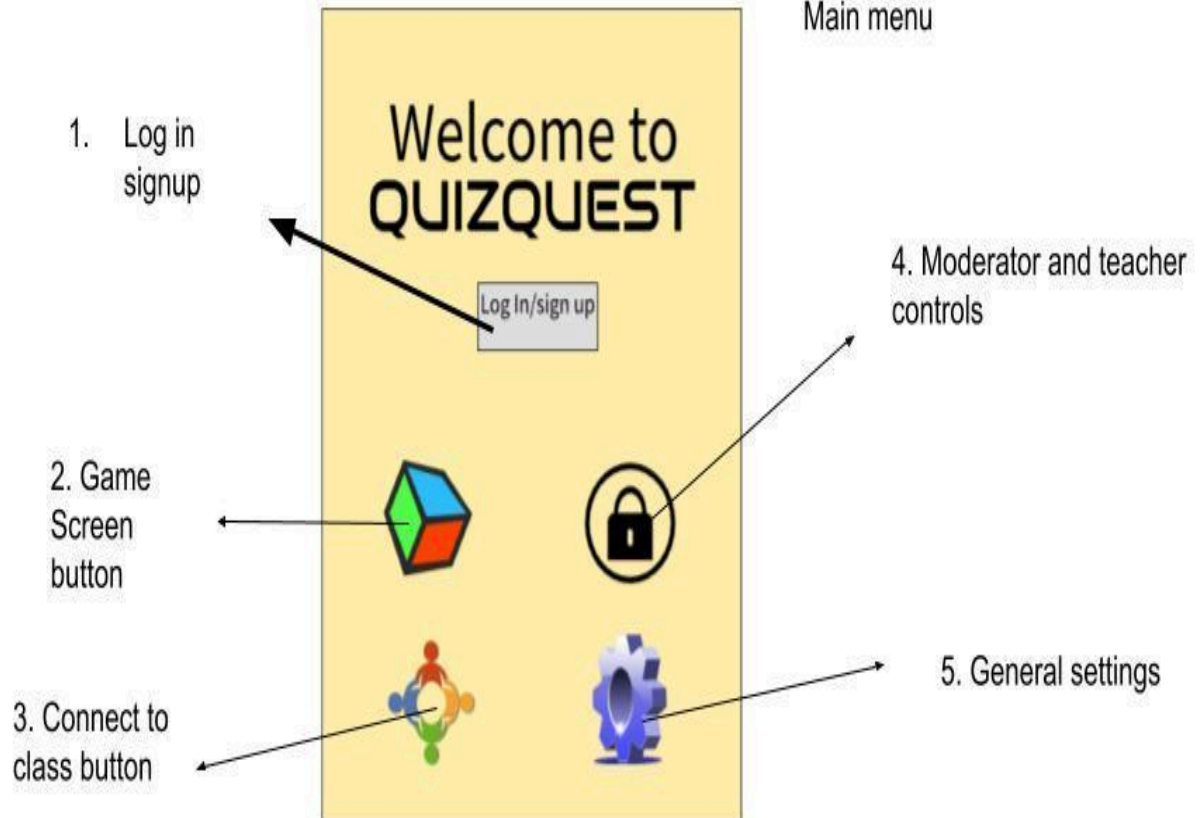
Teacher: (Y/N)

Admin: (Y/N)

TA: (Y/N)

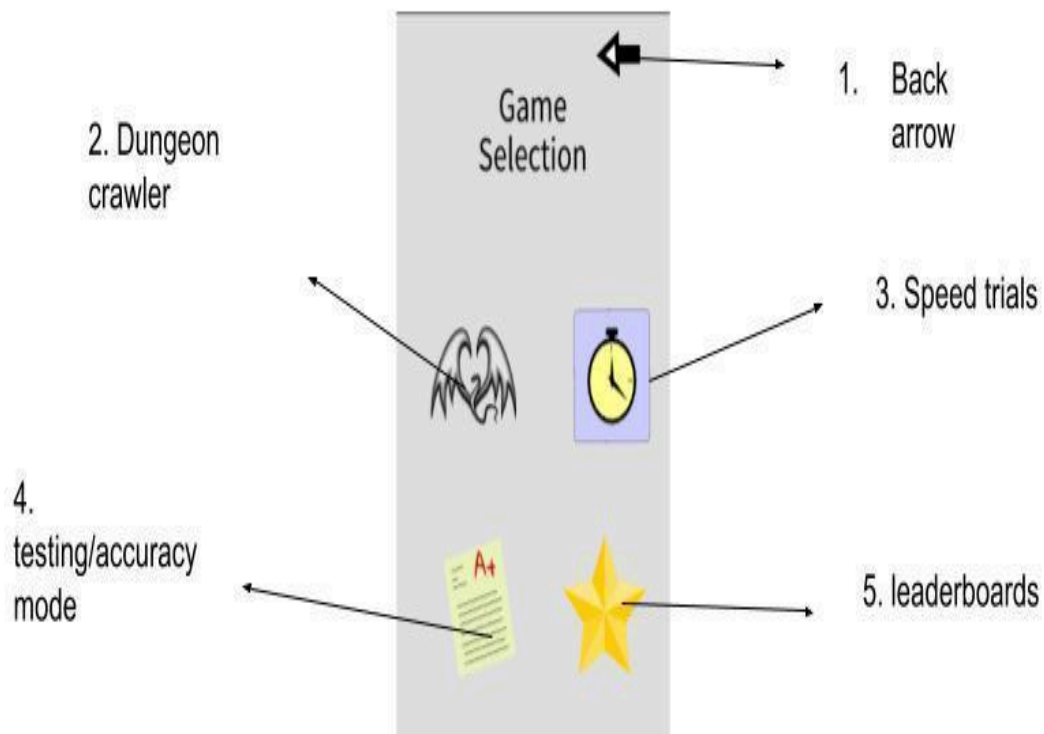
Enrolled Classes: (ClassID, ClassID) // separated by comma and space





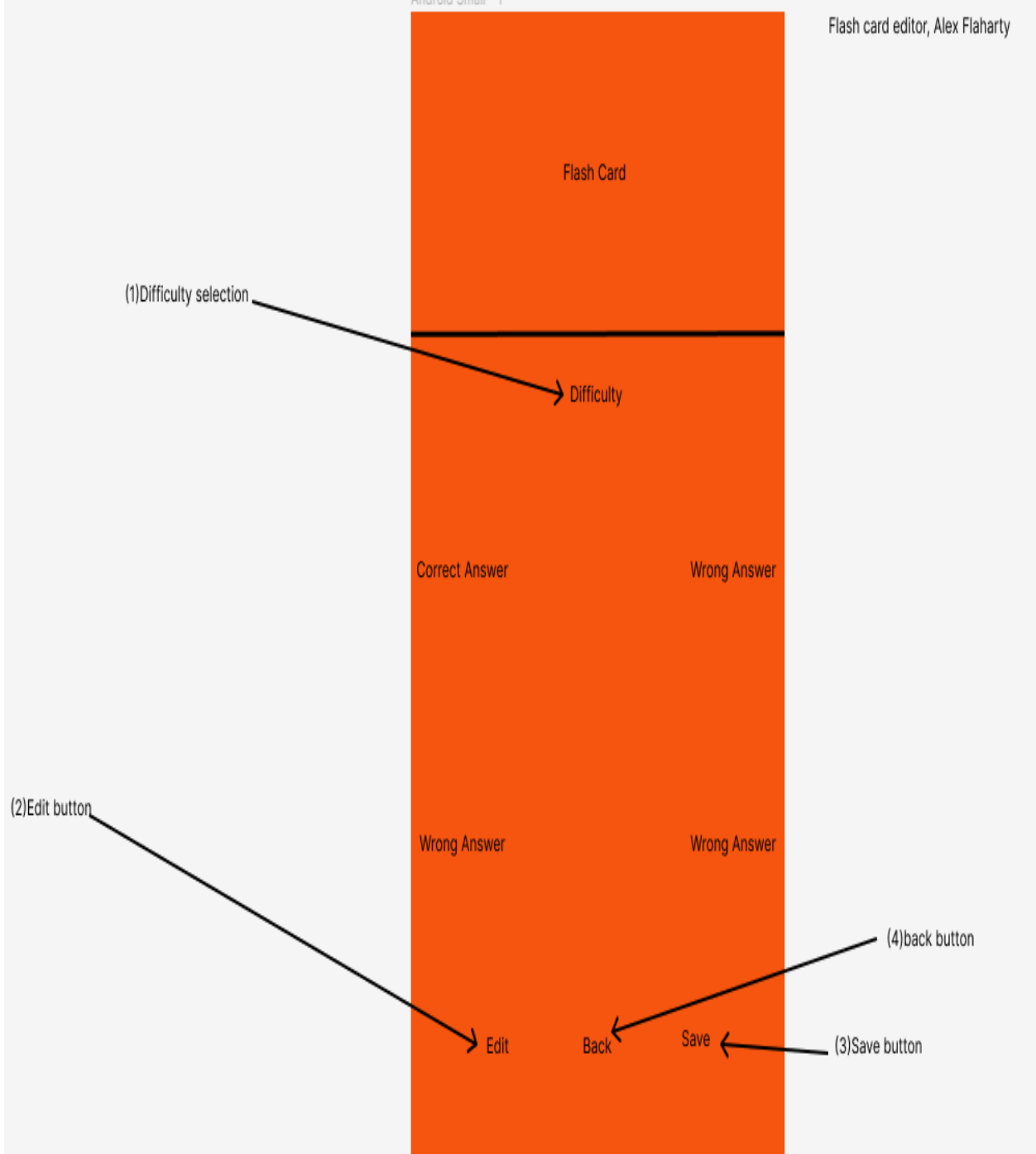
This is the main screen, the screen that opens up when you open up the QuizQuest app. On the main screen there are 5 button options that the user can click and navigate through the app.

(1) is the login or signup button, which will be required for basically any other buttons to become functional. (2) is the game screen button which will open up a new menu with multiple game options to choose from for users (mostly students). (3) is the connect to class button, in which a student will input a teacher's class code and then be able to see that teachers database of flashcards, such as math class with the math teacher and science flashcards with the physics teacher. (4) is the moderator and teacher controls, a menu only accessible with a teacher or moderator account. This is where the flashcards can be edited, the teacher can see the student participation, grade, leaderboard and so on. (5) this is general settings such as volume, username, password change, email change, about information section, etc.



The game selection screen of QuizQuest is vital because at its core this is a game for students to play and learn. This screen is a result of clicking the game selection button on the main menu screen and is only accessible to logged in users. The user may select from 3 gamemodes to enhance their learning, or they can check the leaderboards to see how they compare to other students in a competition.

- (1) This back arrow simply takes you back to the main menu screen. (2) dungeon crawler is the main gamemode of QuizQuest, where users answer questions and flashcards assigned by the teachers in order to progress through a dungeon style game and level up. (3) speed trials is a gamemode where students race through a certain number of flashcards, trying to get them correct as fast as they can. (4) testing/accuracy mode is a gamemode in which students go through a set number of flashcards in a test/exam like fashion, seeing their grade at the end and trying to get the highest score possible. Could be used as a real test taking area, or for student free practice (TBD). (5) Leaderboards section is a place for students to compare their scores to their peers on the different gamemodes. Can be turned off by instructors to hide students scores from other students, while teacher will always be able to see leaderboards.



The purpose of this screen is for the teachers or the students to be able to make the flash cards used in the games. 1 is a Drop down to select the different types of difficulty so you can make hard questions for bosses rare loot etc. 2 Allows you to change text and switch between question types ie Select all right, multiple choice. 3 Sends the new flash card to the database and resets the statistics 4 sends toy back to the main menu

(3)Flash card prize

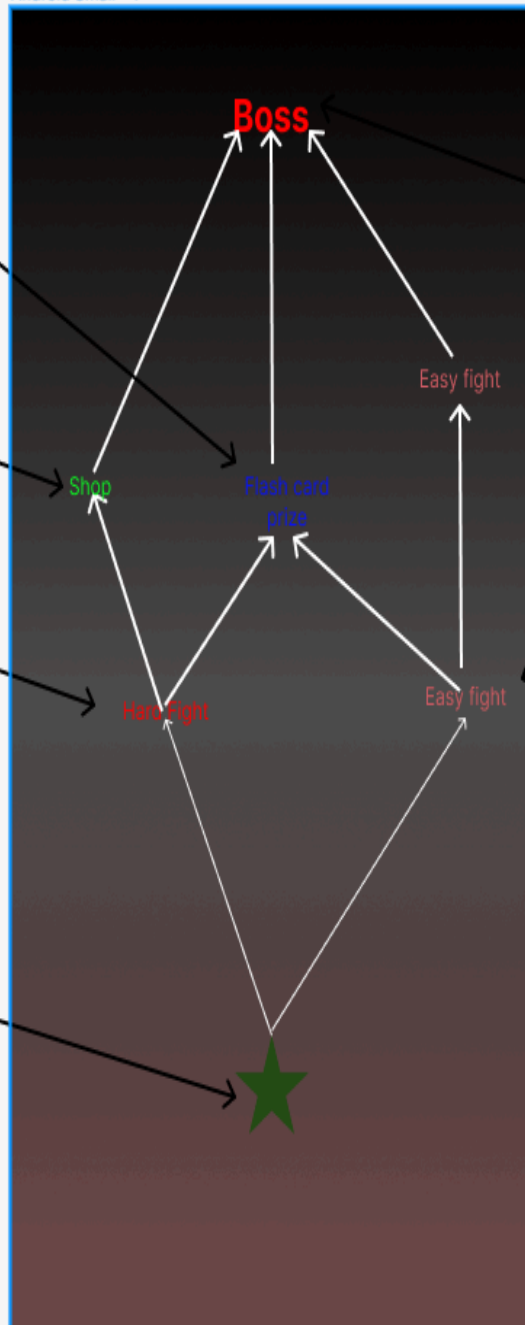
(1)Shop

(2)Fights

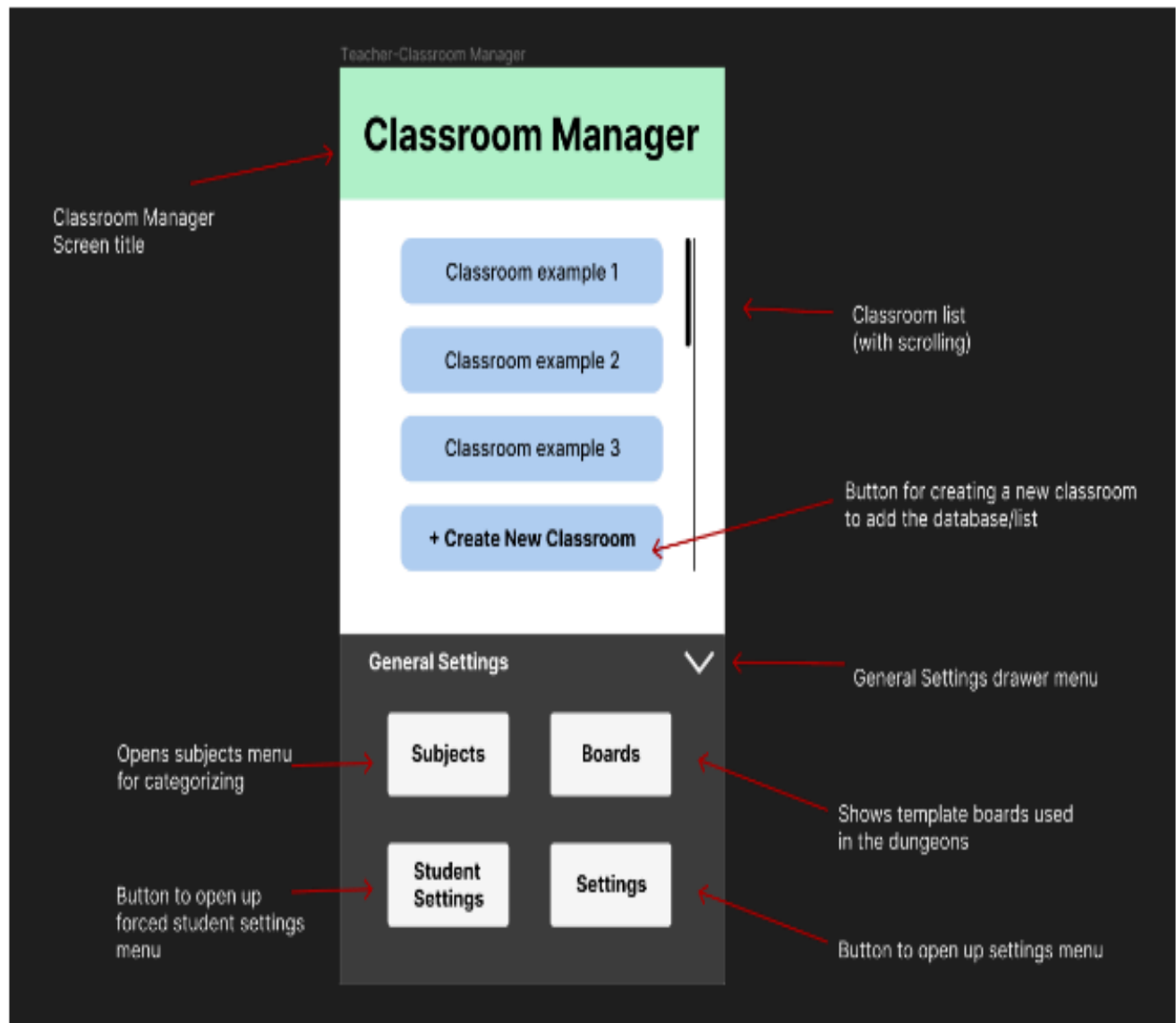
(5)Player

(4)Boss

(2)Fights

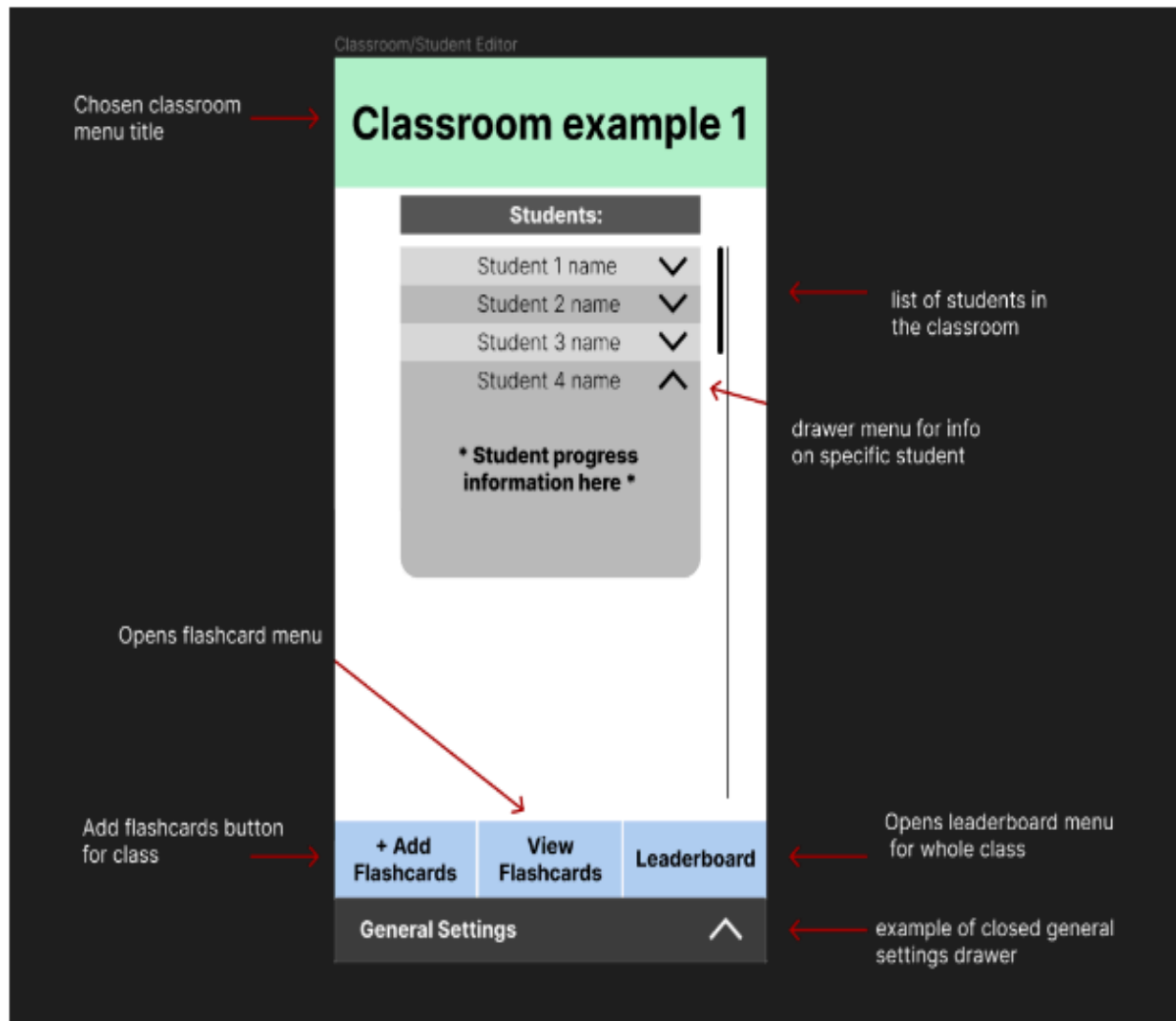


The purpose of this screen is to allow the player to chose between what events they will go to on the way to the boss
 (1) is a shop tile that will let you buy items and spend your money
 (2) Are fights Hard fights will have harder Enemies and or harder Flash cards Easier will have not so hard enemies and flash cards.
 (3) The flash card event will be answering some flash cards to win a prize or a curse
 (4) Boss/ final event will be the big challenge you are building up to.
 (5) currently shows where the player is



Menu only accessible to teachers managing classrooms. Essentially the main menu for use in a Teacher user context.

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Another teacher only menu resulting from clicking on a classroom on the previous screen to see more information about it.

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