UMD Study Application

Application Concept

The application will be a study app that allows teachers to streamline course materials and study resources directly to students. Students will have a dashboard of their different classes, which each are initially created and modified by the teachers but allow for students to add more resources and notes. Each class will contain subtopics with "flashcards" and games directed for studying using the class material provided, and will log the accuracy of the student for each subtopic. Each student will be able to add notes and external resources into each class, and have a todo list that can push notifications.

Key Functionality

Login/Registration: Users are able to make an account and login. Multiple Users will be supported. Once a user has an account, they can keep track of their classes .

Join a New Class - Add a new class to the user's list with fields for the class name, class code, etc.

View Study Features: User can view all the features of the app that aid with study in the class such as making a To Do List for all their classes, do a flashcard activity.

To Do List: User can add tasks to do for the class and cross them off

Flash Card Activity: User can participate in an activity that displays questions and the user can enter answers to move on further in the flashcard activity.

View Class Resources: Feature allows the user to look at links and various worksheets that the instructor posts.

Class Notes: Stores the notes for the class.

Architecture

LoginActivity:
- User logs in using username/pw

ClasslistActivity:
- Add button
    - Create class option: Popup displays allowing user to enter class information and create class (adds class to database)
    - Join class option: Popup displays allowing user to enter class code and "Join Class" (retrieves class content from database and adds class code to the user object in user database)
- User can select class to access class content

TODOActivity:
- Create item option: User creates new TODO item and puts in name, desc, deadline, etc.

- Option to place TODO item under class subheader (if not chosen automatically placed under "Miscellaneous" subheader
- User can mark TODO item as done
- TODO data is stored with user profile

ResourceActivity:
- Class admin can upload files and notes
  - Sub-topic is chosen
- Class student can download files and view notes

FlashcardActivity:
- Class admin can create flashcard sets
  - Sub-topic is chosen
- Class student can view and interact with flashcard sets

QuizActivity:
- Class admin can create quiz
  - Sub-topic is chosen
- Class student can take quiz

List of Work Items for each team member

Daniel Hill: LoginActivity, user database, class database,
Ed Tong: Resources, Notes, FlashCard Type Activity

James Donovan: ClasslistActivity, TODOActivity, QuizActivity

Storyboard