CS408: Project Charter

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1. Problem Statement

Looking for a nostalgic game to play during the breaks while not taking much time? Minesweeper perhaps would a good choice. However, we found out that a computer might be just a big block sometimes. Like, on the way back home, none of the users would prefer accessing the game by a bulky laptop or through a website--which are always the first income ideas when we think of Minesweeper. Moreover, visual fatigue caused by the never-changed black&white board is another stumbling block on the way to a further development and popularity for this game. Therefore, an easy and accessible Minesweeper App with a more user-friendly UI would be a valuable project that could bring back good child memories and give the users a relaxed and fun experience on the breaks of exhausting study or works.

2. Project Objectives

- 1. Able to provide users with multiple levels with different shapes (e.g. pentagon, hexagon, etc.) in the game.
- 2. Allow simple user account creation and login system.
- 3. Able to store all user account-related information on the backend server.
- 4. Create a points system to record time and score.
- 5. Develop a ranking table for the users to compete against the others.
- 6. Implement token system that will allow users to play certain amount of time.
- 7. Create a game currency for users to customize the board, unlock levels, and purchase the token.

3. Stakeholders

- Users: iPhone users who strives for a good, old-fashioned game on the phone
- Developers: Jingzhou Wang, Shirley Fu, Dan Luo, Wenya Zhu, Jay Cha
- Project Owners: Jingzhou Wang, Shirley Fu, Dan Luo, Wenya Zhu, Jay Cha
- Project Manager: Dan Luo
- Project Coordinator: Elvin Uthuppan

4. Deliverables

- An IOS application that allow users to play the minesweeper game:
 - Users can create an account. And by signing in to their personal account, they can retrieve the record and their customizations of the game.
 - Users are allowed to customize the game like levels of difficulty, shape of the board, style of the board, style of the flags and mines and so on.

• Platform:

o IOS using Swift/Xcode

o Database: Firebase

o GIT