X Marks the Spot

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Project Description

- X Marks The Spot is a geography learning game site, where users can participate in quiz game sessions by themselves or with others to learn new geography concepts.
  - Competitors: Kahoot, Quizlet
- Users will earn points in the game session based on accuracy, speed, and question difficulty, and the points will go towards their account total.
  - Users can earn certain tokens for every milestone they pass based on the total number of points they have accumulated, which they can view on their user dashboard
- True/False, Free Response, or MCQ Questions
- Leaderboard to compare overall performance

Our Progress

- **Completed Action Items:**
  - Finish Product Design Specifications report
  - Brush up on technologies needed for project
  - Set up Flask App and Created Basic Pages
- **Action Items that were Committed to Since Last Meetup:**
  - Finish Product Design Specifications report
  - Brush up on technologies needed for project
  - Set up Flask App and Created Basic Pages
- **Milestone Progress:**
  - Missing Milestones: none
  - Milestones Completed: M1 (Finalize Design + Features)
  - Milestone in Progress: M2 (Database Setup + User Auth)
  - Target Completion Date for Current Milestone: 2/29

Wireframes

Landing Page

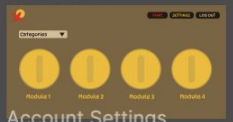
Login

Color Story

Sign Up

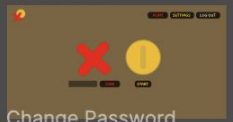
User Dashboard

Game View



Account Settings

Game View



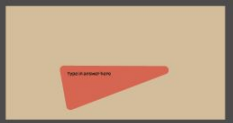
Change Password

Join Screen

Game View - MCQ

Game View - T/F

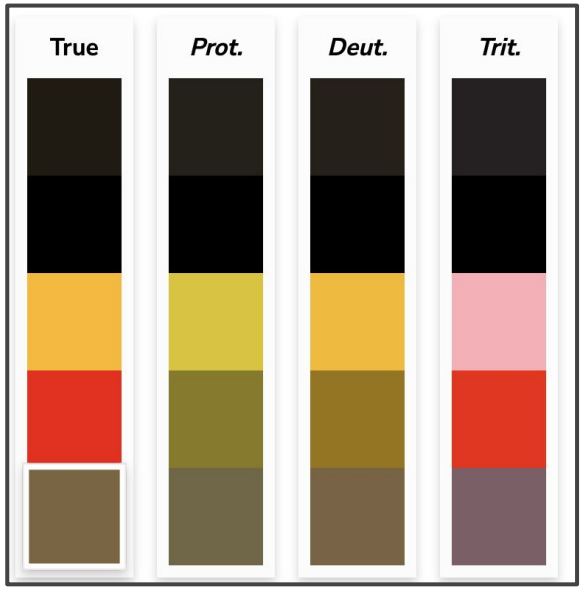
Game View - Writeln



Game Ending Screen

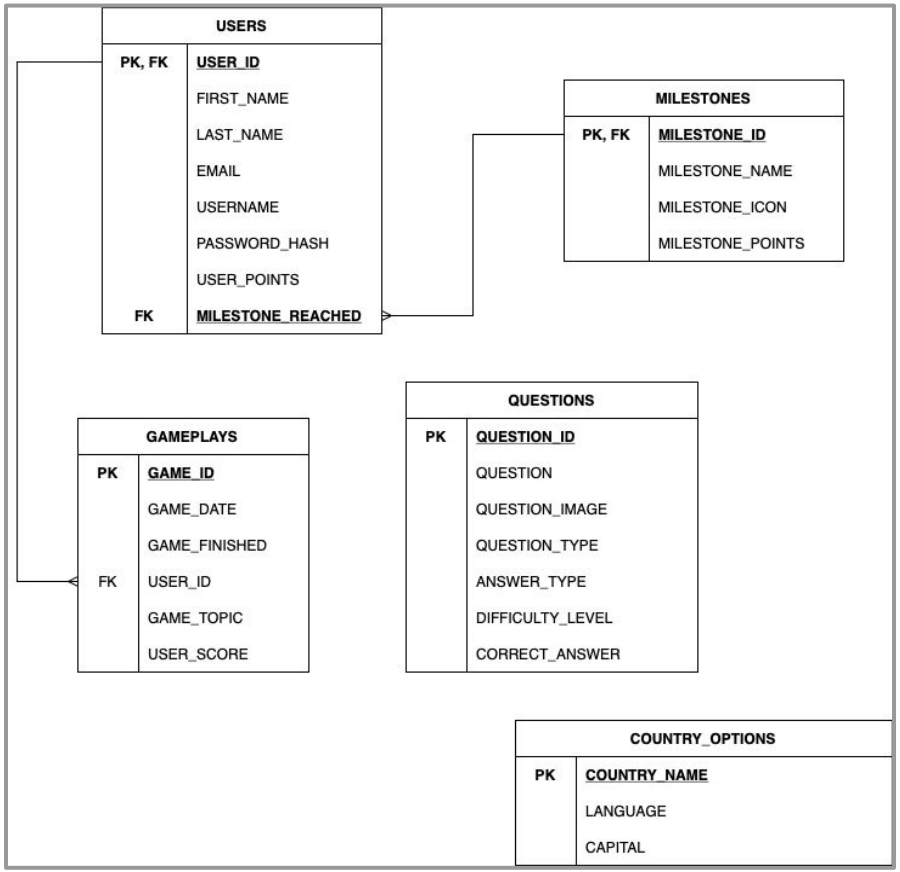
Wireframes - Accessibility

- **Prot. (Protanopia):** Unable to perceive any ‘red’ light
- **Deut. (Deuteranopia):** Unable to perceive any ‘green’ light
- **Trit. (Tritanopia):** Unable to perceive any ‘blue’ light
- Source



Database

- We will be using MySQL to implement the database
- The **USERS** table will store user information
- The **MILESTONES** table will have the milestones of the game
- The **GAMEPLAYS** table will have the game history of each quiz game, as well as the user's score
- The **QUESTIONS** table will store the questions of each quiz
- The **COUNTRY_OPTIONS** table will have the information about the answers



Product Issues - Void & Bugs

- **Void:**
  - ByteSquad Feedback:
    - Include multiple question types (MCQ, free response, T/F): We were already planning to include different types of questions
  - Professor Tsao Feedback:
    - Include user leaderboard to build competitiveness: We were already planning to include a leaderboard to allow users to see overall performance compared to others
- **Bugs:** We currently don't have any bugs (i.e., immediate feature concerns that need to be addressed)

Product Issues - Enhancements

Short-Term: N/A
Long-Term:

- **ByteSquad Feedback:**
  - Notification system to remind users to play quizzes or achieve more milestones
  - Notification system to notify make users about new features
  - Points able to unlock new game features, customizable profiles, and/or premium study content
  - Variety of collectibles for rewards (not just flags)
- **Professor Tsao Feedback:**
  - Ensure the game is accessible to users with different abilities, including those with visual, auditory, or cognitive impairments
    - E.g., text-to-speech options, high-contrast visuals, or alternative input methods
  - Reliance on quiz formats could be seen as outdated, failing to leverage innovative educational methodologies or technologies that engage modern learners