Professor Rogers

Ben Pink

Clayton Rath

David Vegter

Demetrios Green

CS 341

Elevator Pitch

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App Proposal 1 (**preferred**):

A geological cataloguing application for the Beth Johnson and the Geological collection at the University of Wisconsin Fox Cities Campus (Potential Project Ideas – 5) who are seeking a solution to better manage their collection of rocks, minerals, and fossils. Our application would allow for creating, updating, sorting, filtering of entries of geological samples given categorical data provided by the department. It would also allow uploading of sample photos associated with each entry. This application is unlike their current Google Sheets implementation which can only search single sample entries at time and currently does not provide sample images. Our geological cataloguing application would be subject driven and adaptable for future rocks, minerals and fossils with data being stored in a local or possibly centralized database that could be seeded with existing catalogue data.

Summary of features:

* Cataloguing system
  + Filterable
  + Sortable
  + Searchable
  + Manageable (create, update, remove)
  + Image support
* Possible Phase 2
  + Rights Management (Professor/Admin, Student)
  + Centralized database

App Proposal 2:

A game show application that uses the “Family Feud” gameplay model for Bryan Lilly (Potential Project Ideas – 10) who is seeking to a solution to have gameplay which is based on survey responses aggregated from Excel files into a master Excel file. Our game show application is unlike many other “Family Feud” style games in that the questions and categories can be customized, survey response data is aggregated and made available for review and are submitted for a gameplay session using defined timers, sounds and scoring and animations. The gameplay session has a team round and individual finalist round. The rounds consist of generalized “Family Feud” structure where points are earned by scoring or stealing. Pre-game admin operation includes manual survey categorization and point value distribution, setting timer values, team names as well as a finalist round name entry.

Summary of features:

* Survey Data Aggregation
  + Import survey response Microsoft Excel (Excel) files data
  + Output a “master” Excel file aggregated from survey response Excel files
  + Custom category and point distribution based on manual review process
  + Turn based “Family Feud” style game using top survey results generated after review including a team based and individual finalist component
  + Provide audio and visual cues for correct and incorrect answers
* Possible Phase 2
  + Store previous game survey response data with saved point allocation only requiring team name and finalist name input
  + Centralized database

Logistics:

We plan to use Microsoft Teams for meetings and collaboration throughout the project development process to accommodate student availability, screenshare/control, and schedule meetings. Initial discussions have also been made for project management with suggestions consisting of Atlassian’s Jira (potentially BitBucket or GitHub integration), Slack and Trello to implement SCRUM framework and Kanban board. GitHub will be used for source code version control. These methodologies are all pending professor advisement and review.