Senior Development Project 2024-25

Title: Board Game Tournament

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Brief description of problem to be addressed:
      Aardvark Games is marketing the launch of its newest board game by holding an international tournament with competing teams from colleges and universities around the world. This project will create a web-based solution for managing the promotion and execution of this tournament.

Primary goals of the project:
      This project will provide the platform for Aardvark Games to gain global attention for its new board game through the mechanism of an international tournament.
      The project's public facing web pages will promote the game and tournament.
      The solution will provide administrative functions to manage creating teams, scheduling of tournament events, and tracking of results.

Minimum Viable Product Functional Requirements:
Without this functionality, the system will be virtually useless.
      The MVP must:
- Provide attractive marketing for the game and the competition.
- Manage team participation with secure enrollment and team-sourced publicity pages. There will be one page for each team and one for each college.
- Process registration fees from credit cards.
- Manage tournament execution with posted schedules and competition stage results entered by authorized accounts, including a playoff bracket for the final four rounds.
- Maintain high availability and rapid response times.
- Be able to scale to handle high traffic volumes on tournament days.
- Include protection from hacker attacks. Our other sites are subject to near constant attacks, so proactive measures are critical.

Minimum Viable Product Business Requirements:
If these business rules (e.g., distinction of who can perform certain tasks) are not in place, the system will be virtually useless.
      The MVP must:
- Provide attractive marketing for the game and the competition. (Some graphic assets will be provided.)

- Have administrative functionality for creating and managing accounts that control access to different pages/functions.
- Have secure access to pages that gather input for functions like team sign-up, schedule posting, results posting. These account holders will be non-technical personnel who cannot edit HTML, so the solution must populate the appropriate page with data from an input form.
- The ability to view team pages must be searchable by team name and by college as well as by an alphabetically sorted list.
- There will also be a dedicated page for each college/university that has teams entered. This page would ideally accommodate a photo from the university, a brief blurb about the college, and a summary of each of the participating teams from that university.
- Provide reports.

Secondary Functional Requirements:
        The project would be more successful if:

These requirements are necessary to achieve the project goals, but could be postponed until the next release (e.g., generating a report that could also be done by hand).

- We would like to have a popular votes contest to increase engagement with students who are "fans" but not on the competitive teams.
- It would be ideal if registration payments could include Paypal, Venmo, Apple Pay, Google Pay, etc., in addition to credit cards.

Secondary Business Requirements:

These business requirements are necessary to achieve the project goals, but could be postponed until the next release (e.g., offering an interface in multiple languages).

- We would like to be able to track analytics, such as the volume of traffic to different pages.
- It would be better if language translation was offered on the public facing pages. (Admin pages may remain English only.)