CIS 726/526 Final Project

Architecture Writeup

Team HTTP 301

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The website from a user's point of view when a user logs in from the CAS server if this is the first time they've logged in a new user profile will be created for them. From then they are available to access the website and complete tasks as normal. The leaderboard controller works by loading the first 100 players and utilizes an infinite scrolling system to allow users to continuously scroll down until all users are loaded. The user may also search for a specific username in the leaderboard, causing users to be loaded until the search target is found. When the search target is found the screen will then scroll to the target. If the target doesn't exist in the database then they will instead receive a "User not found" message under the search box. A user can also view their own profile that will show their current points, any held points if they're frozen, and what tasks/milestones they have completed. A user can only view their own profile, while administrators can view any profile. Admin users also have the power to create and edit tasks and apply administrator actions upon users including point removal, addition, account freezing, and unfreezing. During task creation it can be labeled as a milestone, in which the admin may upload a new icon or reuse an existing icon already loaded onto the website for this milestone. Also during creation the admin can set a solution keyword, if a keyword is not entered then this task will not be available for keyword/solution completion. All tasks however can be completed via third party applications, via an encrypted string of the format X|Y where X is the token of the task which is assigned at creation and viewable by administrators in the task details page, and Y is the current ID of the player completing this task. Tasks can also be completed by QR code which admins may download from the task details as well. Admins may also visit an admin page, which all

admin actions are shown in the index in the form of a log, an admin may also begin an admin action by entering a username in the searchbox to target a user, but may also do this from the Manage User links that appear on user entries in the leaderboards.