

Release Summary

SlugQuest by SlugQuestTeam

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Key User Stories and Acceptance Criteria

1. As a user, I want to be able to securely login so that my information isn't leaked.
 - a. The user should be able to enter a valid username and password.
 - b. Upon successful login, the user should be directed to the dashboard.
 - c. An error message should be displayed if the user enters an invalid username or password.
2. As a user, I want to be able to keep track of and update all my tasks.
 - a. User should be able to add, edit and delete a task
 - b. User should be able to mark a task as completed or failed
 - c. User should be able to set Daily, weekly or monthly recurring tasks
3. As a busy college student, I want a way to track and organize my tasks so that I stay on top of my course schedule.
 - a. Users should be able to create different categories for their tasks and filter by these categories
 - b. Users can also view all their tasks in a calendar view to visualize their day and to-do list
4. As a social person, I want to be able to search for and add friends so I can work with them to be productive.
 - a. Users should be able to search and add friends by username or their unique "social code"
5. As a team member, I want to easily collaborate with my team on our project so that we can easily divide responsibilities and stay on track for deadlines.
 - a. Users should be able to create a team and add friends to the team
 - b. All members of a team can add/complete tasks in the shared task list
6. As a lazy person, I want a way to treat completing my tasks like a game, so that I stay motivated and also have fun.
 - a. User should receive points after completing each task, displayed as damage done to boss
 - b. Leaderboard should list all friends and rank them based on total points earned
7. As a social person, I want to be to collaborate with and play games with my friends so that I can stay in touch with them.

- a. Having leaderboard as metric to compare against friends via points
- b. Creating team tasks for collaborating with friends.

Known problems

Major bugs

1. If the user is not logged in, they can access the dashboard by directly going to its URL. They cannot perform any other user-authenticated action (backend server throws a 401 Unauthorized), but ideally we would want to stop them from accessing any internal URL if they are not logged in.
2. Edge case: Can create duplicate categories by naming the same as the default categories. There is also a bolding issue when clicking on such categories (filtering still works though)
3. We do not filter out failed tasks from the main task feed (only completed ones)
4. Very occasionally, the screen freezes when trying to add or update a task

Omissions

1. Did not get to personalization features.
2. Did not get to flesh out gamification (in the future, we would ideally like to add more quest-like features and challenges instead of a simple points system)
3. Edge case not handled: on server restart (server was shut down and started again after recurring tasks were already created), recurring tasks double populate
4. Did not add a "Forbidden" or equivalent page for unauthorized access (i.e trying to access the dashboard url without logging in still is possible, however no tasks can be added which is desired)

Design shortcuts

1. By design, when a user first registers into our application, the "BossID" is hardcoded to 1 to correspond to the first boss in the database.
 - a. Not an issue in practice since the BossTable is set to contain at least one boss with this id.
2. Instead of separating team-associated tasks, the "TeamID" is applied in all tasks. To identify individual tasks, a hardcoded TeamID of -1 is used (all TeamIDs are guaranteed to be positive by SQL's auto-incrementing).

- a. This decision was made to simplify the schema and have a common interface for task operations.
3. Recurring tasks are only populated until the end of the month. New recurring entries are populated at the beginning of each month for the entire month.

Product backlog

High Priority user stories:

- As a forgetful person, I want reminders and notifications about my upcoming tasks so I do not miss any deadlines.
- As a user, I want my todos and tasks all organized and integrated between sites such as google calendar so that all my to-dos are in one place and up-to-date.
- As a creative person, I want to be able to personalize my profile/avatar so that the platform is more visually appealing to me.
 - Want to have a profile page or equivalent to change avatars, nicknames, etc.
- As a social person, I want to be to collaborate with and play games with my friends so that I can stay in touch with them.
 - Want to expand on gamification options available for teams and friends on platform
- As a statistically driven person, I want to track my task history and productivity trends so that I have more insight into my workflow and know what I need to work on.

Modification to current functionality/Bug Fixes:

- Update recurrence option to allow for custom recurrences (not just daily, weekly, monthly) on the frontend.