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***Chore Quest***

Chore Quest is a household task management system with an additional gaming element. Users can choose from various household chores that need to be completed and are incentivized to complete tasks and earn points which will be used throughout the game. Each user will be required to login to the system to retain points under their username. Parental controls will ensure that the game remains family friendly. Points are attained by completing and recording daily, weekly or monthly household chores which will be assigned various point values. The points that a user earns can then be used within the game to do things such as slay dragons. Progress tracking will allow users to keep track of their point total and chore completion status.

**World Assumptions**

We assume that our users will be individuals or families with the following characteristics:

1. *Users have access to a computer that can run desktop applications*
2. *Users have an interest in fantasy and/or gaming*
3. *Users have household or cleaning tasks to accomplish*
4. *Users want a fun way to stay productive and keep track of their chores*

**User Requirements**

The following requirements describe how chore quest will meet the users needs:

1. *Accessibility*
   * *Users will be able to connect to the application on a desktop or laptop.*
2. *Authentication and security*
   * *Users will be able to create an account*
   * *Users will be able to log-in and log-out securely*
   * *The system will protect users personal data with authentication*
3. *Usability*
   * *The application will have a user-friendly interface for easy interaction*
   * *The application will have intuitive navigation*
   * *The application will display progress and goals in a clear, engaging way*
4. *Parental controls* 
   * *Parents can create profiles for children within their account*
   * *Parents can monitor and manage their children's chores*
5. *Cleaning goals settings*
   * *Users will be able to set and manage chores in three categories:*
     1. *Rituals - small daily chores that repeat every day*
     2. *Quests - weekly chores that can be spread out, doing one or two a day*
     3. *Bosses - Bigger chores or sessions that involve multiple tasks*
   * *Users can choose from premade chore templates or create their own*
   * *Users can customize the difficulty and time estimates to organize chores*
   * *Users will be able to create, edit, and delete chores in any category*
6. *Progress tracking*
   * *Users earn XP for completing chores in any category*
     1. *XP will vary based on the chores assigned difficulty and time estimate*
     2. *XP contributes to the users level in the app*
     3. *Users will be able to see their XP totals and level progress in their profile*
   * *The application will present progress in a visually engaging way for each chore category*
     1. *Rituals will have a streak counter to track consecutive daily completions*
     2. *Quests will have a progress meter to show completion of weekly tasks*
     3. *Bosses will have a health bar to show how much of the big chore session is left*
   * *Users can view their history and completion data for each category*
   * *Optional: users can unlock achievements or rewards for milestones*
7. *Optional: Social features*
   * *The application will have a friends system*
     1. *Users can compare their XP an levels with friends on a leaderboard*
     2. *Users can see their friends progress with Rituals, Quests, and Bosses*
     3. *Users can collaborate with with friends or family on Quests and Bosses*

**Specifications/Interface needs**

1. *User authentication/Data storage*
2. *Interface to have users interact with each other*
3. *Calendar*
4. *Tools for progress tracking*

***Program and Hardware***

1. *Desktop Computer*
2. *Java*
3. *Javafx/FXML with .css (front end)*
4. *Firebase Services(backend)*
   1. *Firestore NoSQL Database*
   2. *Firebase Authentication*

***Meeting Times***

Tuesdays 5pm - 6pm (online using zoom)

Wednesdays 1:30pm - 2:30pm (in person in the FSC library)

Sunday 2pm - 3pm (online using zoom)