TERRARIA EQUIPMENT DATABASE

IT&C 350 DATABASE DESIGN PROJECT WINTER 2024

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PROJECT OVERVIEW

PROJECT OBJECTIVE STATEMENT

Create an equipment preparation system for Terraria players that enables users to discover and create the best combination of equipment for their current in-game situation.

PROJECT STAKEHOLDERS

Who are the Stakeholders?

- Terraria players.
- Our creation team.

Who is going to be maintaining the site?

- We, the aforementioned four horsemen of this project, are the maintainers of the site.

A shortened interview with Mr. Sam, a Terraria expert.

- Q: Why do you like Terraria?
- A: Lots of bosses and lot of fun equipment. Kill things with yo-yo's
- Q: What is the hardest thing about Terraria?
- A: Acquiring stuff and getting ready for fights. Need to understand how to get ready.
- Q: What would you envision an app of this type could do for you?
- A: It could help me understand my options at where I am in the game.
- Q: Limitations of current systems?
- A: Terraria wiki exists, but you have to browse the wiki. Stats aren't shown in a concise form.
- Q: What features would you like to see?
- A: Understand boss difficulties, and crafting trees.

APP REQUIREMENTS

FUNCTIONAL REQUIREMENTS

Home Page Functionality

- Users can see a list of all items available for them to acquire and use under the condition that they have logged in and created a character profile.
- The list of available items changes based on the information provided by users about their Terraria Character.
- Users can view individual items with statistics about each item.
- Users can select an item to add to their list of equipped items.

Character Page Functionality

- Users can record what bosses their character has defeated so far.
- Users can record whether they have entered hard-mode or not.
- Users can record what biomes/regions they have discovered in their world so far.
- Users can see the current character statistics with the items they have equipped.

User page Functionality

- Users can create and select characters.
- Users can change their password.

NON-FUNCTIONAL REQUIREMENTS

Security

- Website protects against XSS.
- Website inputs will protect against SQL injections.
- Fail2ban (wish list)

Availability

- 95% uptime and availability.

Usability

- Mobile/Desktop application. (wish list)
- Dark mode.

DATABASE REQUIREMENTS

ER DIAGRAM IMAGES

[images]

SCHEMA DIAGRAM

[images]

BUSINESS RULES

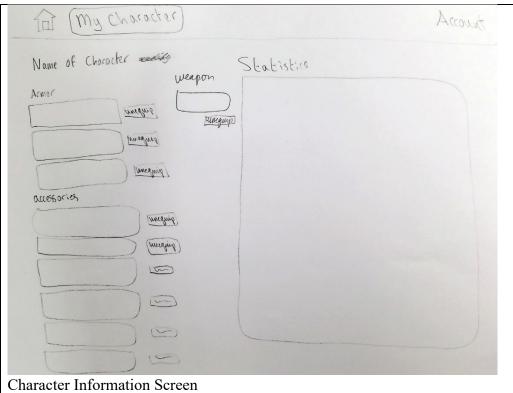
DATABASE DOCUMENTATION

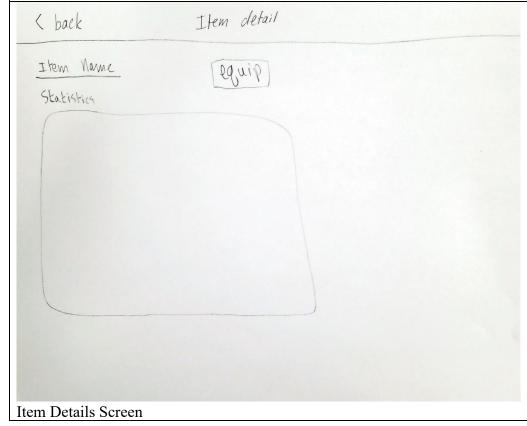
API DOCUMENTATION

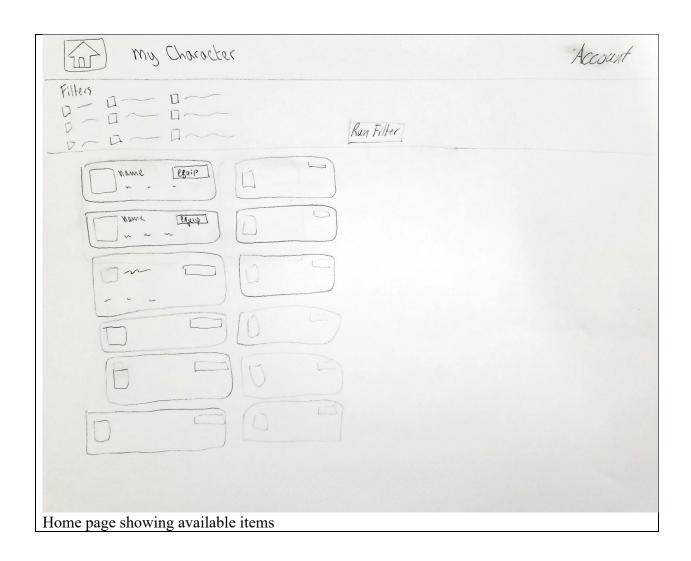
FRONT-END DOCUMENTATION

APPENDIX 1: LOW-FIDELITY PAPER PROTOTYPES

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APPENDIX 2: HIGH-FIDELITY PAPER PROTOTYPES

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