Design Document

Daniels, Lindhardt, Heaps, Christensen

Introduction:

      This program will implement a web-based system for creating and editing zombie maps, sending the zombie maps to the game server, creating and editing of users, and managing user permissions.

List of Requirements:

- User types
    - Player
        - Edit account
        - View list of maps to play
        - Select map and play
    - Designer
        - Create map with tiles
        - Edit account
        - View List of maps
        - Select map and edit
        - (may be a player)
    - Administrator
        - Can do everything a player and a Designer can do
        - Add/Remove users
        - View/Remove maps
- Map Designer
    - Maps built in square chunks and assembled together
    - Copy A map
    - Create and edit maps
    - Tiles/Event/Objects
    - Cloud layer/Tree layer/Ground layer
    - Keyboard shortcuts
    - Optional Grid
    - Copy/Paste sections of map
    - Right/Left click assignments
    - Undo/Redo (keyboard shortcuts?)
    - Auto-save (15 seconds no action)

- ○ Explicit save
- ● Server
    - ○ Save maps to database
    - ○ Save users to database
    - ○ Handle sessions
        - ■ 20 minute inactivity logout
    - ○ Upload maps to the game engine via the provided API
    - ○ Enforce permissions

List of Non-functional Requirements:
- ● Host
    - ○ Node.js server
    - ○ Couch DB
    - ○ Linux Ubuntu 13.0.4
- ● User
    - ○ Chrome 29.0 or greater
- ● Additional features
    - ○ Zoom map
    - ○ Bulk
        - ■ Edit map tiles
        - ■ Delete map tiles
    - ○ Random map Generator
    - ○ Map templates
    - ○ Avatars

Glossary:
- ● Avatars
    - ○ The picture or image a user chooses to represent themselves.
- ● Administrator
    - ○ User with the more privileges than the other users.
- ● Chrome
    - ○ An internet browser, the program that runs the web page.
- ● Database
    - ○ Think of it as a box, you put things in, and you can take them out. It holds and saves the information for the program.
- ● Designer
    - ○ A person that designs and creates maps.

- Glossary
  - A list of definitions.
- Gravatar
  - An avatar hosting company.
- Host
  - The group that will dedicate computational power to support the users game playing fun.
- Server
  - The computer program that handles user requests and interactions with the database.
- User
  - Someone who uses the program.