Magic Item Creator

Team 6 - Evan Rohde, Ian Burgess, Ian Kaiserman, Neriah Graham

The Vision

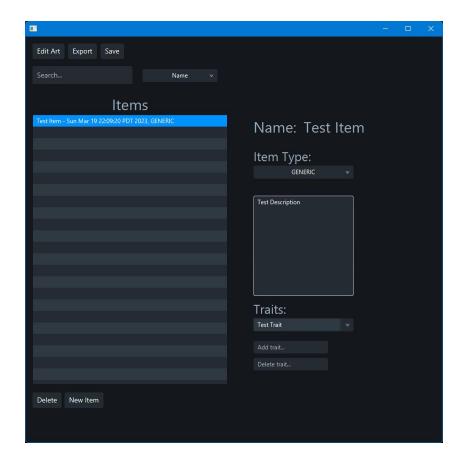
- TTRPG/Worldbuilding magic item creation tool for everyone
- Original vision pixel art
- Anyone can pick it up
- Flexible and broad features





The Goals

- List of created items
 - Saves to local machine
 - Loads from existing files
- Items have various properties
 - Name, description, etc.
 - Flexibility in how properties are used
- Navigation
 - Easy to pick up UI
 - Ability to search
 - Full control of user-created content
 - Verify saving before exiting
- Visual aids
 - Creation, editing, exporting of pixel art
 - PDF exporting



The Process

Three main phases of development

- Making it work Building the backend functionality
- Making it usable Creating the UI and linking the backend to it
- Making it work (again) Addressing various bugs, unintended interactions, and more

Making it work

Building the backend

Magic Item Object

- Stores name, description, art, traits for each individual item
- Can be individually manipulated

Magic Item Helper

- Manages collection of user's items (list, searching, sorting)
- Interfaces between UI and database
- Responsible for reading/writing local machine files into/from the program

PDF Export

 Leverages PDFBox for fetching data from item objects and rendering PDF

Making it work

Building the backend

Art Editing Window

- Tile System
- Placing and Deleting
- Key Handling

JavaFX

- Easy to learn application platform for UI development with Java
- Hooking up backend into eventual frontend with JavaFX

Making it usable

Creating the **UI**

PDF Export

Fairly straightforward, linking UI elements to backend functions

Art Editor Controls

- o Game Window
- Grid Manipulation
- Saving and Loading

UI

- Linking backend to frontend
- Creating an easy-to-use UI with user-friendly navigation
- CSS styling

Making it work (again)

Bug fixes, bug fixes, bug fixes

- Initial problems with Maven
- Lots of null checking in the UI itself
- Navigating around unexpected
 UI interactions
 - Many times fixing one UI issue led to another related issue
 - UI Listeners were really touchy about handling changes in lists and boxes

Demo Video!

Questions?