Game Save Manager

End of Term Status

CMPS 4910, Fall 2017-Spring 2018
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dbtools.py Updates

- Contains class "DatabaseFiles"
 - Used to create and manipulate XML database files
 - Information file created by creating database with single game entry
 - Can add file to custom game database
 - Sorts entries so that they are in order in the database file
 - Prettyfies the database file with indentation so it's easy to read

formatools.py Updates

- "Reverse" save file path formatting
 - Takes a real file path and replaces some information with placeholders
 - o Ex. /home/npolach -> /home/{user}
 - This is used when adding custom game entries so users don't have to add the placeholders themselves
 - Finding the information to replace is done using regular expresions.
 - Example RE for user's home directory:
 - "^/home/(\S*?)/.*"

backuptools.py

- Contains backup function
 - Takes a single game or list of games to backup
 - Retrieves and formats list of save file paths for given game
 - Retrieves and adds save files to tar backup file
 - Generates and adds information file to tar backup file
 - Uses game name and timestamp to name file and places backup into "Game Saves" directory

Completed This Semester

Database

- Load XML database into Python dictionary (virtual database) for use in program
- Create database cache for faster loading at startup
- Add game to virtual database when custom game entry added
- Simple functions for retrieving information from virtual database

XML

- Create information file with single game entry
- Create custom game database with many entries
 - Add game to XML database
 - Sort XML file by game name
 - Prettify output file (indentation)

Completed This Semester Cont.

- Game Managing
 - Scan to see if save file location exists on computer
 - If so, add the game to the managing list
- Save Formatting
 - Replace placeholders ({user}) with useful information
 - Replace certain information with placeholders
 - Used when adding custom game entry
- Backup
 - Use game's save location list to gather files to backup
 - Compress those files along with information file into single tar.gz backup file

Completed This Semester Cont.

- Graphical Interface
 - Displays managing list and information for selected game
 - Buttons for backing up games
 - Additional window to show backup progress
 - Displays list of games in custom game database
 - Button and additional window for adding custom game entry
 - Can check box to display all games including those in official database
 - Will be used for selecting game entries to edit
 - Button for scanning for games
 - Additional window to show scanning progress

To Be Completed Next Semester

- XML
 - Editing game entries
 - Removing game entries
- Restoring backup files
- Settings
 - Custom backup directory
 - Custom backup name format
 - o Etc.
- Adding restore and settings to graphical interface

Possibly Completed Next Semester

- Cross platform
 - Backup game on one OS and restore on another OS
- Task creation/management
 - Schedule for games to be backed up automatically at specified times
 - Schedule repeated tasks (i.e. daily game backups)
- Website
 - Displays game entries on webpage
 - Members can add game entries that will be added to the official database
- Backup to Dropbox