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Title of Project: roBOTically efficient

GitHub

D.6 Release 2 – Due: 2018-04-27

CS386 – Software Engineering – Spring 2018

Dr. Marco Gerosa

1. Introduction

roBOTically efficient, an Old School Runescape bot which aims to provide an easy, off-hands experience for progressing through the tedious, but essential portions of the game. With our software, users can quickly utilize the bot to play the game without directly being involved. This is useful for players that do not have a lot of time to play certain aspects of the game including leveling skills.

This current iteration of the bot includes a duck killing bot and an enhanced woodcutting bot. We decided to drift away from the fishing bot because we wanted to prove that we could create a bot for combat, though the fishing bot was in the works it will not be included in this deliverable. It is a simple GUI which allows a user to select what bot they want to run when standing in the correct location and the script does all of the hard work for them. We didn't implement everything we laid out from our previous deliverable requirements because we realized some of them weren't required or could put the user at risk.

GitHub: https://github.com/J1411/NAU_CS386

Trello: https://trello.com/b/4hvAsbj3/naucs386opdingo

2. Implemented Requirements

All source code is up on GitHub and was submitted by means of pushing and pulling the development branch and merging it to master when necessary.

Requirements implemented (Functional & Non-functional) :

- Create a GUI for the application
  - **Trello**: https://trello.com/c/UbTWGpZF/3-create-simple-gui
  - **Who implemented**: Tanner and Joseph
  - **GitHub link**: https://github.com/J1411/NAU_CS386/blob/master/roBOTically%20efficient.au3
  - **Who reviewed**: Tanner Manually reviewed
  - **GitHub link for automated tests**: https://github.com/J1411/NAU_CS386/blob/master/unitTests.au3
  - **Time Stamp for proof of req working**: https://youtu.be/estLUNZhnO8?t=2m27s

- Create a bot for woodcutting
  - **Trello**: https://trello.com/c/sNY6TCAL/13-woodcutting-bot
  - **Who implemented**: Tanner and Joseph
  - **GitHub link**: https://github.com/J1411/NAU_CS386/blob/master/roBOTically%20efficient.au3
  - **Who reviewed**: Tanner Manually reviewed
  - **GitHub link for automated tests**: https://github.com/J1411/NAU_CS386/blob/master/unitTests.au3
  - **Time Stamp for proof of req working**: https://youtu.be/estLUNZhnO8?t=4m2s

- Create a bot for combat
  - **Trello**: https://trello.com/c/0ch4ct6F/11-create-combat-bot
  - **Who implemented**: Tanner and Joseph
  - **GitHub link**: https://github.com/J1411/NAU_CS386/blob/master/roBOTically%20efficient.au3
  - **Who reviewed**: Tanner Manually reviewed
  - **GitHub link for automated tests**: https://github.com/J1411/NAU_CS386/blob/master/unitTests.au3
  - **Time Stamp for proof of req working**: https://youtu.be/estLUNZhnO8?t=6m50s

- Create a bot that is human like
  - **Trello**: https://trello.com/c/kbkkfMvn/23-create-bots-which-are-human-like
  - **Who implemented**: Tyler
  - **GitHub link**: https://github.com/J1411/NAU_CS386/blob/master/roBOTically%20efficient.au3
  - **Who reviewed**: Tanner Manually reviewed
  - **GitHub link for automated tests**: https://github.com/J1411/NAU_CS386/blob/master/unitTests.au3
  - **Time Stamp for proof of req working**: https://youtu.be/estLUNZhnO8

- Simple to use
  - **Trello**: https://trello.com/c/dHuHwO0y/24-make-it-simple-to-use-and-understand
  - **Who implemented**: Chase
  - **GitHub link**: https://github.com/J1411/NAU_CS386/blob/master/roBOTically%20efficient.au3
  - **Who reviewed**: Tanner Manually reviewed
  - **GitHub link for automated tests**: https://github.com/J1411/NAU_CS386/blob/master/unitTests.au3
  - **Time Stamp for proof of req working**: https://www.youtube.com/watch?v=estLUNZhnO8

- Able to resize the screen
  - **Trello**: https://trello.com/c/cwwwcUtd/20-resize-the-screen
  - **Who implemented**: Julian
  - **GitHub link**: https://github.com/J1411/NAU_CS386/blob/master/roBOTically%20efficient.au3
  - **Who reviewed**: Tanner Manually reviewed
  - **GitHub link for automated tests**: https://github.com/J1411/NAU_CS386/blob/master/unitTests.au3
  - **Time Stamp for proof of req working**: https://youtu.be/estLUNZhnO8?t=4m5s

- Able to click north on compass
  - **Trello**: https://trello.com/c/DrQQxoSy/21-set-orientation-always
  - **Who implemented**: Tanner and Tyler
  - **GitHub link**: https://github.com/J1411/NAU_CS386/blob/master/roBOTically%20efficient.au3
  - **Who reviewed**: Tanner Manually reviewed
  - **GitHub link for automated tests**: https://github.com/J1411/NAU_CS386/blob/master/unitTests.au3
  - **Time Stamp for proof of req working**: https://youtu.be/estLUNZhnO8?t=4m5s

- Create bots which are reliable
  - **Trello**: https://trello.com/c/wkq5sHMh/25-verify-that-the-bots-are-reliable
  - **Who implemented**: The entire team worked on this one
  - **GitHub link**: https://github.com/J1411/NAU_CS386/blob/master/roBOTically%20efficient.au3
  - **Who reviewed**: Tanner Manually reviewed
  - **GitHub link for automated tests**: https://github.com/J1411/NAU_CS386/blob/master/unitTests.au3
  - **Time Stamp for proof of req working**: https://www.youtube.com/watch?v=estLUNZhnO8

- Woodcutting bot that drops 2 rows of items
  - **Trello**: https://trello.com/c/XNj6HtW2/22-drop-2-rows-of-items
  - **Who implemented**: Tanner and Julian
  - **GitHub link**: https://github.com/J1411/NAU_CS386/blob/master/roBOTically%20efficient.au3
  - **Who reviewed**: Tanner Manually reviewed
  - **GitHub link for automated tests**: https://github.com/J1411/NAU_CS386/blob/master/unitTests.au3
  - **Time Stamp for proof of req working**: https://youtu.be/estLUNZhnO8?t=4m25s

- Allow the user to exit via the ESC key
  - **Trello**: https://trello.com/c/EzqhTnFh/14-exit-capability
  - **Who implemented**: Joseph and Tyler
  - **GitHub link**: https://github.com/J1411/NAU_CS386/blob/master/roBOTically%20efficient.au3
  - **Who reviewed**: Tanner Manually reviewed
  - **GitHub link for automated tests**: https://github.com/J1411/NAU_CS386/blob/master/unitTests.au3
  - **Time Stamp for proof of req working**: https://youtu.be/estLUNZhnO8?t=5m19s

3. Demo

Official YouTube link: https://www.youtube.com/watch?v=estLUNZhnO8

Backup Google Drive link: https://drive.google.com/file/d/1_pkWKoHLupPvrohGa4ZLLZQ7XFsTrjn1/view?usp=sharing

4. Group Participation

Tanner Massahos – Created the document, wrote the intro, wrote a few of the requirements and filled out what was required. Also did a large portion of the programming required for this release. (25%)

Joseph Remy – Assisted in the creation of the document and the video, made sure everything about the document was clean and ready to be turned in. (18.77%)

Julian Bell – Wrote a majority of the required information for each implemented requirement, also assisted in programming some of the requirements. (18.765%)

Tyler Boice – Made sure the document was well formatted and that everyone did their respected work. (18.75%)

Chase Mosteller – Updated the Trello, assisted in ideas for the video and for new bots on this release. (18.715%)