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CMSC 335

**Project 3 Documentation**

**UML Diagram**

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**User Guide**

**Step 1:** create a new java project (“file…/new…/java project…”), once created right clock on the project folder and select “import…/general…/file system…”

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**Step 2:** use the “browse…” option to select the folder you would like to import the needed source code from. Select the source files you want to import, then in the “Into folder” section, use the “browse…” option to select the “src” folder to import your files into. Select “finish” to complete the import process.

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**Step 3:** Once the steps above are complete, when the program is ran the traffic test GUI box should appear and the program could be ran from there.

**What I learned**

This project was very difficult to work through and took a lot of trial and error to get the program working how I needed it to. This project taught me a lot about working with threads and how to better implement multiple threads interacting with each other. This project also taught me a lot more about creating GUI’s and getting all the necessary parts to work with each other, I feel that after I had my traffic lights and car classes finished the hardest part was getting my GUI to function properly.

**Test Plan**

|  |  |  |  |
| --- | --- | --- | --- |
| test # | description | buttons pressed | pass/fail |
| 1 | letting the program run a full cycle | start  stop | pass |
| 2 | letting the program run and using the pause and stop buttons | start  pause  resume  stop | pass |

**Test Run**

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Test 1 Gif

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Test 2 Gif