

CS 3330 Final Project Documentation

UI Development: This project was created using JavaFX. There are two .fxml documents in the project including StartWindow.fxml and TrackingWindow.fxml

Architecture:	Models	{Switcher.java, Requests.java}
	Views	{StartWindow.fxml, TrackingWindow.fxml}
	Controllers	{StartWindowController.java, TrackingWindowController.java}
	Main	{HickmanjvMaintenanceTracker.java}

Required Elements

1. Object Oriented Elements that you write the code for:
 - a. Classes
Requests.java, Switcher.java, etc;
 - b. Subclasses
**StartWindowController.java, and
TrackingWindowController.java**
Both of these classes are subclasses of Switcher.java
 - c. At least one Abstract Class
Switcher.java is abstract
 - d. At least one Interface
**Initializable and Serializable are interfaces for
StartWindowController.java and
TrackingWindowController.java**
2. Code elements that you utilize:
 - a. One or more collection classes
**I utilize ArrayList to store the Request Objects that are
created. Line 40 and 136 of
TrackingWindowController.java**
 - b. Exception Handling
**Exception Handling with FileIO because the program is
serialized. Lines 90-101, 112-123, 138-149, 171-189 in the
TrackingWindowController.java**
3. The application must have a clearly defined model
**The Models are Switcher.java which holds the data for
transitioning scenes, and Requests.java which holds the data
of the Request Objects that are to be created**
4. The UI must have multiple scenes and one of the scenes will have the
contents changed based on application state.

There are 2 scenes, a Start page and a Tracking page. The Tracking page is changed based on the requests entered and the ones saved prior to re-opening the program.

5. There must be a way to access "About" Information
On the Start page there is an About button that will provide application and author information to the user
6. The application must save and load data
The application saves each time a new request is entered into the tracking table, a request removed from the tracking table, and upon opening the program after leaving data, the program will open and pull the data from prior uses. These solutions are found in the initialize, addNewRequest, deleteRow, and deleteAllRequests methods of TrackingWindowController.java