- **Name:** Alex Sheehan
- **Project:** Data Analysis Tools
- **Requirements:**

  UR-04 - As a user, I need to store data from files into a database, so that I can access them and combine them

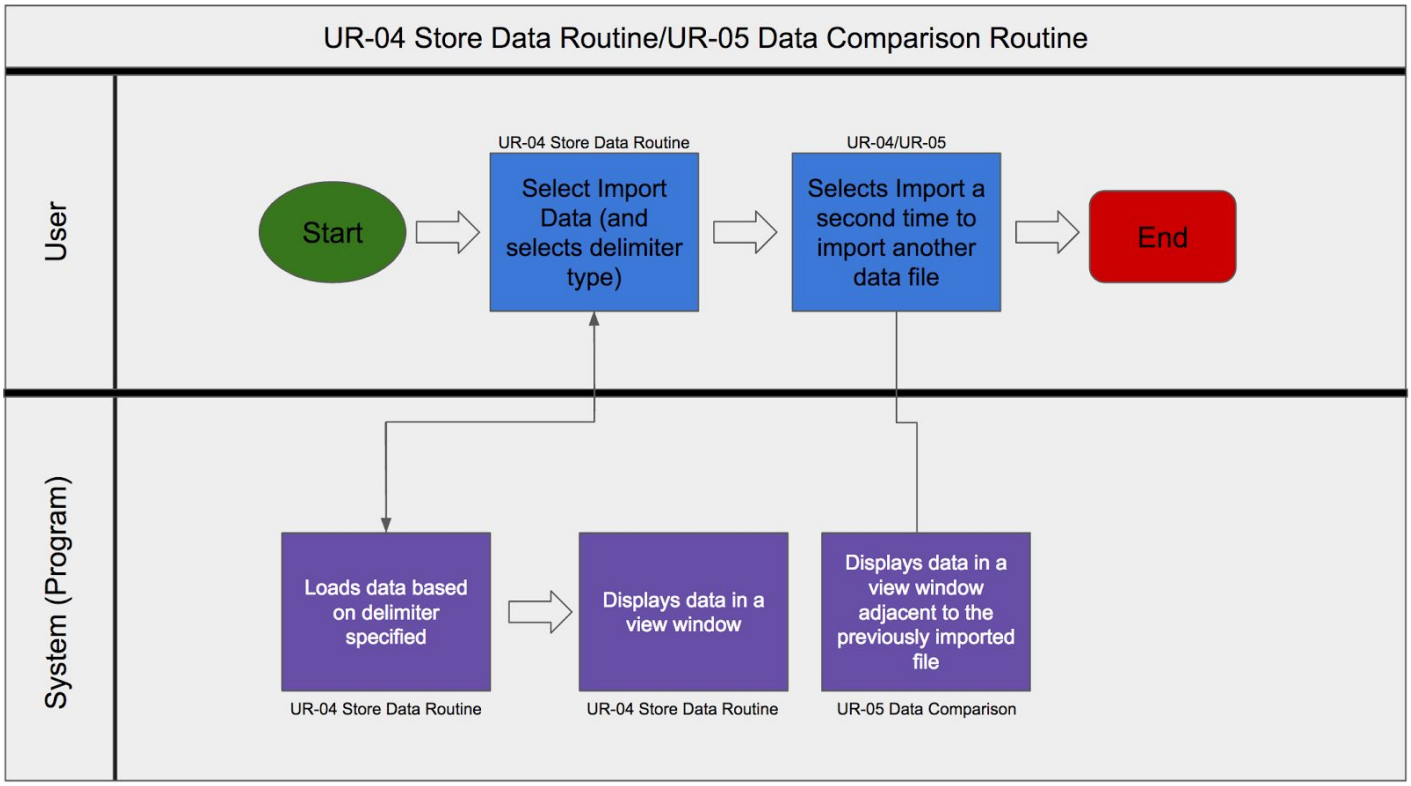
  UR-05 - As a user, I need to compare data from between two files

- **Use Case Documents:**

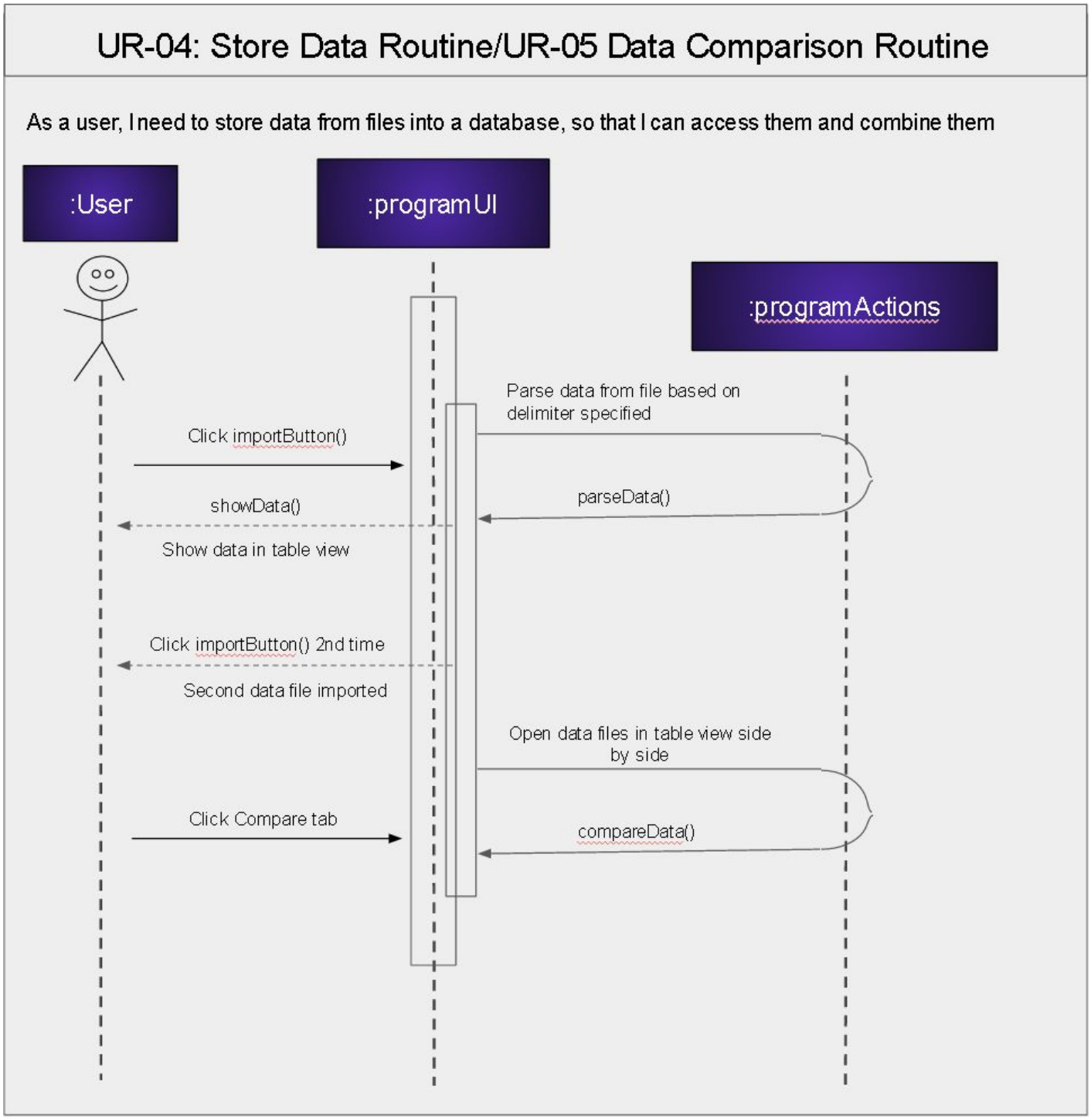
<table>
<tr><td>Use Case ID</td><td>UR-04</td></tr>
<tr><td>Use Case Name</td><td>Store Data Routine</td></tr>
<tr><td>Actors</td><td>User</td></tr>
<tr><td>Pre-Condition</td><td>The user has data they would like to store in a database. A database memory allocation location would be defined prior, a clear UI would need to exist as a way for the user to import their data.</td></tr>
<tr><td>Post-Condition</td><td>The user has the data correctly imported to the database to be able to compare with other data files or perform high level analysis on.</td></tr>
<tr><td>Flow of Events</td><td>
<table>
<tr><th></th><th>Actor Action</th><th>System Response</th></tr>
<tr><td>1</td><td>User presses import data button</td><td>Brings up import data UI</td></tr>
<tr><td>2</td><td>User selects import parameters (some optional), such as type of data file (i.e. .csv)</td><td>Program imports data into the database</td></tr>
<tr><td>3</td><td>User views information about the newly imported data or performs analysis on the data</td><td></td></tr>
</table>
</td></tr>
<tr><td>Variations</td><td>2 - Database storage could be full, would display error message</td></tr>
</table>

<table>
<tr><td>Use Case ID</td><td>UR-05</td></tr>
<tr><td>Use Case Name</td><td>Data Comparison Routine</td></tr>
<tr><td>Actors</td><td>User</td></tr>
<tr><td>Pre-Condition</td><td>The user has two different data files they would like to compare</td></tr>
<tr><td>Post-Condition</td><td>The user is given information about the two data files</td></tr>
<tr><td>Flow of Events</td><td>
<table>
<tr><th></th><th>Actor Action</th><th>System Response</th></tr>
<tr><td>1</td><td>User presses compare data button</td><td>Shows table view of the two data files</td></tr>
<tr><td>2</td><td>Views the data side-by-side, option to perform analysis on the data or operations such as combine tables.</td><td>Showing data comparison with options for operations or analysis</td></tr>
</table>
</td></tr>
<tr><td>Variations</td><td>1 - One or more of the data files being compared is unreadable, system would display error message</td></tr>
</table>

- **Activity Diagram:**



● **User Interactions:**



● Label each sequence diagram with the Requirement ID #, Use Case ID #, and Use Case short description.

- Make sure all classes are also represented in your group's class diagram.
- Make sure all messages (method calls) are also represented in your group's class diagram.
- Make sure you show the actor and the action that triggers the start of this use case!
- Make sure the steps in your use case document match to your activity diagram as well as your sequence diagram.

Notes

* You must use the same use case(s) throughout this individual portion for Part 2.

* You must use swim lanes to get any points on the Activity diagram.