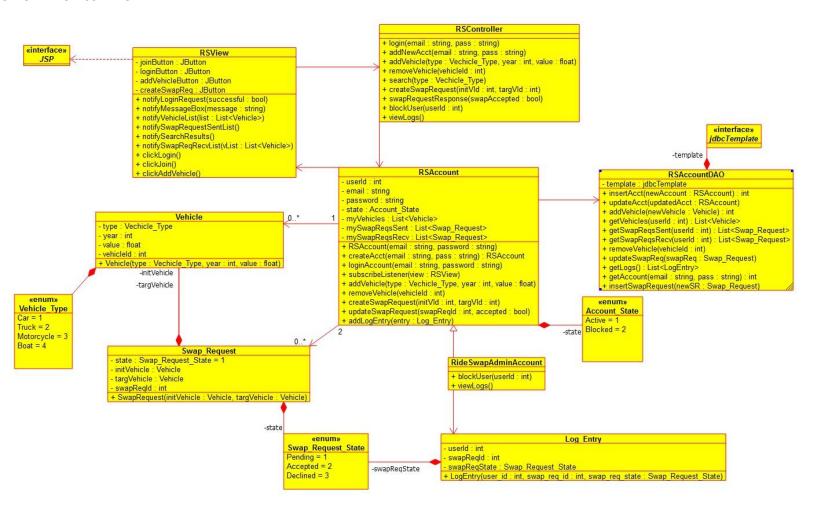
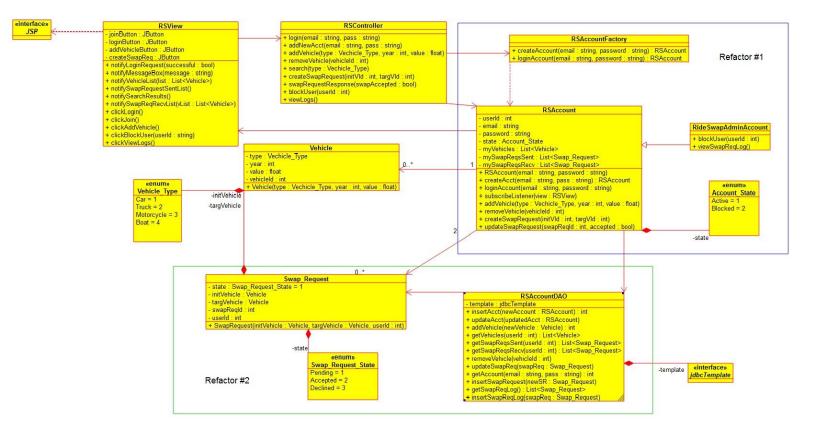
ORIGINAL CLASS DIAGRAM:



REFACTORED CLASS DIAGRAM:



Refactor #1: Added Factory for Account classes

We have decided to use the factory design pattern around the RSAccount and RSAdminAccount classes. Previously the RSController class had to query the database and, based on the query result, create one of the two class objects. We believe that encapsulating this behavior within the factory class would be more appropriate and easier to modify later on.

Refactor #2: Eliminate redundant LogEntry class

After reviewing our class diagram we noticed that the LogEntry class contained redundant information with the Swap_Request class, the only difference was that LogEntry included a userId attribute. By porting the userId attribute back to Swap_Request, we can then send the Swap_Request object to the log table of the database whenever the state of a Swap_Request object changes. We then modified the appropriate methods to retrieve these logs, which will have the same information that was previously in the LogEntry class.

Other Refactor Changes:

RSView Class – Added admin button functionality with clickBlockUser() and clickViewLogs() methods.