CIS 3270 Bus Scheduling System: Function Requirements and Descriptions

* Upon start of the application, the user should see a splash screen
  + Load a GIF file using JavaFX
* The Main menu gives the option to the user to register or login
  + Two button prompts, loads their respective classes
* Login requires username and password
  + Fields cannot be blank and must adhere to database requirements
* Registration requires information such as first name, last name, address, zip, state, username, password, email, SSN and a security question for password recovery.
  + Fields cannot be blank and must adhere to database requirements
* User can login using username and password (Should register first if not a member)
  + Matches text fields with database data fields
* You should enable user to retrieve his password knowing the username with the security question.
  + User’s data is checked with text field data, brings up alert window with password
* There should be two types of users. Admin and customer. The admin has more privileges regarding this application.
  + Admin can access bus management (add/drop/edit bus information)
* After login into application a customer should be able to:
  + Search bus database for busses based on certain criteria
  + Be able to book/delete a bus to their account
  + Customer should not book a bus more than once
  + Alert user of any schedule conflicts
    - Call Boolean method to check bus\_id for that user
  + Application should keep track of number of passengers/limit number of passengers
    - Checks COUNT of database passenger column
* Admins should be able to add, delete, and update bus information
  + Admin only window with table array to edit busses
* User should be able to logout and login with previous reservations visible
  + Store user data in database, always available and never resets upon logout
* Always provide a main menu access point
  + No dead end pages, application flows well