High-Level Design

passwordReset.py

userGroupsInterface.py
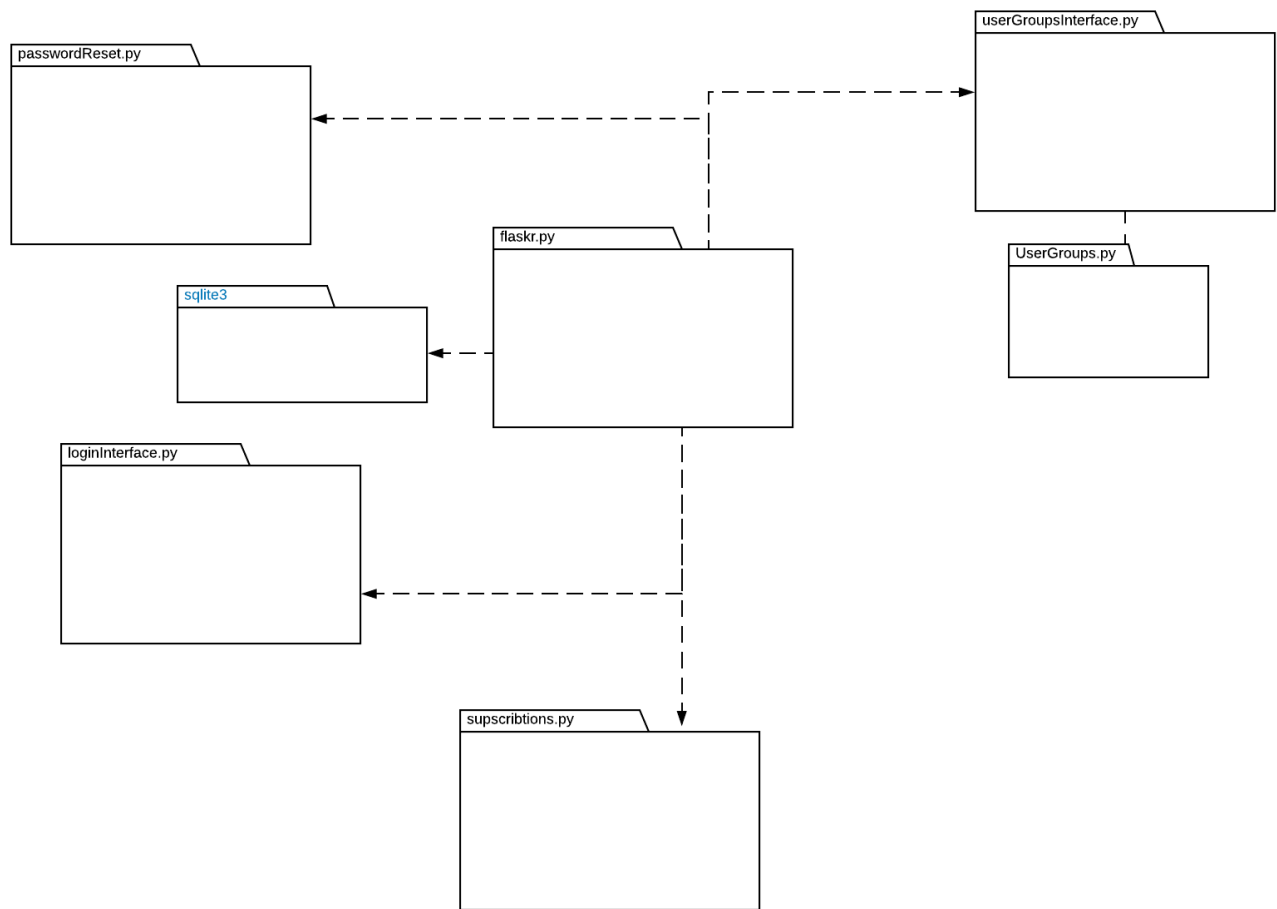
flaskr.py

sqlite3

UserGroups.py

loginInterface.py

supscribtions.py

The application is built around a main file, flaskr.py, that uses all the modules' interfaces to make the necessary calls and get the needed data to run the application. The main file will be hooked into a database that runs on a schema, and this schema will include all of the tables needed for all the modules to work together.

Each interface is related to a member's code; individually they will run on dummy data to make them completely independent, but when combined together they will run through the data they get from the other interfaces. Each interface will only interact with the main flaskr.py file and from there it will connect with the other interfaces to get the needed data. There is no post creation and topic creation interface because it is the central point of the application and all interfaces interact with it directly, so

instead of having its own interface, we made it the main interface and have all the other modules connected to it.

Each of the modules connected to the main module handles a separate function of the application. loginInterface.py provides functionality for user account registration and login, passwordReset.py allows a user to reset the password associated with their account using a security question, userGroups.py enables the creation of user discussion groups and the restriction of topics to specific groups, and subscriptions.py allows for user subscription to topic threads and notification of new posts.