**Description**

* User is prompted for their username and password upon visiting the website. The entered credentials are cross referenced with the data on record in database. User is either granted access or prompted to re-enter login information. Upon successful login, user may choose to search their contacts or add a contact. If the search option is selected the user must provide a name or number of the contact to be searched. The system returns any matching data to the user. From this returned data the user may select a contact to view additional information or edit the contact. If the contact is edited the system verifies the data entered and updates the database info for the contact. If the user originally chose to add a contact, the user is prompted to enter relevant information. The system takes the entered data and updates the appropriate fields in the database.

**Triggers**

* User enters login credentials

**Actors**

* User
* Database

**Preconditions**

* User has contacts they wish to add
* User has pre-existing contacts they wish to search

**Goals**

* Organize contacts for each user
* Allow for easy lookup and addition of contacts

**Fail Conditions**

* Invalid login credentials for user
* No records found for contact lookup
* Invalid entry for new contact data

**Extensions**

* Deny access upon failed login attempt

**Steps of Execution**

1. User enters login credentials
   1. Credentials not found
   2. Prompts user to re-enter login
2. Login is validated
3. User chooses what they would like to do
   1. User searches contact by name
      1. Database is searched
         1. No results found
      2. Results returned
      3. User can select contact to view more information or edit contact
   2. User searches contact by number
      1. Database is searched
         1. No results found
      2. Results returned
      3. User can select contact to view more information or edit contact
   3. User wishes to add contact
      1. User enters contact data
      2. Contact is added to database
4. User may repeat step 3 or logout