Software Engineering Project - Links
Use Case Diagrams

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Abbreviations

1. LAU – Links API user

2. LU – Links user

3. L - Links

Use case diagram

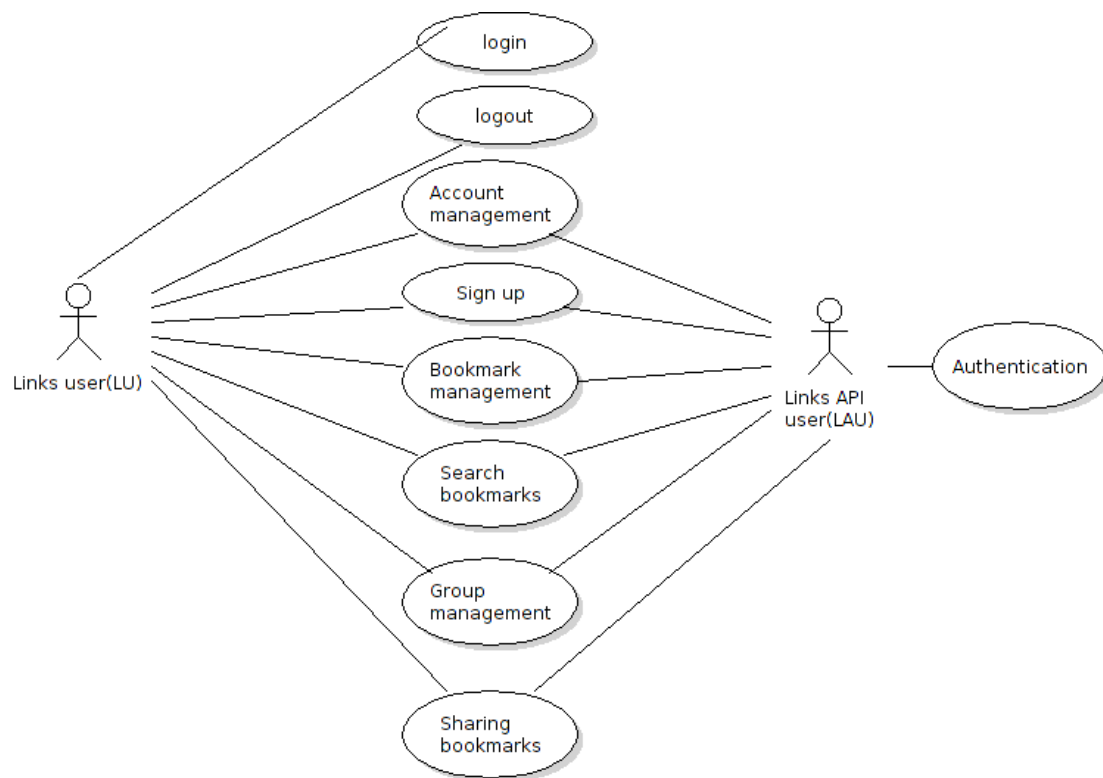Below is the use case diagram of "Links" depicting two actors.

Figure 1: Links - Use Case Diagram.

User Cases

This section wil list all the Use cases related to the actors.

1. Login

   (a) Sequence 1

       i. LU: Clicks on login link.

      ii. L: Presents the login page.

     iii. LU: Enters user name and password.

     iv. L: Displays the message that the user has been logged in.

  (b) Sequence 2: At step iv of Sequence 1

       i. L: Display message that the authentication details are incorrect.

2. Logout

  (a) Sequence 1

       i. LU: Clicks on logout link.

      ii. Links: Displays message that the user has been logged out.

3. Authentication

  (a) Sequence 1

       i. LUA: Requests for an authenticated session.

      ii. L: Asks for authentication details from the LU.

     iii. LU: Provides username and password.

     iv. L: Provides the LUA with an authenticated session.

  (b) Sequence 2: At step iv of Sequence 1

       i. L: Indicates that authentication details are incorrect

4. Sign up

  (a) Sequence 1

       i. LU/LAU: Requests a "Sign up" operation.

      ii. L: Asks for details regarding the user.

     iii. LU/LAU: Provides relevant details.

     iv. L: Confirms account creation pending email verification.

      v. LU: Verifies through email.

     vi. L: Confirms account creation.

  (b) Sequence 2: At step iv of Sequence 1

       i. L: Points out inconsistencies in entry of user details.

5. Account management

  (a) Sequence 1

       i. LU/LAU: Requests a "Modify account" operation after logging in or after authentication.

      ii. L: Return account details.

     iii. LU/LAU: Modifies details and requests an "Update" operation.

      iv. L: Confirm update of account details.

6. Bookmark Management

   (a) Sequence 1

      i. LAU/LU: Specifies an "Add Bookmark" operation after authentication/logging in.
      ii. L: Asks for new bookmark details.
      iii. LU/LAU: Populate the data and submits.
      iv. L: Confirms addition of new links.

   (b) Sequence 2

      i. LAU/LU: Specifies an "Update Bookmark" operation along with details of an associated bookmark after authentication/logging in.
      ii. L: Presents existing data about the bookmark.
      iii. LU: Modifies details and submits.
      iv. L: Confirms update.

   (c) Sequence 3

      i. LU: Specifies a "Delete Bookmark" operation along with details of an associated bookmark after authentication/logging in.
      ii. L: Confirms deletion of bookmark.

7. Search bookmarks

   (a) Sequence 1

      i. LU/LAU: Specifies a "Search" operation along with search keywords.
      ii. L: Presents bookmarks satisfying the search criteria.

8. Share bookmarks

   (a) Sequence 1

      i. LU/LUA: Specifies "Share bookmarks operation" after authentication/logging in.
      ii. L: Asks for list of bookmarks to share and for medium to share through – email, Facebook, Twitter, groups.
      iii. LU: Specifies list of bookmarks and a sharing medium.
      iv. L: Shares bookmarks through the selected medium.

9. Group management

   (a) Sequence 1

      i. LU/LUA: Requests a "Create Group" operation after authentication/logging in.

      ii. L: Asks for relevant details.

     iii. LU/LUA: Provides relevant details.

     iv. L: Confirms creation of group.

(b) Sequence 2

      i. LU/LUA: Requests a "Remove from group" operation for a particular user after logging in / authentication.

     ii. L: Confirms removal of member from the group.

(c) Sequence 3

      i. LU/LUA: Requests a "Add to group" operation after logging in / authentication.

     ii. L: Asks for user name and group.

     iii. LU/LUA: Submits information.

     iv. L: Confirms addition to group.

(d) Sequence 4

      i. LU/LUA: Requests a "Join to group" operation after authentication/logging in.

     ii. L: Asks for group name.

     iii. LU/LUA: Submits information.

     iv. L: Confirms subscription.

(e) Sequence 5

      i. LU/LUA: Requests for an "Unjoin group" operation after logging in / authentication.

     ii. L: Asks for group name.

     iii. LU/LUA: Submits information.

     iv. L: Confirms removal from specified group.