

Software Engineering Project - Links

Use Case Diagrams

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Abbreviations

1. LAU – Links API user
2. LU – LU
3. L - Links

Use case diagram

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

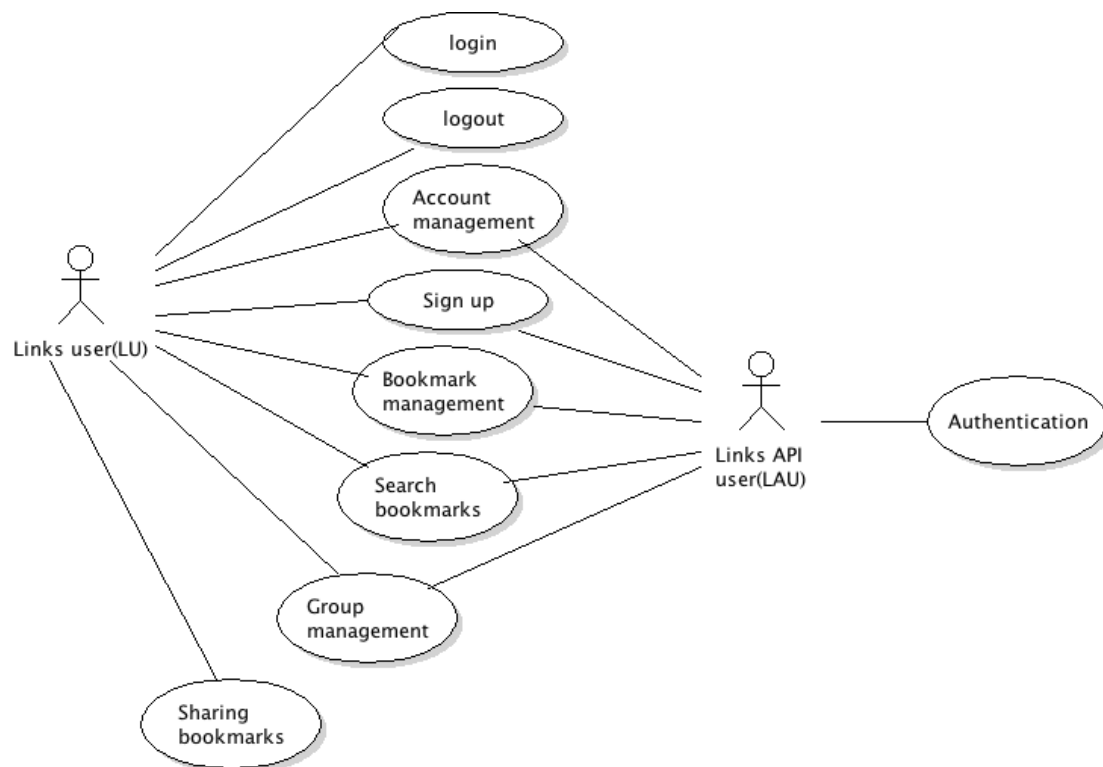


Figure 1: Links - Use Case Diagram.

User Cases

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

1. Login
 - (a) Sequence 1
 - i. LU: Clicks on login link.

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- 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.

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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.

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- 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.