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| Name of Use Case: Sign In |
| Created by: Justin Davis |
| Date Created: 4/18/2021 |
| Description: Allows a user to sign in with their given username and password. |
| Actors: User |
| Preconditions: An account with the username and password must exist. |
| Postconditions: The customer is signed in. |
| Flow:   1. The user enters their username and password. 2. If the username/password combo exists, then the user is signed in |
| Alternative Flows:   1. If the user is unable to enter valid username, the system will prompt them to sign in again 2. If the user enters the correct username, but an invalid password, the system will prompt them to sign in again but will not allow them more than 3 tries in total (Exception #1) |
| Exceptions:   1. Lock the account after 3 failed attempts. |

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| Name of Use Case: Requests Suggestions |
| Created by: Justin Davis |
| Date Created: 4/18/2021 |
| Description: A user requests suggestions for books from the system |
| Actors: User, Recommender |
| Preconditions:   1. User has signed in successfully 2. The system has a list of ratings from the user and other users. |
| Postconditions: System provides user with recommendations. |
| Flow:   1. User Requests suggestions from the system. 2. System performs pairwise calculation with user ratings and member ratings. 3. Provides user with recommended books. |
| Alternative Flows: Customer has yet to rate any books, and is prompted to rate books before using again. |
| Exceptions: |

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| Name of Use Case: Make Pair-wise Calculations |
| Created by: Justin Davis |
| Date Created: 4/18/2021 |
| Description: Takes in a group of ratings from the user and compares them to ratings from other users for similar books. Depending of the score, it then provides the user a list of books they should try. |
| Actors: System |
| Preconditions:   1. User has requested suggestions 2. System has a list of ratings from the user 3. System has a list of ratings from other users |
| Postconditions: System recommends books to the user |
| Flow:   1. System receives request for ratings 2. Retrieves current user and member ratings for various books 3. Complete a calculation based on related ratings 4. Suggest other books to the user |
| Alternative Flows: Ratings do not line up with other users and therefor no recommendations can be made |
| Exceptions: |