



Shopping cart assignment

Zac and Soham



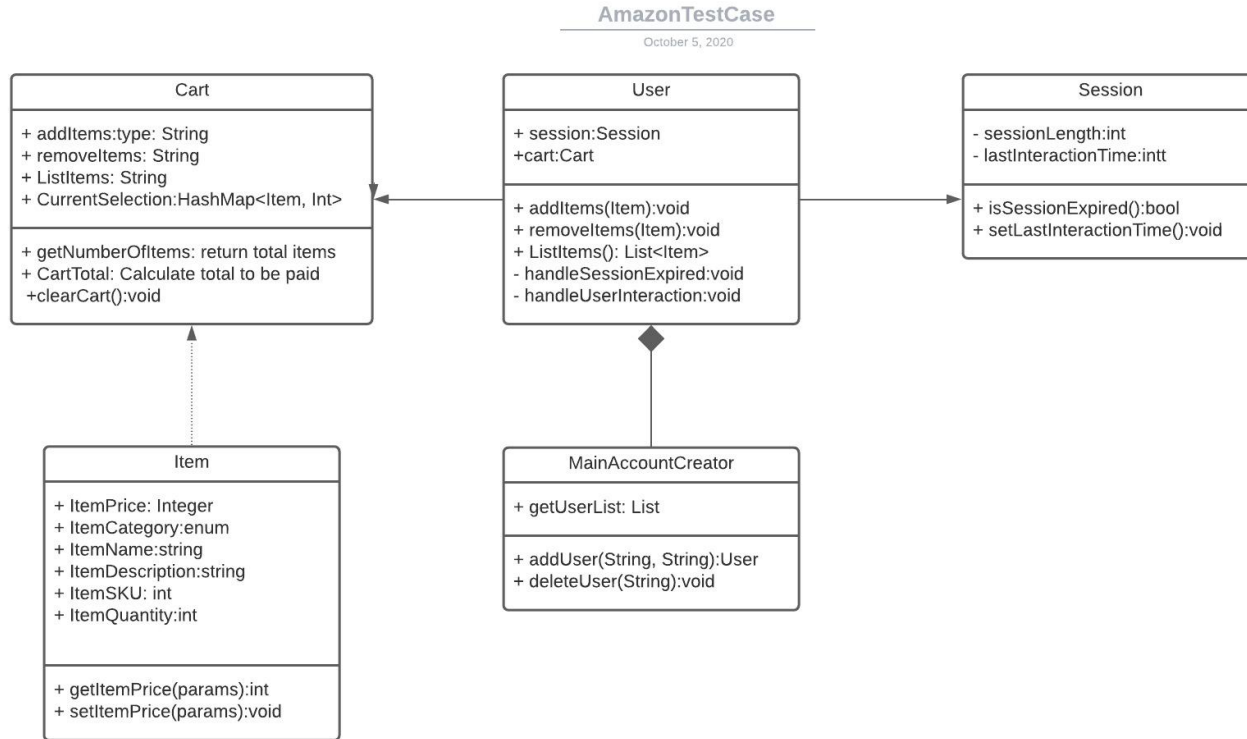
Classes

We have used the following classes:

- **User:** Encompasses the complete user journey on the site
- **Session:** Determines the length of each session of the user
- **Cart:** Covers the user's choices and final journey
- **Item:** Includes all basic attributes (name/price/category/description)
- **AccountCreator:** Maintain list of all user accounts

UML Diagram

<https://app.lucidchart.com/invitations/accept/d679a795-91ed-4e66-b595-173fc09ba17c>



UML

Code

<https://github.com/zacbennett/amazon-mock-assignment>

Creational Pattern used: Singleton

We have used the following behavior pattern because:

Our MainAccountCreator class requires a database connection to make a user and we only want one object connected to the database at a time.

Structural Pattern Used: Facade

We have used the following behavior pattern because:

On the Session Class, we have a method called `isSessionExpired`. By using the facade pattern, the client only knows that the method returns a boolean, and is not aware of how we determine if the session is expired.

Thanks!

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