

Design Specification:

The updated design specification includes three classes: ShoppingCart, Checkout, and Account Management.

[Shopping Cart] is responsible for keeping track of the user's selected tickets and their total cost. It has the following attributes:

Cart: an array of Ticket objects

totalCost: an integer that represents the total cost of the tickets in the cart

discount: a boolean value that indicates whether a discount has been applied

It also has the following methods:

addTicket(Ticket tik): adds the specified Ticket object to the cart

removeTicket(Ticket tik): removes the specified Ticket object from the cart

displayCart(): returns an array of Ticket objects that represents the current contents of the cart

addDiscount(int amount): applies a discount of the specified amount to the total cost of the tickets in the cart

[Checkout] is responsible for handling the user's purchase once they have finished selecting their tickets. It has the following attributes:

cart: a ShoppingCart object that represents the user's selected tickets

totalCost: an integer that represents the total cost of the user's purchase

It also has the following methods:

ConfirmPurchase(): confirms the user's purchase and updates the appropriate records in the system

checkout(): handles the payment process and completes the purchase

[Account Management] is responsible for managing user accounts. It has the following attributes:

Username: a String that represents the user's username

Password: a String that represents the user's password

It also has the following methods:

createnewAccount(): creates a new user account with the specified username and password

deleteAccount(): deletes the user's account

changePassword(String newPW): changes the user's password to the specified new password.