



UNITED INTERNATIONAL UNIVERSITY (UIU)

Dept. of Computer Science & Engineering

Trimester: Summer 2022

Course No: CSE 4495

Title: Software Quality Assurance and Testing

Section: A

Class Test-2

Time: 20 minutes

Marks: 20

Name	ID
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1. Consider the following class diagrams for users in an online shopping platform. Here each user has a personal cart where he/she can add items to for checkout. Each user also has a membership status. As the system is in beta phase there are only two possible values for the integer **User. membership_status**: 0 = 'Not membership, 1 = 'VIP membership'. The difference being users with VIP membership can apply a coupon which provides a 20% discount on the cart subtotal, whereas a non-member isn't eligible to apply. Now, devise two executable test cases for testing the **applyCoupon()** method of User class in the JUnit notation. The test case specifications are described for you - **[10+10 = 20]**

User	Item
String userName List<Item> cart int membership_status...	String name String vendor double price
User (username, membership) addToCart(item) getCartSubtotal() applyCoupon(Coupon) isCouponApplied()...	Item (name, vendor , duration)

/*case-1 write a test case for a user with membership. Try to add atleast two items to the cart and apply coupon. It is expected to be applied successfully. Check the cart subtotal and coupon status for consistency. You can check whether the coupon was added successfully or not with **isCouponApplied()** method.*/

```
/*case-2 write a test case for a user with no membership Try to add atleast  
two items to the cart and apply coupon. The system should throw  
“NotaMemberException” with message “This coupon is not applicable for you.  
Please upgrade to VIP.” Also check the cart subtotal and coupon status for  
consistency.*/
```