**Test Cases:**

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| **TID** | **Purpose** | **Description** | **Expected Result** | **Actual Result** |
| 01 | To check the connection of Admin Controller and User Service, User, Category, Category Service, Product, Product Service | Admin Controller retrieves and updates all the saved   data of respective modules as required. | Admin Controller successfully retrieves and saves all data. | Admin Controller successfully retrieves and saves all data. |
| 02 | To check the connection of User Controller and User Service, User, Product Service, Product | User Controller verifies user login details and retrieves  all products. | Login is checked successfully and all products are also retrieved. | Login is checked successfully and all products are also retrieved |
| 03 | To check the connection of Product Service, Product DAO, User Controller, Admin Controller, Product | The Product Service obtains product information from both the user controller and admin controller. It verifies the sender's identity and, if the sender is an admin, forwards the information to the DAO for updating. If the sender is a user, the information is saved. | Updating is successfully performed and saved | Updating is successfully performed and saved |
| 04 | To check the connection of Product DAO and Product, Product Service | Product DAO receives info from Product service about products and updates or saves it. | Information is successfully saved. | Product is successfully saved. |
| 05 | To check the connection of Category Service, Category, Admin Controller | Category Service receives the new Category from Admin Controller and saves it. | Category is successfully updated or saved. | Category is not added to the list |
| 06 | To check the connection of Product and User Controller, Admin Controller, Product Service, Product DAO, Category, Product. | Admin creates or delete product and adds category | Product is successfully created with given category and is shown to user | Product is saved and shown to user. |
| 07 | To check the connection of Cart and Cart Dao, Cart Service, User, Product | User adds or deletes products in the cart. | The products are added successfully in the cart. | Products are not added to the cart. |
| 08 | To check the connection of User DAO and User, User Service | User gets registered by entering the information | User is created by verification. | User is created. |
| 09 | To check the connection of User Service and User DAO, Admin Controller, User Controller | Admin Controller retrieves all users and makes changes in their saved data and then transmits the updated data to the User Service for saving into the database. | Admin is able to see all saved users and is able to make changes. | Admin is able to see all saved users but is not able to make changes. |
| 10 | To check the connection of Cart DAO and Cart, Cart Service | Changes made in cart are sent to Cart DAO to save it in database. | Changes are successfully stored in the Database. | Changes are not stored in database. |
| 11 | To check the connection of Cart Service and Cart, Cart DAO | For the purpose of saving information, the Cart Service transmits the cart details to the Cart DAO. | Information is successfully stored. | Information is not stored. |