**Factory Method Creational Pattern:**

We have implemented Factory Method Pattern for different types of logins into the system

**Problem**: To differentiate Admin Login and Customer Login.

**Scenario**: While Logging into the system the admin should see a different screen and customer should see a different screen. The admin has option to add and remove the product while customers doesn’t have these options. In Customer also we have two different options, one is regular customer and other is elite customer.

**Solution using Factory Method design pattern:**

Implemented login differently for different classes. Here Login screen and home screen is same for all the users, but they have to see different screen after login, i.e Admin sees admins screen, Customer Elite has special discounts therefore has a different screen. Normal customer can view the regular screen.

Login method is implemented differently for Admin Class, Customer Class, and Elite Customer Class.

**Class Diagram**:

Diagram

Description automatically generated

**Collaboration Diagram**:

Diagram

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