**COE528 Written Report\***

The Use Case Diagram consists of two actors, Admin and Customer. The Admin can set the balance of customers (setting up the account with an initial amount) and add and delete customers. The customer can check their balance, withdraw, deposit and do online purchases. Levels (which is called upon when withdraw, deposit and online purchase functions take place) can be used to determine what level the customer is based on their balance by calling on the classes: Silver, Gold and Platinum which extend the levels class. Both the Admin and Customer can login and logout.\*\*

Use case:

* Name: add\_c (Function to add customer)
* Actors: Admin
* Entry Conditions: Admin creates account with an available username and a password
* Flow of Events:
  + - 1. Admin logs in.
      2. Admin\_Page requires information to create account (username, password and amount account is created with).
      3. Manager class creates array and file for the information entered to be stored in.
* Exit Conditions: Customer has balance of $100 in account and username isn’t taken
* Exceptions: None
* Special Requirements: None

The class that was selected for point number 2 of “Work Items” was the Silver class.

The parts (classes) that form the State design pattern are (Silver(), Gold(), Platinum() and levels)