

Part A

VoiceMail Use Case Scenarios

USE CASE : Erase All Messages

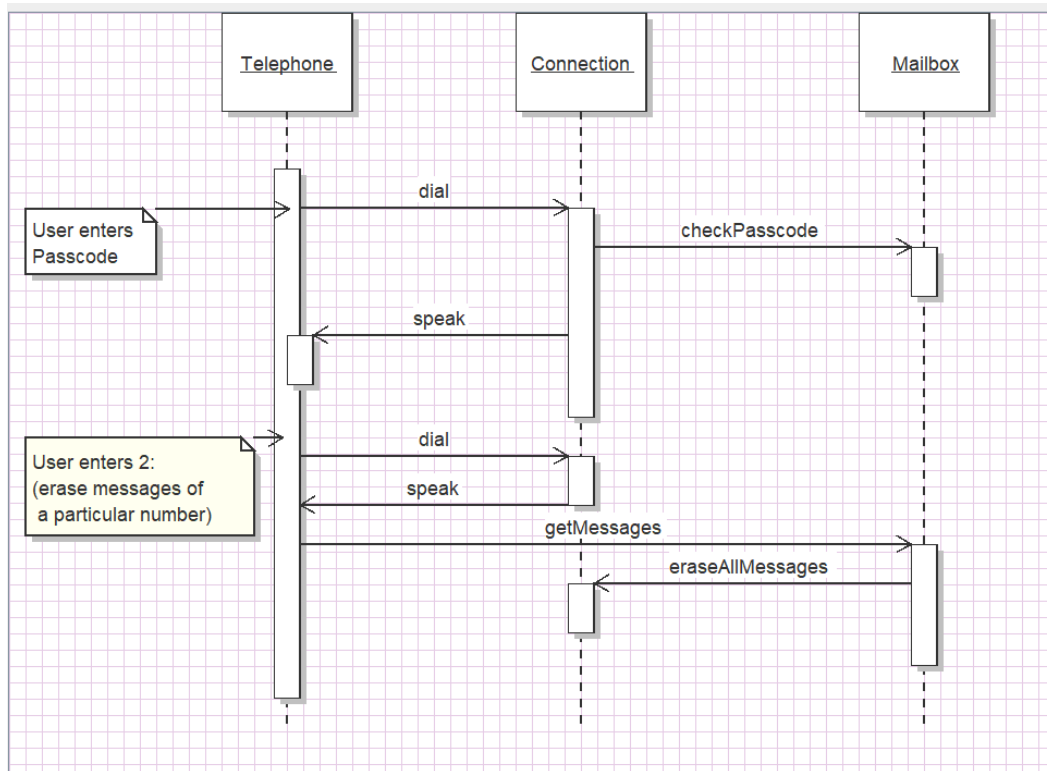
1. Mailbox owner carries out Log in
2. Mailbox owner Selects "Erase All Messages"
3. System Messages Play.  
Press 1 to Erase All Messages of Every Phone #  
Press 2 to Erase Messages of a Particular #  
Press 3 to Return to Mailbox Menu
4. Mailbox owner Selects "Erase Messages of a Particular #"
5. System Prompts User to Enter info of Sender
6. After Phone Number is Entered, System asks User if they want to delete All Messages 1 (Yes) 2 (No)
7. User ~~also~~ Selects "Yes"
8. All Messages are deleted for Selected Phone Number

USE Case : Unsuccessful

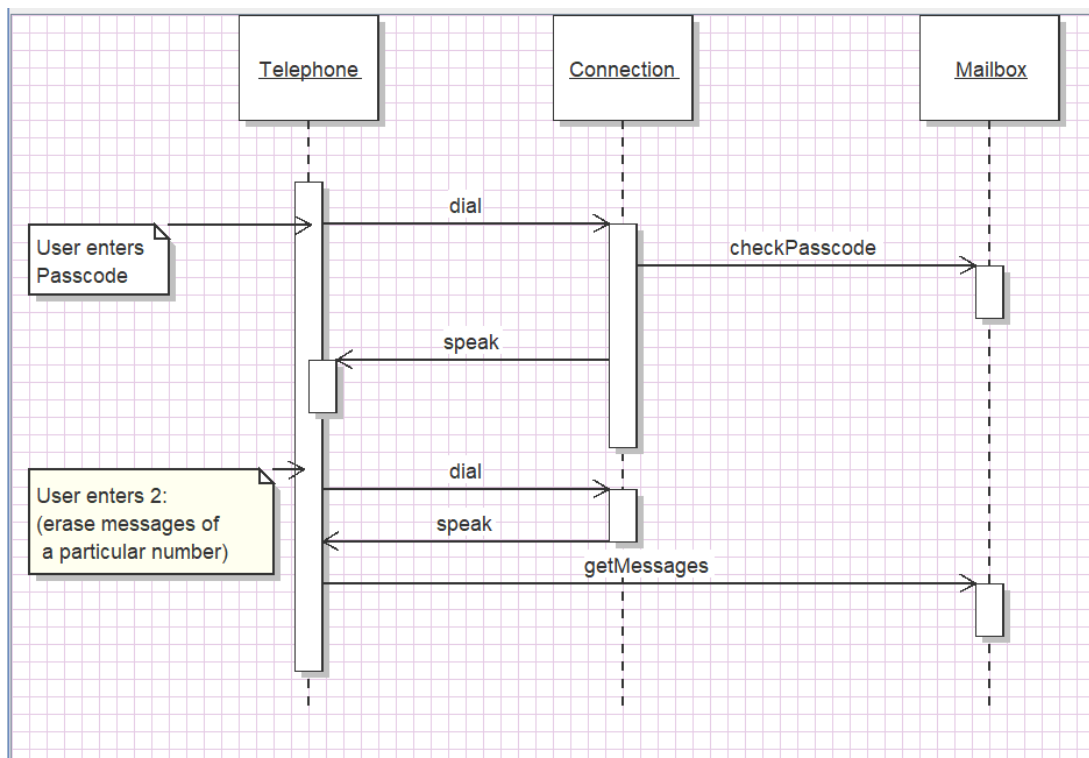
- 1.1. Start at Step 6
- 1.2. User Selects "No"
- 1.3. User is Returned to Step 3

## Part B

### Voicemail Sequence Diagrams Erase All Messages

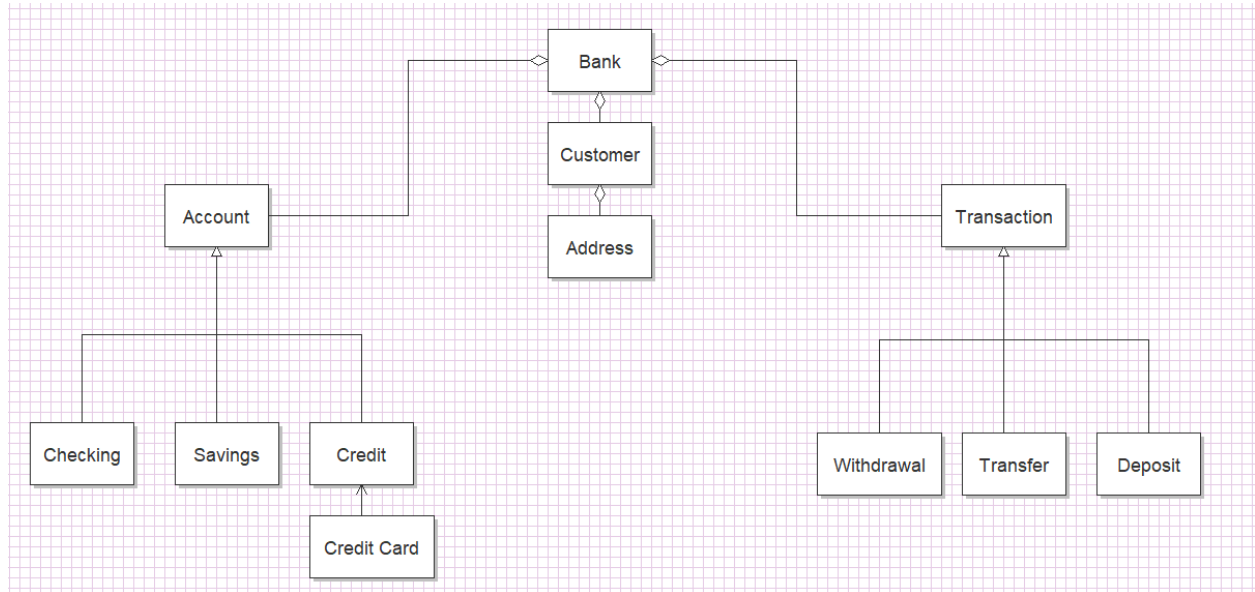


### Erase All Messages Unsuccessful



## Problem # 2

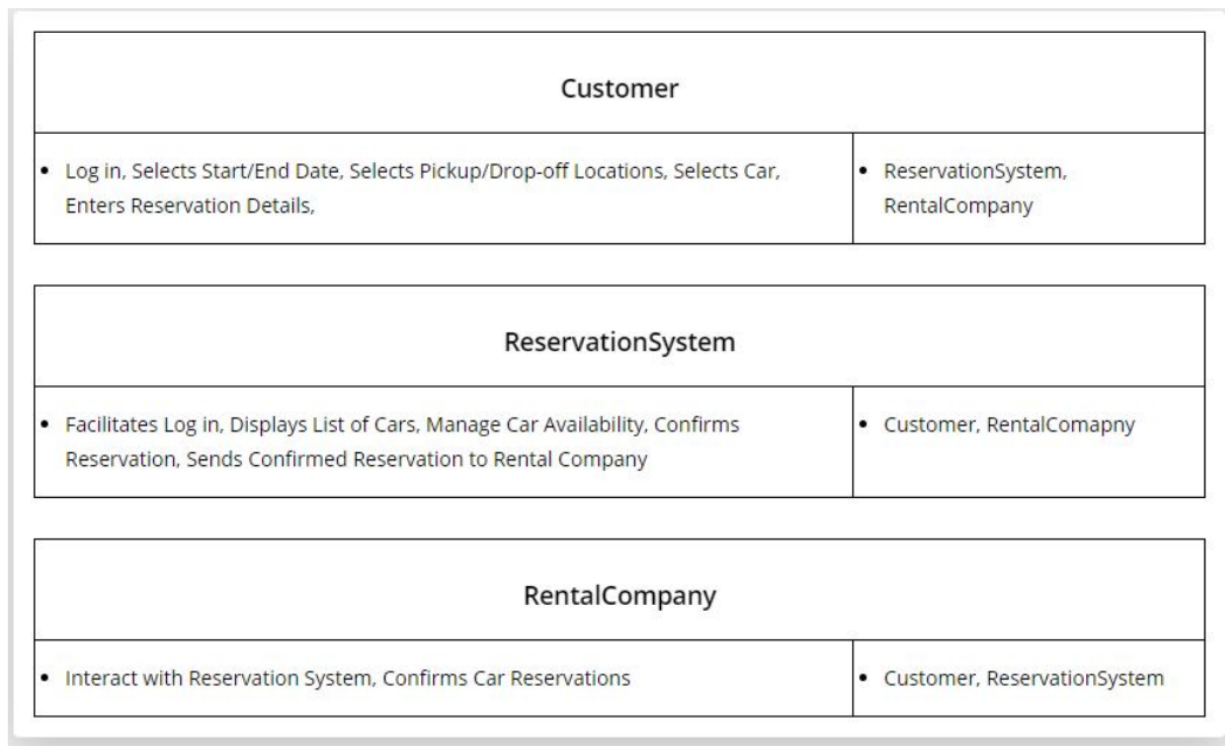
### Online Bank Application Class Diagram



## Problem #3

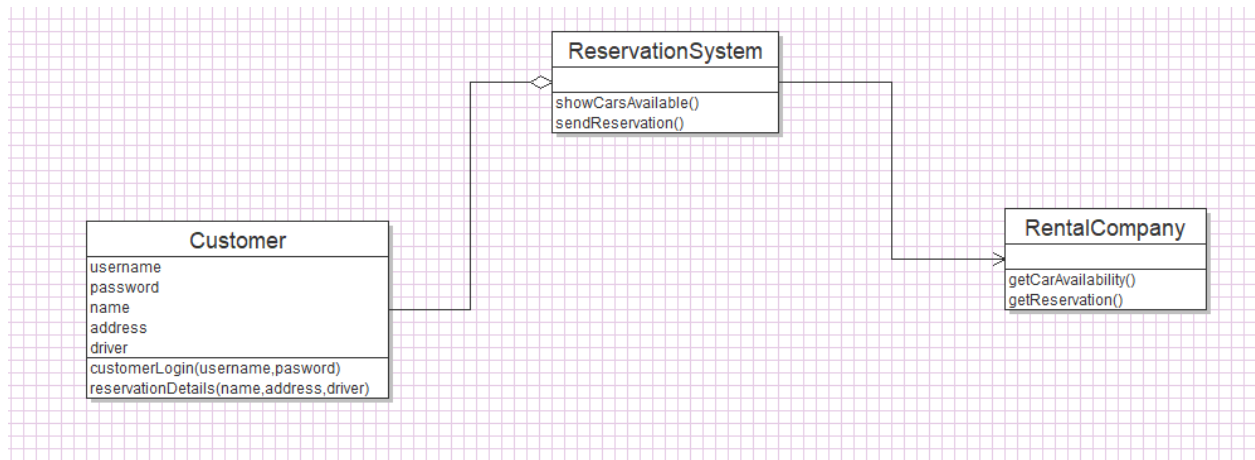
### Part A

#### Car Rental CRC Cards



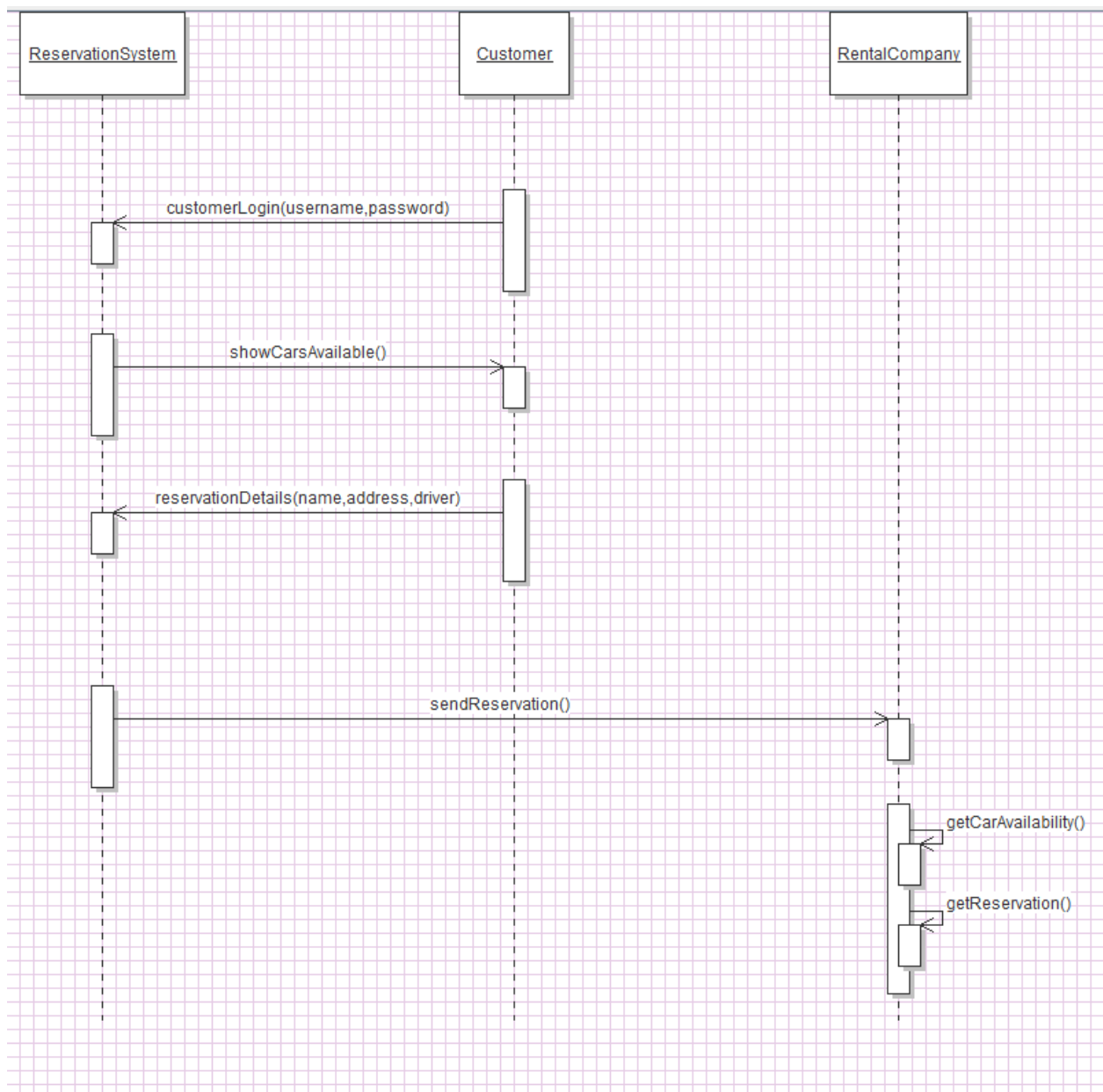
## Part B

### Car Rental Class Diagram



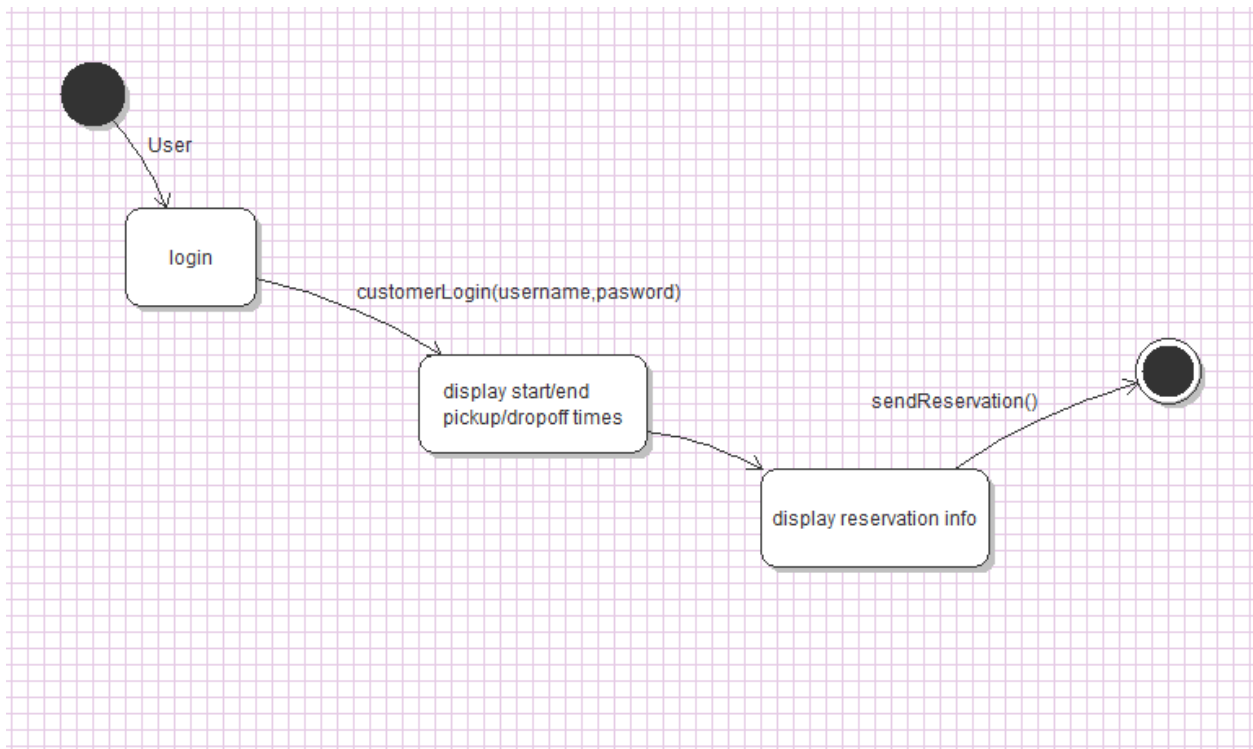
## Part C

### Car Rental Sequence Diagram



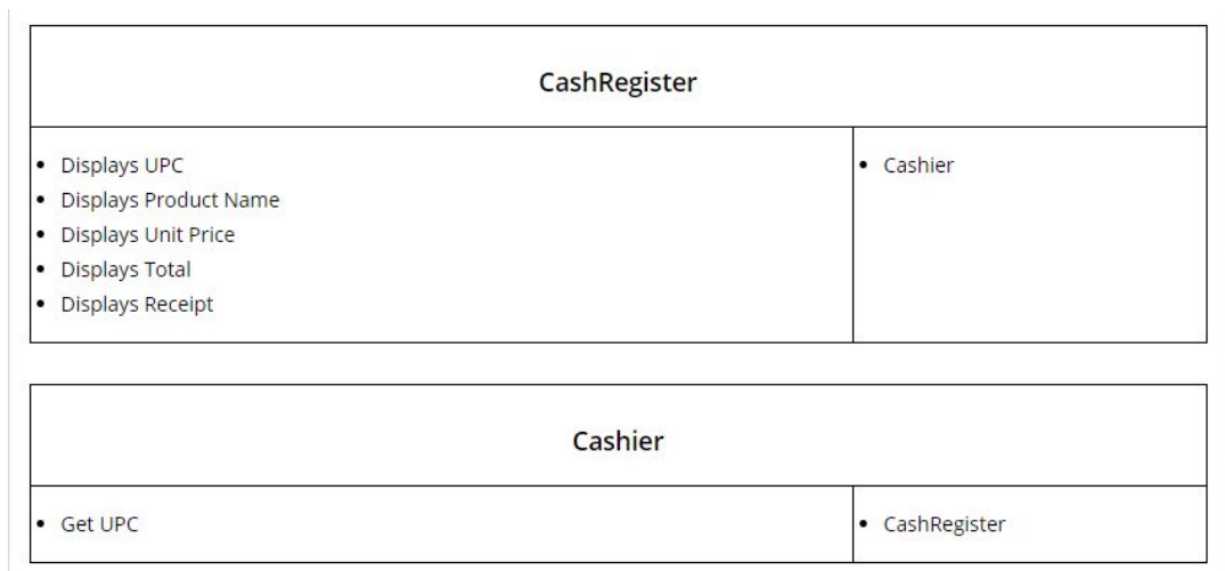
## Part D

### Car Rental State Diagram

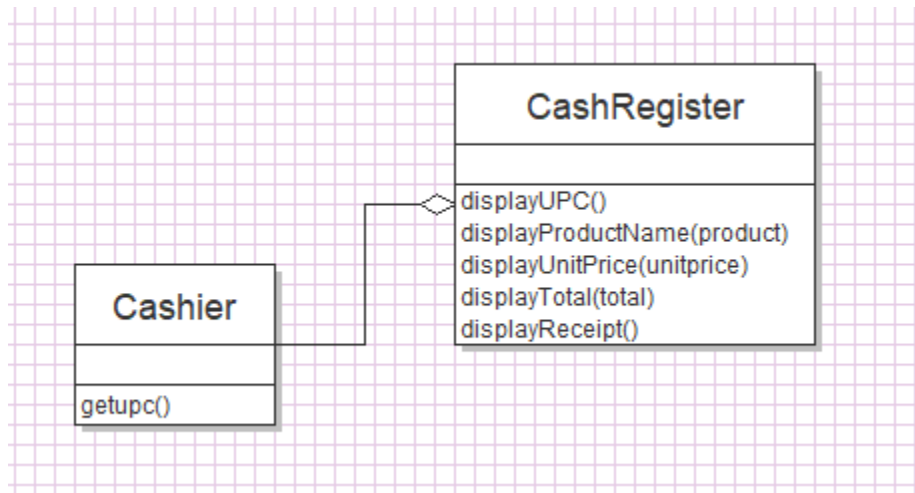


## Problem # 4

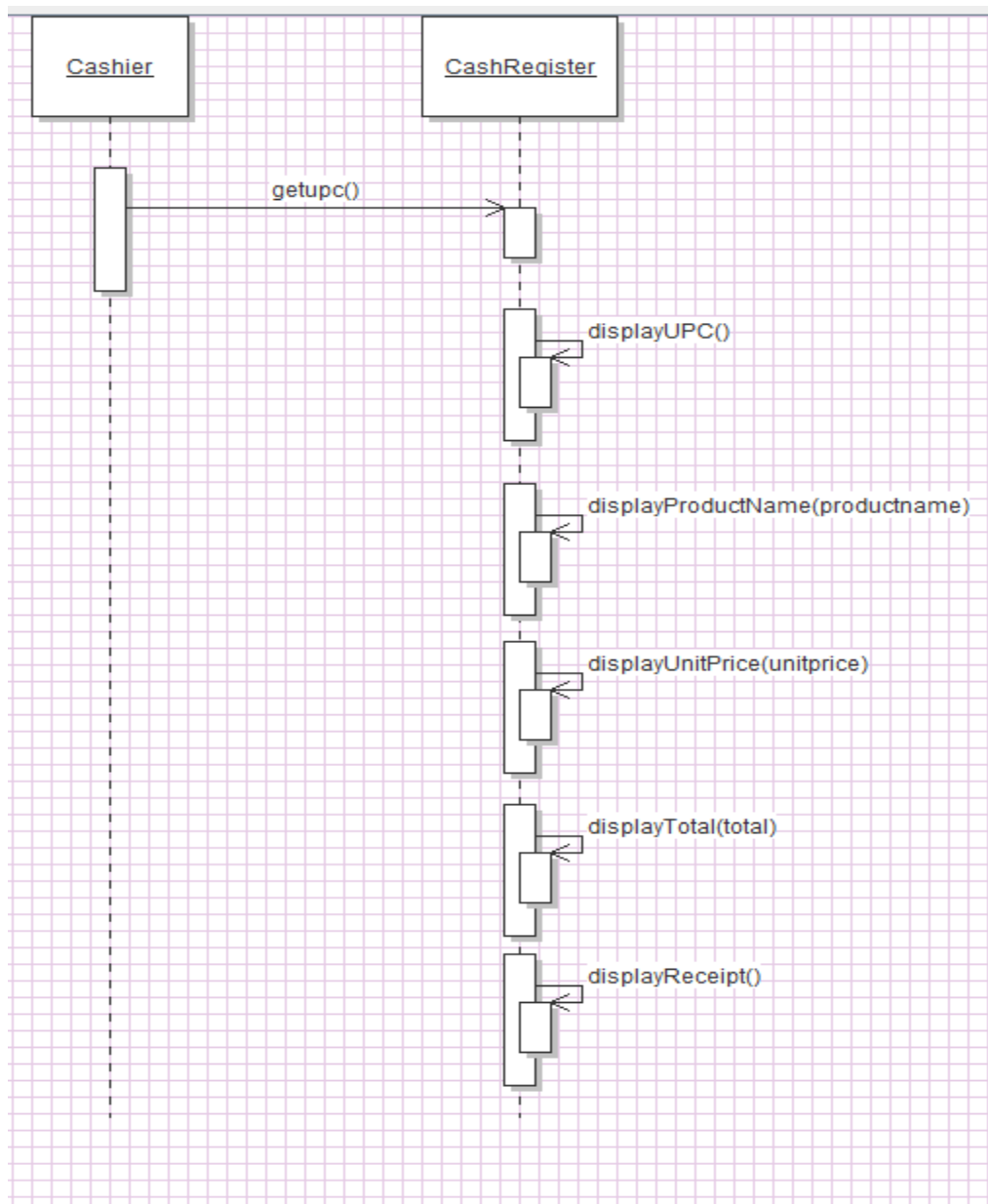
### Cash Register CRC



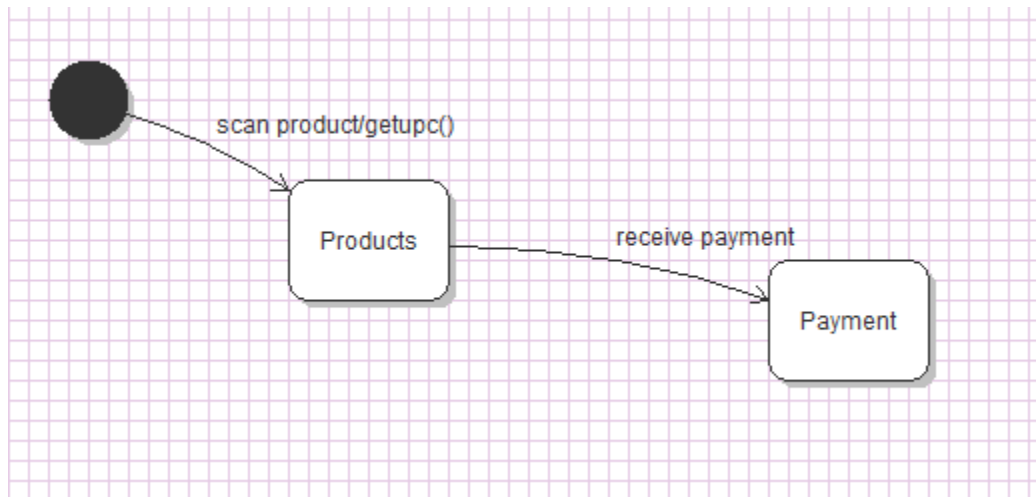
### Cash Register Class Diagram



### Cash Register Sequence Diagram



## Cash Register State Diagram



## Cash Register Program

```
/*
DWAYNE FRASER
HOMEWORK 2.4
*/

package q4;

public class CashRegister {

    public CashRegister(){

    }

    /**
     displays UPC
    */
    public void displayUPC(){
        Cashier myUpcObj = new Cashier();
        UPC = myUpcObj.getupc();
        System.out.println("UPC is: " + UPC);
    }

    /**
     displays Product Name
    */
    public void displayProductName(String productname){
        Product_Name = productname;
        System.out.println("Product Name is: " + Product_Name);
    }

    /**
     displays Unit Price
    */
    public void displayUnitPrice(String unitprice){
```

```

        Unit_Price = unitprice;
        System.out.println("Unit Price is: " + Unit_Price);
    }
    /**
     displays Total
    */
    public void displayTotal(String total){
        Total = total;
        System.out.println("Total is: " + Total);
    }

    public void displayReceipt(){
        System.out.println("Product Name is: " + Product_Name);
        System.out.println("UPC is: " + UPC);
        System.out.println("Unit Price is: " + Unit_Price);
        System.out.println("Total is: " + Total);
    }

    private String UPC;
    private String Product_Name;
    private String Unit_Price;
    private String Total;
}

/**
 DWAYNE FRASER
 HOMEWORK 2.4
 */

package q4;

import java.util.Scanner;

public class Cashier {

    public Cashier(){

    }

    public String getupc(){

        Scanner myObj = new Scanner(System.in); // Create a Scanner object
        System.out.println("Enter UPC");

        UPC = myObj.nextLine(); // Read user input
        return UPC;

    }

    private String UPC;
}

/**

```



DWAYNE FRASER  
HOMEWORK 2.4

\*/

```
package q4;

public class Main {

    public static void main(String args[]){
        CashRegister myRegObj = new CashRegister();
        myRegObj.displayUPC();
        myRegObj.displayProductName("Soup");
        myRegObj.displayUnitPrice("$2.00");
        myRegObj.displayTotal("$2.50");
        myRegObj.displayReceipt();

    }
}
```

Program #5  
Part A  
ChainedIn Use Cases

USE Case: Read Recent Posts

1. ~~System~~ System gets recent Post for current user
2. System displays recent post

USE Case: Edit Profile

1. System ~~display~~ displays UI for user to edit Profile Info
2. System ~~save~~ Saves input from user

USE Case: Write Post

1. System displays UI for user to Write a new post
2. User Writes info
3. System Saves Input from user

## Part B

### ChainedIn CRC

User	
<ul style="list-style-type: none"> <li>• Read Recent Post</li> <li>• Edit Profile</li> <li>• Write Post</li> </ul>	<ul style="list-style-type: none"> <li>• Post</li> <li>• ChainedInSystem</li> </ul>

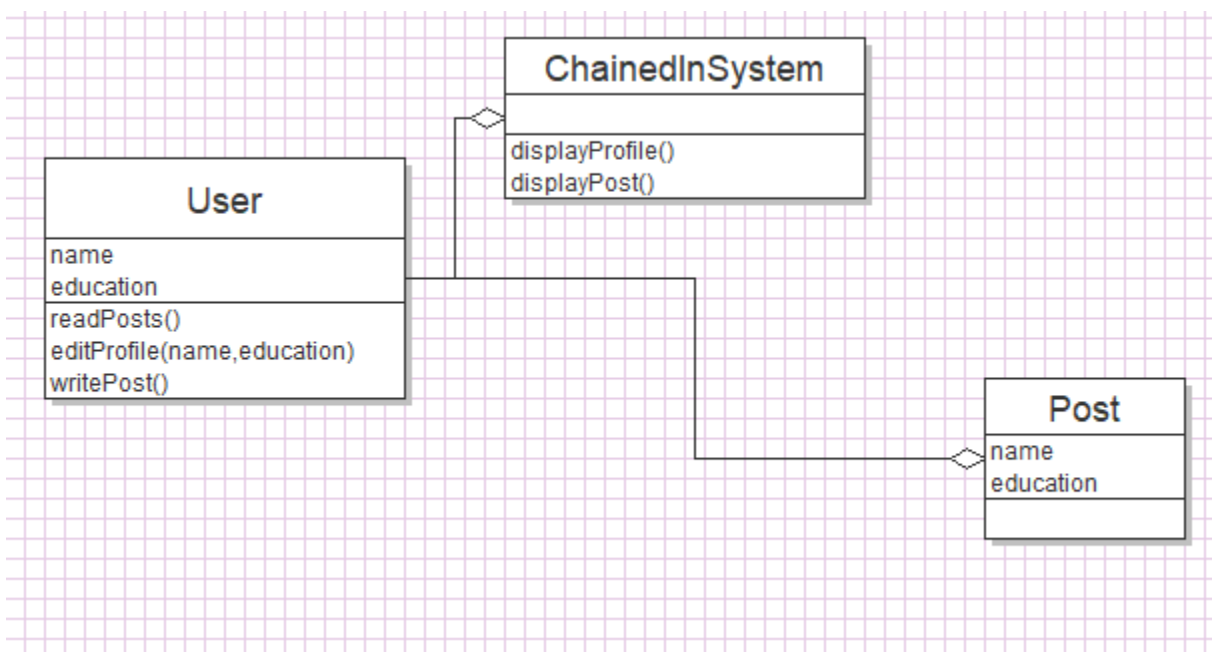
Post	
<ul style="list-style-type: none"> <li>• Store Contents</li> <li>• Update Contents</li> </ul>	<ul style="list-style-type: none"> <li>• User</li> <li>• ChainedInSystem</li> </ul>

ChainedInSystem	
<ul style="list-style-type: none"> <li>• Displays Profile</li> <li>• Displays Post</li> </ul>	<ul style="list-style-type: none"> <li>• User</li> <li>• Post</li> </ul>

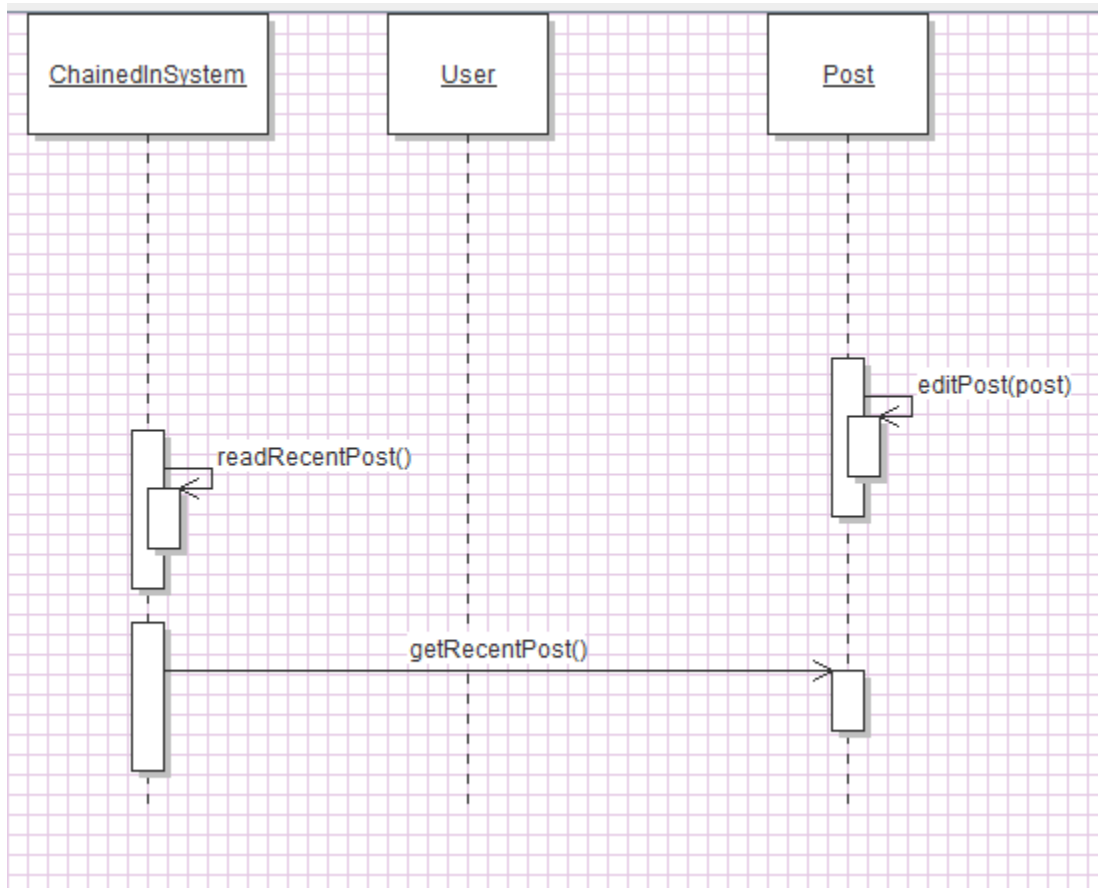
## Part C

### ChainedIn Class Diagram

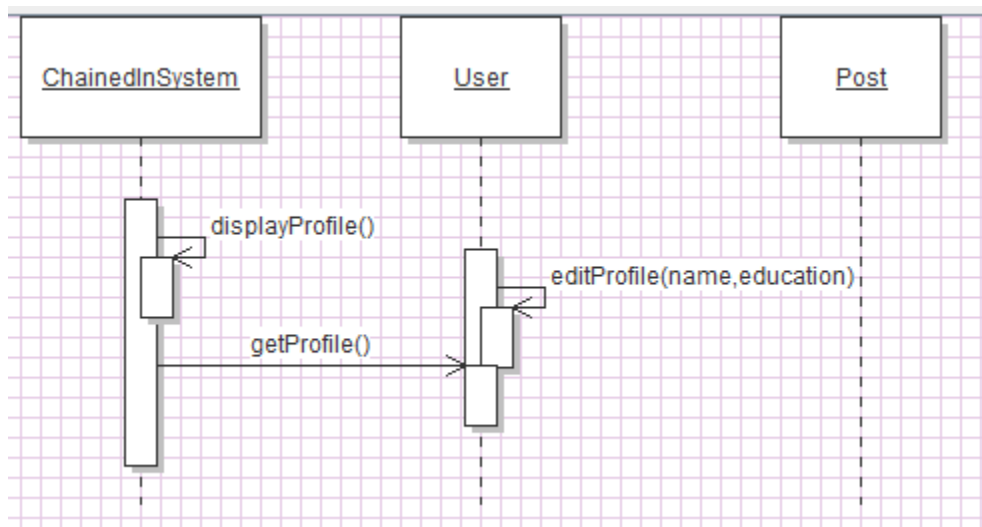


**Part D**  
**ChainedIn Sequence Diagram**

**(Read Recent Post)**



**(Edit Profile)**



### (Write Post)

