**Class Diagrams**

**Class - Customer**

**Requirements:**

* Properties: Id, First and last name, address (only the state), and email address
* Change information
* Access database for relevant information
* Display information

**Pseudo Code:**

Int id

string firstName

string lastName

string address

string email

void Customer() // Empty constructor

void Customer(id, firstName, lastName, address, email) // Full constructor

int GetId()

string GetFirstName()

string GetLastName()

string GetAddress()

string GetEmail()

void SetId(id)

void SetFirstName(firstName)

void SetLastName(lastName)

void SetAddress(address)

void SetEmail(email)

// REQUIRED FUNCTIONS

void Display(textBox){ // The display should take a text box then display the relevant information }

void SetupDB(){ // This function will setup the necessary database components }

void SelectDB(id){ // This function will set the properties of the class with info from the database }

void InsertDB(){ // This function will insert a new customer into the database }

void UpdateDB(id){ // Function will update the database }

void DeleteDB(id){ // This function will delete a customer from the database }

**Class – Person**

**Requirements:**

* Properties: First and last name, address, email address
* Change info

**Pseudo Code:**

string firstName

string lastName

string address

string email

void Person() // Empty constructor

void Person(firstName, lastName, address, email) // full constructor

string GetFirstName()

string GetLastName()

string GetAddress()

string GetEmail()

void SetFirstName(firstName)

void SetLastName(lastName)

void SetAddress(address)

void SetEmail(email)

**Class – Account**

**Requirements:**

* Properties: Account number, Customer id, type, balance
* Change information in database
* Access database
* Display function

**Pseudo Code:**

int accNo

int cusId

string type

double balance

void Account() // Empty constructor

void Account(accNo, cId, type, balance) // Full constructor

int GetAccNo()

int GetCusId()

string GetType()

double GetBalance()

void SetAccNo(accNo)

void SetCusId(cusId)

void SetType(type)

void SetBalance(balance)

// REQUIRED FUNCTIONS

void Display(textBox){ // The display should take a text box then display the relevant information }

void SetupDB(){ // This function will setup the necessary database components }

void SelectDB(id){ // This function will set the properties of the class with info from the database }

void InsertDB(){ // This function will insert a new customer into the database }

void UpdateDB(){ // Function will update the database }

void DeleteDB(id){ // This function will delete a customer from the database }

void UpdateBalance(){ // This function will update the balance for the customer in DB }