

White Box Test

“CINEMA BOX OFFICE(ONLINE)”

Versión 1.1

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CINEMA BOX OFFICE(ONLINE)

SOURCE CODE

Package Controller

FileManager:

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package ec.edu.espe.cinemaboxoffice.controller;

import java.io.BufferedReader;
import java.io.File;
import java.io.FileReader;
import java.io.FileWriter;
import java.io.IOException;
import java.io.PrintWriter;
import java.util.logging.Level;
import java.util.logging.Logger;

/**
 *
 * @author Kevin Chuquimarca ESPE-DCCO
 */

public final class FileManager {

    private String fileName;
    private File file;
    private boolean answer = true;

    public FileManager(String fileName) {
        this.fileName = fileName;
    }

    public boolean createFile() {
        file = new File(fileName);
        if (!file.exists()) {
            try {
                file.createNewFile();
            } catch (IOException ex) {
                Logger.getLogger(Object.class.getName()).log(Level.SEVERE, null, ex);
                answer = false;
            }
        }
        return answer;
    }

    public boolean writeFile(String informationToSave) {
        createFile();
        try (FileWriter fileWriter = new FileWriter(file, true);
            PrintWriter printWriter = new PrintWriter(fileWriter)) {
            printWriter.println(informationToSave);
            printWriter.close();
        }
    }
}
```

```

        try {
            fileWriter.close();
        } catch (IOException ex) {
            Logger.getLogger(Object.class.getName()).log(Level.SEVERE, null, ex);
            answer = false;
        }
    } catch (IOException ex) {
        Logger.getLogger(Object.class.getName()).log(Level.SEVERE, null, ex);
        answer = false;
    }
}
return answer;
}

public boolean readFile() {
    createFile();
    try {
        FileReader fileReader = new FileReader(file);
        BufferedReader bufferReader = new BufferedReader(fileReader);
        String stringData = "";
        while (stringData != null) {
            System.out.println(stringData);
            stringData = bufferReader.readLine();
        }
    } catch (IOException ex) {
        Logger.getLogger(Object.class.getName()).log(Level.SEVERE, null, ex);
        answer = false;
    }
    return answer;
}

public void deleteFile() {
    file = new File(fileName);
    if (file.exists()) {
        file.delete();
        System.out.println("The file " + file + " was delete");
    } else {
        System.out.println("The file " + file + " don't exist");
    }
}

public boolean findRecord(String seeker) {
    createFile();
    boolean flat = false;
    try {
        FileReader fileReader = new FileReader(file);
        BufferedReader bufferReader = new BufferedReader(fileReader);
        String linea;
        while ((linea = bufferReader.readLine()) != null) {
            String[] searchWord = linea.split(",");
            if (searchWord[0].equals(seeker)) {
                System.out.println(linea);
                flat = true;
            }
        }
    }
    if (flat == false) {
        System.out.println("Non-existent movie or unregistered movies on "
            + "billboard");
    }
} catch (IOException ex) {
    Logger.getLogger(Object.class.getName()).log(Level.SEVERE, null, ex);
    answer = false;
}

```

```

    }
    return answer;
}
}

```

RecordInformation:

```

/*
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 * and open the template in the editor.
 */
package ec.edu.espe.cinemaboxoffice.controller;

import ec.edu.espe.cinemaboxoffice.model.FoodCombo;
import ec.edu.espe.cinemaboxoffice.model.Movie;
import ec.edu.espe.cinemaboxoffice.model.Promotion;
import ec.edu.espe.cinemaboxoffice.model.Room;
import ec.edu.espe.cinemaboxoffice.utils.Keyboard;
import java.io.IOException;

/**
 *
 * @author Kevin Chuquimarca ESPE-DCCO
 */
public class RecordInformation {

    private Movie movie;
    private Promotion promotion;

    Keyboard in = new Keyboard();

    public void createMovie() throws IOException {

        boolean repeat = false;
        String answer;
        String movieTitle;
        String movieGender;
        int roomNumberForMovie;
        String roomFormatForMovie;
        float moviePrice = 3.0f;
        FileManager file = new FileManager("MovieList.txt");
        do {
            Room room = new Room();
            movieTitle = in.getString("Enter the movie title");
            movieGender = in.getString("Enter the movie gender: ");
            room.showDataRoom();
            roomNumberForMovie = in.getInt("Enter the movie room: ", 1);
            roomFormatForMovie = in.getString("Enter the movie format: ");
            if ("2D".equals(roomFormatForMovie)){
                moviePrice = moviePrice + 3.50f;
            }
            if ("3D".equals(roomFormatForMovie)){
                moviePrice = moviePrice + 5.0f;
            }
            movie = new Movie(movieTitle, movieGender, roomNumberForMovie, roomFormatForMovie,
moviePrice);
            System.out.println(file.writeFile(movie.toString()));
            answer = in.getStringAnswer("Add more movies[yes/no]: ");
            if ("no".equals(answer)) {
                repeat = true;
            }
        } while (!repeat);
    }
}

```

```

    }

    } while (repeat == false);

}

public void deleteMovie(String fileName) {
    FileManager file = new FileManager(fileName);
    file.deleteFile();
}

public void createPromotion() throws IOException {
    FileManager file = new FileManager("PromotionsList.txt");
    FoodCombo foodCombo = new FoodCombo(0, "", "", "", 0);
    boolean repeat = false;
    String name;
    String day;
    String answer;
    do {
        name = "Combo" + Integer.toString(foodCombo.menuCombo());
        day = in.getString("Enter the day promotion: ");
        answer = in.getStringAnswer("Add more movies[yes/no]: ");
        if ("no".equals(answer)) {
            repeat = true;
        }
    } while (repeat == false);
    promotion = new Promotion(name, day);
    file.writeFile(promotion.toString());
}

public void deletePromotion(String fileName) {
    FileManager file = new FileManager(fileName);
    file.deleteFile();
}
}

```

Package Model

Admin:

```

/*
 * To change this license header, choose License Headers in Project Properties.
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 */
package ec.edu.espe.cinemaboxoffice.model;

import ec.edu.espe.cinemaboxoffice.controller.RecordInformation;
import ec.edu.espe.cinemaboxoffice.utils.Keyboard;
import ec.edu.espe.cinemaboxoffice.utils.Screen;
import ec.edu.espe.filemanagerlibrary.FileManagerLib;
import java.io.IOException;

/**
 *
 * @author Kevin Chuquimarca ESPE-DCCO
 */
public class Admin {

    private String userName;

```

```

private int keyUser;

Keyboard in = new Keyboard();
Screen cls = new Screen();
RecordInformation infoRecord = new RecordInformation();

public Admin(String userName, int keyUser) {
    this.userName = userName = "Kevin";
    this.keyUser = keyUser = 123;
}

public void adminMenu() throws IOException {
    int option;
    boolean repeat = false;
    while (repeat == false) {
        System.out.println(" 1: Organize movie list \n 2: Organize promotions \n 3: Exit");
        option = in.getInt("Enter an option: ", 1);
        switch (option) {
            case 1:
                organizeMovieList();
                break;
            case 2:
                organizePromotions();
                break;
            case 3:
                repeat = true;
                break;
            default:
                System.out.println("Incorrect option");
                break;
        }
    }
}

public void enterUser() {
    String loginName;
    int keyUser2;
    do {
        loginName = in.getString("Username: ");
        if (!loginName.equals(userName)) {
            System.out.println("Incorrect Username. Please enter again");
        }
    } while (!loginName.equals(userName));

    do {
        keyUser2 = in.getInt("Password: ", 3);
    } while (keyUser2 != keyUser);
}

public void organizeMovieList() throws IOException {
    FileManagerLib file = new FileManagerLib("MovieList.txt");
    boolean repeat = false;
    int option;
    String fileName;
    do {
        System.out.println(" 1: Create Movie \n 2: Delete Movie \n 3: Exit");
        option = in.getInt("Enter an option: ", 1);

        switch (option) {

```

```

        case 1:
            infoRecord.createMovie();
            break;
        case 2:
            FileManagerLib.readFile();
            fileName = in.getString("enter the name of file for delete: ");
            infoRecord.deleteMovie(fileName + ".txt");
            break;
        case 3:
            repeat = true;
            break;
    }
} while (repeat == false);
}

public void organizePromotions() throws IOException {
    FileManagerLib file = new FileManagerLib("PromotionsList.txt");
    boolean repeat = false;
    String fileName;
    int option;
    do {
        System.out.println(" 1: Save Promotion \n 2: Delete Promotion \n 3: Exit");
        option = in.getInt("Enter an option: ", 1);

        switch (option) {
            case 1:
                infoRecord.createPromotion();
                break;
            case 2:
                FileManagerLib.readFile();
                fileName = in.getStringAnswer("you want to delete the promotion list[yes/no]: ");
                if ("yes".equals(fileName)) {
                    infoRecord.deletePromotion("PromotionsList.txt");
                }
                break;
            case 3:
                repeat = true;
                break;
        }
    } while (repeat == false);
}

/**
 * @return the loginName
 */
public String getUserLoginName() {
    return loginName;
}

/**
 * @param loginName the loginName to set
 */
public void setLoginName(String loginName) {
    this.loginName = loginName;
}

/**
 * @return the keyUser
 */
public int getKeyUser() {
    return keyUser;
}

```

```

    }

    /**
     * @param keyUser the keyUser to set
     */
    public void setKeyUser(int keyUser) {
        this.keyUser = keyUser;
    }
}

```

Bill:

```

/**
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package ec.edu.espe.cinemaboxoffice.model;

/**
 *
 * @author Kevin Chuquimarca ESPE-DCCO
 */
public class Bill {
    private Customer customer;
    private int idBill;
    private float priceToPay;
    private Payment payment;

    public Bill(Customer customer, int idBill, float priceToPay, Payment payment) {
        this.customer = customer;
        this.idBill = idBill;
        this.priceToPay = priceToPay;
        this.payment = payment;
    }

    public Customer getCustomer() {
        return customer;
    }

    public void setCustomer(Customer customer) {
        this.customer = customer;
    }

    public int getIdBill() {
        return idBill;
    }

    public void setIdBill(int idBill) {
        this.idBill = idBill;
    }

    public float getPriceToPay() {
        return priceToPay;
    }

    public void setPriceToPay(float priceToPay) {
        this.priceToPay = priceToPay;
    }
}

```



```

    }

    public Payment getPayment() {
        return payment;
    }

    public void setPayment(Payment payment) {
        this.payment = payment;
    }

    public void showBillData(){

    }

    public void saveBill(){

    }
}

```

Billboard:

```

/*
 * To change this license header, choose License Headers in Project Properties.
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 * and open the template in the editor.
 */
package ec.edu.espe.cinemaboxoffice.model;

import ec.edu.espe.cinemaboxoffice.utils.Keyboard;
import ec.edu.espe.cinemaboxoffice.utils.Screen;
import ec.edu.espe.filemanagerlibrary.FileManagerLib;
import java.io.File;
import java.io.IOException;

/**
 *
 * @author Kevin Chuquimarca ESPE-DCCO
 */
public class Billboard {

    private Room room;
    private Admin admin;

    Keyboard in = new Keyboard();
    Screen cls = new Screen();
    FileManagerLib fileManagerLib;
    Seat seat;
    Ticket ticket;

    public void billboardMenu() throws IOException {
        boolean repeat = false;
        String selection = "";
        int election;
        do {
            System.out.println("1: Search a movie \n 2: See Billboard \n 3: Promotions \n 4: Exit");
            int option = in.getInt("Please, enter an option: ", 1);
            switch (option) {
                case 1:
                    fileManagerLib = new FileManagerLib("MovieList.txt");
                    selection = in.getString("Search: ");
                    FileManagerLib.findRecord(selection);

```

```

        break;
    case 2:
        Screen.cleanScreen();
        checkEmptyness(selection);
        break;
    case 3:
        Screen.cleanScreen();
        showPromotions();
        election = in.getInt("choose the number of promotion[100n]: ", 4);
        choosePromotion(election);
        break;
    case 4:
        repeat = true;
        break;
    default:
        System.out.println("Incorrect option");
        break;
    }
} while (repeat == false);
}

public void checkEmptyness(String selection) {
    File f = new File("MovieList.txt");
    do {
        if (f.length() == 0) {
            System.out.println("No movies have been registered yet");
        } else {
            showMoviesList();
            selection = in.getString("What movie do you want to watch?: ");
            chooseMovie(selection);
        }
    } while (f.length() != 0);
}

public void showMoviesList() {
    fileManagerLib = new FileManagerLib("MovieList.txt");
    FileManagerLib.readFile();
}

public void showPromotions() {
    fileManagerLib = new FileManagerLib("PromotionsList.txt");
    FileManagerLib.readFile();
}

public void chooseMovie(String selection) {
    fileManagerLib = new FileManagerLib(selection + ".txt");
    FileManagerLib.readFile();
    Ticket.generateTicket(chooseSeat(selection), selection);
}

public void choosePromotion(int numberPromotion) {
    String selection = in.getString("choose the title movie: ");
    fileManagerLib = new FileManagerLib(selection + ".txt");
    FileManagerLib.readFile();
    Ticket.generateTicket(chooseSeat(selection), selection);
}

public String chooseSeat(String selection) {
    boolean repeat;
    String chosenSeat;
    int aux;

```

```

do {
    chosenSeat = in.getString("choose the number of seat: ");
    aux = Integer.parseInt(chosenSeat);
    if (aux > 0 & aux < 101) {
        System.out.println(aux);
        seat = new Seat(selection, chosenSeat, true);
        FileManagerLib.writeFile(seat.toString());
        repeat = true;

    } else {
        System.out.println(aux);
        System.out.println("incorrect number seat, please log in again");
        repeat = false;
    }
    System.out.println(repeat);
} while (repeat == false);
return chosenSeat;
}
}

```

Customer:

```

/*
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 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package ec.edu.espe.cinemaboxoffice.model;

import java.io.IOException;

/**
 *
 * @author Kevin Chuquimarca ESPE-DCCO
 */
public class Customer {

    private String cardNumber;
    private String id;
    private String name;
    private int age;

    public Customer(String cardNumber, String id, String name, int age) {
        this.cardNumber = cardNumber;
        this.id = id;
        this.name = name;
        this.age = age;
    }

    public Customer() {

    }

    @Override
    public String toString() {
        return "Customer{" + "cardNumber=" + cardNumber + ", id=" + id + ", name=" + name + ", age=" + age + '}';
    }
}

```

```

    public void enterBillboard() throws IOException{
        Billboard billboard = new Billboard();
        billboard.billboardMenu();
    }

    public void exitBillboard(){

    }

    public String getCardNumber() {
        return cardNumber;
    }

    public void setCardNumber(String cardNumber) {
        this.cardNumber = cardNumber;
    }

    public String getId() {
        return id;
    }

    public void setId(String id) {
        this.id = id;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public int getAge() {
        return age;
    }

    public void setAge(int age) {
        this.age = age;
    }

}

```

FoodCombo:

```

/*
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 * and open the template in the editor.
 */
package ec.edu.espe.cinemaboxoffice.model;

import ec.edu.espe.cinemaboxoffice.utils.Keyboard;
import java.util.ArrayList;

/**
 *
 * @author Kevin Chuquimarca ESPE-DCCO

```

```

*/
public class FoodCombo {

    private int numberCombo;
    private String drink;
    private String snack;
    private String fastFood;
    private float priceFood;

    public FoodCombo(int numberCombo, String drink, String snack, String fastFood, float priceFood) {
        this.numberCombo = numberCombo;
        this.drink = drink;
        this.snack = snack;
        this.fastFood = fastFood;
        this.priceFood = priceFood;
    }

    public int menuCombo() {
        Keyboard in = new Keyboard();
        ArrayList<FoodCombo> combos = new ArrayList<>();
        boolean repeat = false;
        int election;
        combos.add(new FoodCombo(1,"CocaCola", "1", "cangreburger", 2.50F));
        combos.add(new FoodCombo(2,"CocaCola", "2", "hot dog", 2.50F));
        combos.add(new FoodCombo(3,"CocaCola", "3", "pizza", 2.50F));
        combos.add(new FoodCombo(4,"CocaCola", "4", "chips", 2.50F));
        combos.add(new FoodCombo(5,"CocaCola", "5", "cangreburger", 2.50F));
        System.out.println(combos);
        do {
            election = in.getInt("Choose the number of combo: ", 1);
            if (election < 5 & election > 0) {
                combos.get(election);
                repeat = true;
            }
            else{
                System.out.println("The combo don't exist");
                repeat = false;
            }
        } while(repeat = false);
        return election;
    }

    @Override
    public String toString() {
        return "\n" + numberCombo + "," + drink + "," + snack + "," + fastFood + "," + priceFood;
    }
}

```

Movie:

```

/*
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 */
package ec.edu.espe.cinemaboxoffice.model;

/**
 *
 * @author Kevin Chuquimarca ESPE-DCCO

```

```

*/
public class Movie {

    private String movieTitle;
    private String movieGender;
    private int roomNumberForMovie;
    private String roomFormatForMovie;
    private float moviePrice;

    public Movie(String movieTitle, String movieGender, int roomNumberForMovie, String
roomFormatForMovie, float moviePrice) {
        this.movieTitle = movieTitle;
        this.movieGender = movieGender;
        this.roomNumberForMovie = roomNumberForMovie;
        this.roomFormatForMovie = roomFormatForMovie;
        this.moviePrice = moviePrice;
    }

    @Override
    public String toString() {
        return movieTitle + "," + movieGender + "," + roomNumberForMovie + "," + roomFormatForMovie
+ "," + moviePrice;
    }

    public String getMovieTitle() {
        return movieTitle;
    }

    public void setMovieTitle(String movieTitle) {
        this.movieTitle = movieTitle;
    }

    public String getMovieGender() {
        return movieGender;
    }

    public void setMovieGender(String movieGender) {
        this.movieGender = movieGender;
    }

    public int getRoomNumberForMovie() {
        return roomNumberForMovie;
    }

    public void setRoomNumberForMovie(int roomNumberForMovie) {
        this.roomNumberForMovie = roomNumberForMovie;
    }

    public String getRoomFormatForMovie() {
        return roomFormatForMovie;
    }

    public void setRoomFormatForMovie(String roomFormatForMovie) {
        this.roomFormatForMovie = roomFormatForMovie;
    }

    public float getMoviePrice() {
        return moviePrice;
    }

    public void setMoviePrice(float moviePrice) {

```

```
        this.moviePrice = moviePrice;
    }
}
```

Payment:

```
/*
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 * and open the template in the editor.
 */
package ec.edu.espe.cinemaboxoffice.model;

import ec.edu.espe.cinemaboxoffice.utils.Keyboard;
import ec.edu.espe.cinemaboxoffice.utils.Validation;
import ec.edu.espe.filemanagerlibrary.FileManagerLib;
import java.io.IOException;

/**
 *
 * @author Kevin Chuquimarca ESPE-DCCO
 */
public class Payment {
    private Customer customer;
    //private String card;

    Keyboard in = new Keyboard();
    FileManagerLib file;

    public void createPayment() throws IOException{

        boolean repeat = false;
        String cardNumber;
        String customerId;
        String customerName;
        int customerAge;
        file = new FileManagerLib("Bill.txt");

        do{
            cardNumber = in.getString("Enter your card number: ");
            customerId = in.getString("Enter your ID: ");
            customerName = in.getString("Enter your name: ");
            customerAge = in.getInt("Enter your age", 2);
            customer = new Customer(cardNumber, customerId, customerName, customerAge);
            System.out.println(file.writeFile(customer.toString()));

        }while(repeat == false);
    }

    public void cancelPay(){

    }
}
```

PremierMovie:

```
/*
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```

* To change this template file, choose Tools | Templates
* and open the template in the editor.

```
*/  
package ec.edu.espe.cinemaboxoffice.model;
```

```
/**  
 *  
 * @author Kevin Chuquimarca ESPE-DCCO  
 */
```

```
public class PremierMovie {  
    private String titlePremierMovie;  
    private String datePremier;  
}
```

PricePurchase:

```
/*  
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 * To change this template file, choose Tools | Templates  
 * and open the template in the editor.
```

```
*/  
package ec.edu.espe.cinemaboxoffice.model;
```

```
/**  
 *  
 * @author Kevin Chuquimarca ESPE-DCCO  
 */
```

```
public class PricePurchase {  
    private float pricePurchase;  
    private int numberTickets;  
    private String typePromotion;  
  
    Bill bills;  
  
    public static void calculatePriceTicket(String ticketData){  
  
    }  
  
    public void calculatePricePromotion(){  
  
    }  
}
```

Promotion:

```
/*  
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 * and open the template in the editor.
```

```
*/  
package ec.edu.espe.cinemaboxoffice.model;
```

```
/**  
 *  
 * @author Kevin Chuquimarca ESPE-DCCO  
 */  
public class Promotion{  
  
    private static int indexEnumerator = 1000;  
    private int keyPromotion;  
    private String namePromotion;
```



```

private String dayPromotion;
private float pricePromotionFood;
private Ticket ticket;

private PricePurchase pricePurchases[];
private FoodCombo foodCombos[];

public Promotion(String namePromotion, String dayPromotion) {
    this.keyPromotion = indexEnumerator + 1;
    indexEnumerator = indexEnumerator + 1;
    this.namePromotion = namePromotion;
    this.dayPromotion = dayPromotion;
}

public void showPromotionData(){

}

@Override
public String toString() {
    return keyPromotion + "," + namePromotion + "," + dayPromotion + "," + pricePromotionFood;
}

/**
 * @return the indexEnumerator
 */
public static int getIndexEnumerator() {
    return indexEnumerator;
}

/**
 * @param aIndexEnumerator the indexEnumerator to set
 */
public static void setIndexEnumerator(int aIndexEnumerator) {
    indexEnumerator = aIndexEnumerator;
}

/**
 * @return the keyPromotion
 */
public int getKeyPromotion() {
    return keyPromotion;
}

/**
 * @param keyPromotion the keyPromotion to set
 */
public void setKeyPromotion(int keyPromotion) {
    this.keyPromotion = keyPromotion;
}

/**
 * @return the namePromotion
 */
public String getNamePromotion() {
    return namePromotion;
}

/**
 * @param namePromotion the namePromotion to set
 */

```

```

public void setNamePromotion(String namePromotion) {
    this.namePromotion = namePromotion;
}

/**
 * @return the dayPromotion
 */
public String getDayPromotion() {
    return dayPromotion;
}

/**
 * @param dayPromotion the dayPromotion to set
 */
public void setDayPromotion(String dayPromotion) {
    this.dayPromotion = dayPromotion;
}

/**
 * @return the pricePromotionFood
 */
public float getPricePromotionFood() {
    return pricePromotionFood;
}

/**
 * @param pricePromotionFood the pricePromotionFood to set
 */
public void setPricePromotionFood(float pricePromotionFood) {
    this.pricePromotionFood = pricePromotionFood;
}

/**
 * @return the ticket
 */
public Ticket getTicket() {
    return ticket;
}

/**
 * @param ticket the ticket to set
 */
public void setTicket(Ticket ticket) {
    this.ticket = ticket;
}

/**
 * @return the pricePurchases
 */
public PricePurchase[] getPricePurchases() {
    return pricePurchases;
}

/**
 * @param pricePurchases the pricePurchases to set
 */
public void setPricePurchases(PricePurchase[] pricePurchases) {
    this.pricePurchases = pricePurchases;
}

/**

```

```

    * @return the foodCombos
    */
    public FoodCombo[] getFoodCombos() {
        return foodCombos;
    }

    /**
     * @param foodCombos the foodCombos to set
     */
    public void setFoodCombos(FoodCombo[] foodCombos) {
        this.foodCombos = foodCombos;
    }
}

```

Room:

```

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package ec.edu.espe.cinemaboxoffice.model;

import java.util.ArrayList;

/**
 *
 * @author Kevin Chuquimarca ESPE-DCCO
 */
public class Room {

    private int numberRoom;
    private int numberSeats;
    private String formatRoom;
    private float priceTypeRoom;

    public Room(int numberRoom, int numberSeats, String formatRoom, float priceTypeRoom) {

        this.numberRoom = numberRoom;
        this.numberSeats = numberSeats;
        this.formatRoom = formatRoom;
        this.priceTypeRoom = priceTypeRoom;
    }

    public Room() {
    }

    public void showDataRoom() {
        ArrayList<Room> rooms = new ArrayList<>();
        for (int i = 0; i<3; i++){
            rooms.add(new Room(i+1, 100, "2D", 3.50f));
            rooms.add(new Room(4+i, 100, "3D", 5.0f));
        }
        System.out.println(rooms);
    }

    @Override
    public String toString() {

```

```

        return "\nnumberRoom=" + numberRoom + ", numberSeats=" + numberSeats + ", formatRoom="
+ formatRoom + ", priceTypeRoom=" + priceTypeRoom;
    }

    public int getNumberRoom() {
        return numberRoom;
    }

    public void setNumberRoom(int numberRoom) {
        this.numberRoom = numberRoom;
    }

    public int getNumberSeats() {
        return numberSeats;
    }

    public void setNumberSeats(int numberSeats) {
        this.numberSeats = numberSeats;
    }

    public String getFormatRoom() {
        return formatRoom;
    }

    public void setFormatRoom(String formatRoom) {

        this.formatRoom = formatRoom;
    }

    public float getPriceTypeRoom() {
        return priceTypeRoom;
    }

    public void setPriceTypeRoom(float priceTypeRoom) {
        this.priceTypeRoom = priceTypeRoom;
    }
}

```

Seat:

```

/*
 * To change this license header, choose License Headers in Project Properties.
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 * and open the template in the editor.
 */
package ec.edu.espe.cinemaboxoffice.model;

/**
 *
 * @author Kevin Chuquimarca ESPE-DCCO
 */
public class Seat{

    private String seatMovie;
    private String numberSeat;
    private boolean freeOrOccupied;
    private float priceSeat;
    private float priceSeatVPI;

    public Seat(String seatMovie, String numberSeat, boolean freeOrOccupied) {
        this.seatMovie = seatMovie;
    }
}

```

```

        this.numberSeat = numberSeat;
        this.freeOrOccupied = freeOrOccupied;
    }

    @Override
    public String toString() {
        return seatMovie + "," + numberSeat + "," + freeOrOccupied;
    }

    /**
     * @return the seatMovie
     */
    public String getSeatMovie() {
        return seatMovie;
    }

    /**
     * @param seatMovie the seatMovie to set
     */
    public void setSeatMovie(String seatMovie) {
        this.seatMovie = seatMovie;
    }

    /**
     * @return the numberSeat
     */
    public String getNumberSeat() {
        return numberSeat;
    }

    /**
     * @param numberSeat the numberSeat to set
     */
    public void setNumberSeat(String numberSeat) {
        this.numberSeat = numberSeat;
    }

    /**
     * @return the freeOrOccupied
     */
    public boolean isFreeOrOccupied() {
        return freeOrOccupied;
    }

    /**
     * @param freeOrOccupied the freeOrOccupied to set
     */
    public void setFreeOrOccupied(boolean freeOrOccupied) {
        this.freeOrOccupied = freeOrOccupied;
    }

    /**
     * @return the priceSeat
     */
    public float getPriceSeat() {
        return priceSeat;
    }

    /**
     * @param priceSeat the priceSeat to set
     */

```

```

    public void setPriceSeat(float priceSeat) {
        this.priceSeat = priceSeat;
    }

    /**
     * @return the priceSeatVPI
     */
    public float getPriceSeatVPI() {
        return priceSeatVPI;
    }

    /**
     * @param priceSeatVPI the priceSeatVPI to set
     */
    public void setPriceSeatVPI(float priceSeatVPI) {
        this.priceSeatVPI = priceSeatVPI;
    }
}

```

Ticket:

```

/**
 * To change this license header, choose License Headers in Project Properties.
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 * and open the template in the editor.
 */
package ec.edu.espe.cinemaboxoffice.model;

/**
 *
 * @author Kevin Chuquimarca ESPE-DCCO
 */
public class Ticket {

    private static int indexCounter = 1000;
    private int key;
    private String seat;
    private String titleMovie;
    private String roomAssignment;
    private float priceTicket;

    private PricePurchase pricePurchase;

    public Ticket(String seat, String titleMovie, String roomAssignment, float priceTicket) {
        this.key = indexCounter + 1;
        indexCounter = indexCounter + 1;
        this.seat = seat;
        this.titleMovie = titleMovie;
        this.roomAssignment = roomAssignment;
        this.priceTicket = priceTicket;
    }

    @Override
    public String toString() {
        return "Ticket{" + "key=" + getKey() + ", seat=" + getSeat() + ", titleMovie=" + getTitleMovie() +
            ", roomAssignment=" + getRoomAssignment() + ", priceTicket=" + getPriceTicket() + ", pricePurchase="
            + getPricePurchase() + '}';
    }

    public static void generateTicket(String seat, String selection) {
        Ticket ticket = new Ticket(seat, selection, "", 0);
    }
}

```

```

        ticket.showDataTicket();
        PricePurchase.calculatePriceTicket(ticket.toString());
    }

    public void showDataTicket(){
        System.out.println(toString());
    }

    /**
     * @return the indexCounter
     */
    public static int getIndexCounter() {
        return indexCounter;
    }

    /**
     * @param aIndexCounter the indexCounter to set
     */
    public static void setIndexCounter(int aIndexCounter) {
        indexCounter = aIndexCounter;
    }

    /**
     * @return the key
     */
    public int getKey() {
        return key;
    }

    /**
     * @param key the key to set
     */
    public void setKey(int key) {
        this.key = key;
    }

    /**
     * @return the seat
     */
    public String getSeat() {
        return seat;
    }

    /**
     * @param seat the seat to set
     */
    public void setSeat(String seat) {
        this.seat = seat;
    }

    /**
     * @return the titleMovie
     */
    public String getTitleMovie() {
        return titleMovie;
    }

    /**
     * @param titleMovie the titleMovie to set
     */
    public void setTitleMovie(String titleMovie) {

```

```

        this.titleMovie = titleMovie;
    }

    /**
     * @return the roomAssignment
     */
    public String getRoomAssignment() {
        return roomAssignment;
    }

    /**
     * @param roomAssignment the roomAssignment to set
     */
    public void setRoomAssignment(String roomAssignment) {
        this.roomAssignment = roomAssignment;
    }

    /**
     * @return the priceTicket
     */
    public float getPriceTicket() {
        return priceTicket;
    }

    /**
     * @param priceTicket the priceTicket to set
     */
    public void setPriceTicket(float priceTicket) {
        this.priceTicket = priceTicket;
    }

    /**
     * @return the pricePurchase
     */
    public PricePurchase getPricePurchase() {
        return pricePurchase;
    }

    /**
     * @param pricePurchase the pricePurchase to set
     */
    public void setPricePurchase(PricePurchase pricePurchase) {
        this.pricePurchase = pricePurchase;
    }
}

```

KeyBoard:

```

/**
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 * and open the template in the editor.
 */
package ec.edu.espe.cinemaboxoffice.utils;

import java.util.Scanner;

/**
 *

```



```

* @author Kevin Chuquimarca ESPE-DCCO
*/
public class Keyboard {

    Scanner string;

    Validation validate = new Validation();

    public Keyboard() {
        string = new Scanner(System.in);
    }

    public String getString(String title) {
        String data = "";
        while (data.equals("")) {
            System.out.println(title);
            data = string.nextLine();
            if (!data.matches("^[ A-Za-z0-9]+$")){
                data = "";
                System.out.println("Special Characters Not Allowed");
            }
        }
        validate.checkCard(data);
        return data;
    }

    public String getStringAnswer(String title) {
        String data = "";
        while (data.equals("")) {
            System.out.print(title);
            data = string.nextLine();
            if (!"yes".equals(data) & !"no".equals(data)) {
                data = "";
            }
        }
        return data;
    }

    public int getInt(String title, int characters) {
        String data = "";
        while (data.equals("")) {
            System.out.println(title);
            data = string.nextLine();
            if (!data.matches("[0-9]{" + characters + "}")) {
                data = "";
                System.out.println("\nIncorrect data, please repeat the ");
            }
        }
        return Integer.parseInt(data);
    }

    public float getFloat(String title, int characters) {
        String data = "";
        while (data.equals("")) {
            System.out.println(title);
            data = string.nextLine();
            if (!data.matches("[0-9][,]{" + characters + "}")) {
                data = "";
            }
        }
        return Float.parseFloat(data);
    }
}

```

```
}  
}
```

Screen:

```
/*  
 * To change this license header, choose License Headers in Project Properties.  
 * To change this template file, choose Tools | Templates  
 * and open the template in the editor.  
 */  
package ec.edu.espe.cinemaboxoffice.utils;  
  
/**  
 *  
 * @author Gabriel Aguirre  
 */  
public class Screen {  
    public static void cleanScreen(){  
        try{  
            new ProcessBuilder("cmd", "/c","cls").inheritIO().start().waitFor();  
        }catch(Exception e){  
            System.out.println(e);  
        }  
    }  
}
```

Validation

```
/*  
 * To change this license header, choose License Headers in Project Properties.  
 * To change this template file, choose Tools | Templates  
 * and open the template in the editor.  
 */  
package ec.edu.espe.cinemaboxoffice.utils;  
  
import java.util.StringTokenizer;  
  
/**  
 *  
 * @author Gabriel Aguirre  
 */  
public class Validation {  
  
    /*  
    String card;  
    boolean valid;  
    valid=Validation.checkCard(card);  
    if(valid){  
        System.out.println("the card is : " +card);  
    }  
    */  
    public static boolean checkCard(String card) {  
        if (card.length() != 16) {  
            return false;  
        }  
        int number = 0, sum = 0;  
        for (int i = 0; i < 16; i++) {  
            if (i % 2 == 0) {  
                number = Integer.valueOf(card.charAt(i)) * 2;  
                if (number >= 10) {
```

```

        number = (number - 10) + 1;
    }
}
number = Integer.valueOf(card.charAt(i));
sum = sum + number;
}
if (sum % 10 == 0) {
    return true;
} else {
    return false;
}
}
}

/*
String identificationCard;
boolean valid;
valid=validation.verifyID(identificationCard);
if(valid){
    System.out.println("the identificationCard is : " +identificationCard);
}
else
    System.out.println("the identificationCard is incorrect : ");
*/

public static boolean validateCI(String CI) {
    if (CI.length() != 10) {
        return false;
    }
    for (int i = 0; i < 10; i++) {
        if (!Character.isDigit(CI.charAt(i))) {
            return false;
        }
    }
}

int lastDigit = Character.getNumericValue((CI.charAt(CI.length() - 1)));
int digit;
int sumPairs = 0;
int oddSum = 0;

for (int i = 0; i < 9; i++) {
    digit = Character.getNumericValue(CI.charAt(i));

    if ((i + 1) % 2 == 0) {
        sumPairs += digit;
    } else {
        oddSum += (digit * 2) > 9 ? (digit * 2) - 9 : (digit * 2);
    }
}

int total = sumPairs + oddSum;
int higher = (10 - (total % 10)) + total;

if ((total % 10) == 0) {
    return lastDigit == 0;
}

return lastDigit == (higher - total);
}

public static boolean validateTime(String time) {
    if (time.length() < 0) {
        return false;
    }
}

```



```

*/
package ec.edu.espe.cinemaboxoffice.view;

import ec.edu.espe.cinemaboxoffice.utils.Keyboard;
import ec.edu.espe.cinemaboxoffice.utils.Screen;
import java.io.IOException;

/**
 *
 * @author Kevin Chuquimarca ESPE-DCCO
 */
public class TicketSystem {

    public static void main(String[] args) throws IOException {

        Cover cover = new Cover();
        cover.cover();

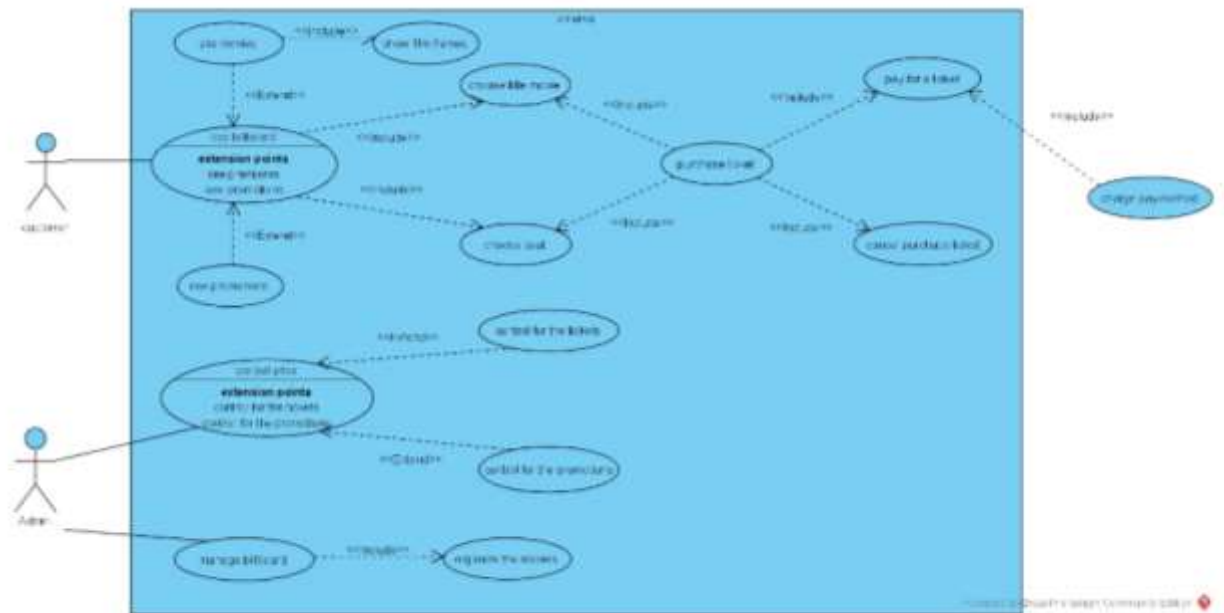
        Keyboard in = new Keyboard();
        Screen cls = new Screen();
        AdminSystem adminSystem = new AdminSystem();
        CustomerSystem customerSystem = new CustomerSystem();

        boolean repeat = false;

        do {
            System.out.println("----CINEMA BOX OFFICE----");
            System.out.println(" 1: Admin \n 2: Customer \n 3: Exit");
            int option2 = in.getInt("Enter an option: ", 1);
            /**<<<<<<< HEAD
=====
>>>>>>> 544bcb6c4b459c37ff6db3cf81c860801f613952*/
            switch (option2) {
                case 1:
                    cls.cleanScreen();
                    adminSystem.manager();
                    break;
                case 2:
                    cls.cleanScreen();
                    customerSystem.buyer();
                    break;
                case 3:
                    repeat = true;
                    break;
                default:
                    System.out.println("Incorrect option");
                    break;
            }
        } while (repeat == false);
    }
}

```

Diagram Use Case



Class Diagram

