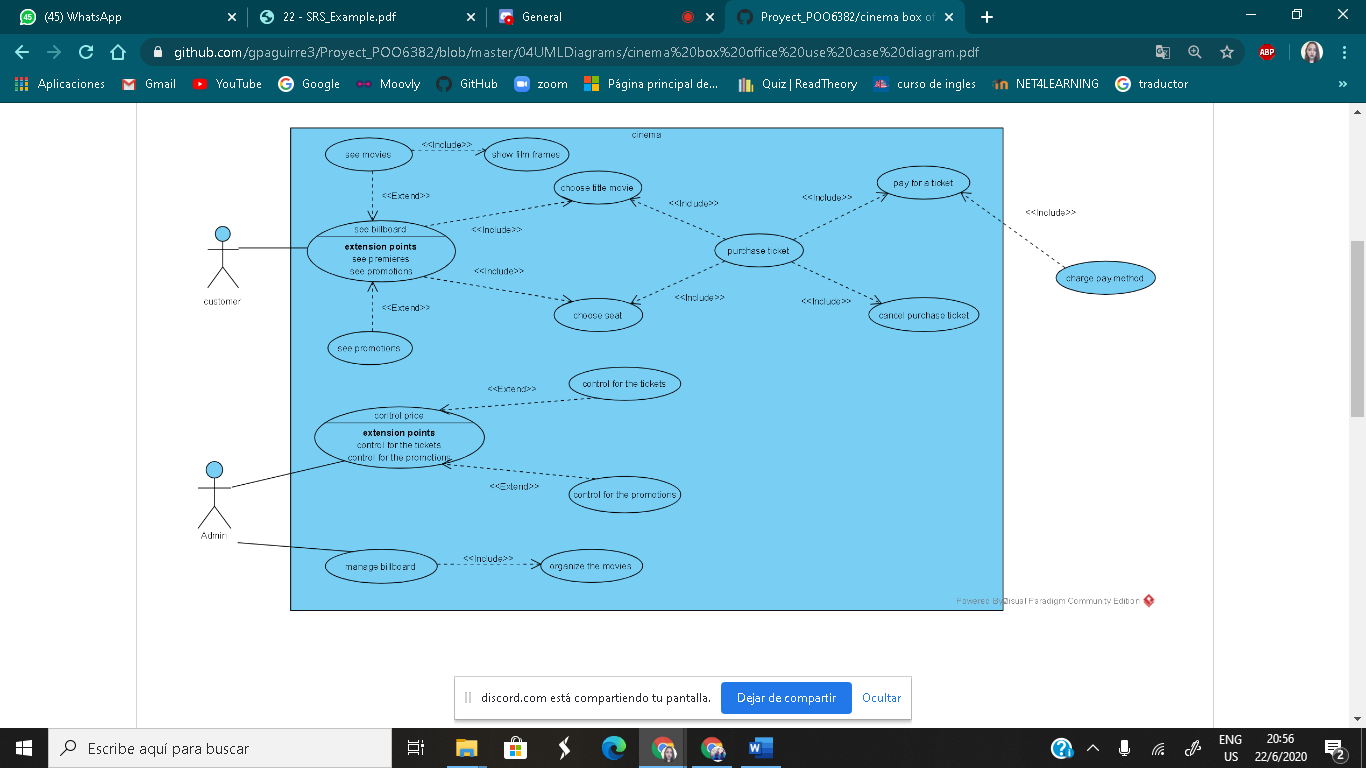
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| **White Box Test** |
| “CINEMA BOX OFFICE(ONLINE)” |
| Versión 1.1 |
|  |
| **Members:**  Aguirre Gabriel  Alemán Josué  Chicaiza Jhoel  Chuquimarca Kevin  Clavijo Alisson  **TUTOR:**  Ing. Edison Lascano  **Date : 2020-06-25** |

## CINEMA BOX OFFICE(ONLINE)

**SOURCE CODE**

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| --- |
| **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:  /\*  \* 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 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 == 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.  \* To change this template file, choose Tools | Templates  \* and open the template in the editor.  \*/  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 getUserName() {  return userName;  }  /\*\*  \* @param userName the loginName to set  \*/  public void setUserName(String userName) {  this.userName = userName;  }  /\*\*  \* @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.  \* To change this template file, choose Tools | Templates  \* 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:  /\*  \* 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.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:  /\*  \* 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 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:  /\*  \* 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 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:  /\*  \* 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 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:  /\*  \* 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 PremierMovie {  private String titlePremierMovie;  private String datePremier;  }  PricePurchase:  /\*  \* 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 PricePurchase {  private float pricePurchase;  private int numberTickets;  private String typePromotion;    Bill bills;    public static void calculatePriceTicket(String ticketData){    }    public void calculatePricePromotion(){    }  }  Promotion:  /\*  \* 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 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.  \* 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 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.  \* 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 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:  /\*  \* 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.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 ir : " +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;  }  return true;  }  public static boolean validateWord(final String word) {  final String character = "1234567890}{,.+-=)(Â¿?Â¡!#@$%&/'\*";  StringTokenizer compareWord = new StringTokenizer(character, word);  String ret = compareWord.hasMoreTokens() ? character.substring(compareWord.nextToken().length()) : null;  return false;  }  }  AdminSystem:  /\*  \* 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.view;  import ec.edu.espe.cinemaboxoffice.model.Admin;  import java.io.IOException;  /\*\*  \*  \* @author Kevin Chuquimarca ESPE-DCCO  \*/  public class AdminSystem {  public void manager() throws IOException {  Admin admin = new Admin("", 0);  admin.enterUser();  admin.adminMenu();  }  }  Cover:  /\*  \* 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.view;  /\*\*  \*  \* @author Josue  \*/  public class Cover {    public void cover(){    System.out.println("(= =) =) =) =) =) =) =) =) =) =) =) =) =) =) =) =) =) =) =) =) =)");  System.out.println("(= =)");  System.out.println("(= =)");  System.out.println("(= =)");  System.out.println("(= =)");  System.out.println("(= UNIVERSIDAD DE LAS FUERZAS ARMADAS - ESPE =)");  System.out.println("(= =)");  System.out.println("(= =)");  System.out.println("(= MEMBERS: GABRIEL AGUIRRE, JOSUE ALEMAN =)");  System.out.println("(= JOHEL CHICAIZA, ALISSON CLAVIJO, KEVIN CHUQUIMARCA =)");  System.out.println("(= =)");  System.out.println("(= OBJECT ORIENTED PROGRAMMING =)");  System.out.println("(= CAREER, NRC: SOFTWARE, 6382 =)");  System.out.println("(= =)");  System.out.println("(= TEACHING: EDISON LASCANO PHD =)");  System.out.println("(= =)");  System.out.println("(= SI 2020 =)");  System.out.println("(= =)");  System.out.println("(= =)");  System.out.println("(= =)");  System.out.println("(= =)");  System.out.println("(= =) =) =) =) =) =) =) =) =) =) =) =) =) =) =) =) =) =) =) =) =)");  System.out.println("\n\n");  }    }  Customer:  /\*  \* 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.view;  import ec.edu.espe.cinemaboxoffice.model.Customer;  import java.io.IOException;  /\*\*  \*  \* @author Kevin Chuquimarca ESPE-DCCO  \*/  public class CustomerSystem {    public void buyer() throws IOException{  Customer customer = new Customer();  customer.enterBillboard();  }  }  TicketSystem:  /\*  \* 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.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

