FACULTY OF COMPUTER & MATHEMATICAL SCIENCES

CS240

BACHELOR OF INFORMATION TECHNOLOGY (HONS)

CSC435 – OBJECT-ORIENTED PROGRAMMING

GUI PROJECT - CINEMA TICKETING SYSTEM

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CLASS : RCS240 2A

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1.0 Introduction

This document fully and formally describes the requirements of the proposed said project system. It sets out the functional and non-functional requirements and includes a description of the user interface and documentation and training requirements. Cinema Ticketing System is based on a concept to maintain order and management of a cinema. By using this system, the user can maintain ordering records of a day. The system displays a list of availability of seats and the user must place an order with item quantity. After that, the user proceeds towards Order confirmation and full payment.

This project is developed in Eclipse IDE using JAVA language. The advantage that the user has is gaining full control of the system. The user can order tickets for the movie that they are interested in choose what type of seats and also date and time. After confirming the order, the user will have to pay as shown on the receipt that has been printed.

This system is the need and necessity of every organization and its human resource systems. With Cinema Ticketing System. The employee information and their details are efficiently managed to satisfy the needs of both the employees and the administrator.

1.1 Objective

i. To develop a system named “Cinema Ticketing System” which can suggest any type of movies that showing in the cinema.

ii. To develop a system which can suggest date, movie time, type of seat and ticket type.

iii. To create the ticket system that contain type of movie, date, time, hall, ticket type, seat, tax, subtotal, and total price of the ticket.

1.2 Project Scope

1.2.1 User Scope

i. Users can choose any types of movies that they want to watch such as Musyrik, Mat Kilau, Jurassic World, and others.

ii. Users can choose the suitable date, movie time and choose seat single or twin.

iii. Users can choose and click at ticket type such as single or twin for adult and kids. It will display

the ticket system and the total price of the ticket.

1.2.2 System Scope

i. Cinema Ticketing System include movies type, date, movie time, seat type and ticket type.

ii. Our system will display the ticket system of movie type, reference, date, time, hall, ticket type,

seat, tax, subtotal, and the total price of the ticket.

1.3 STUDENT JOB TASKS

NAME	TASK
Nur Afifah Binti Mohd Nizam	• Determine input, output and process needed by system in Chapter 2. • Creating Flowchart in Chapter 3.
Nurul Qistina Binti Osman Talib	• Source code in Chapter 2. • Put sample input / output in Chapter 5. • Creating the "Cinema Ticketing System" using JCreator.
Nurul Hidayah Binti Kama Azmal	• Objective in Chapter 1. • Scope of the system in Chapter 1. • Student job tasks in Chapter 1.
Muhammad Alif Haikal Bin Mohd Tajudin	• Introduction in Chapter 1. • User manual in Chapter 5.

2.0 Project Analysis

2.1 Overview

The input-process-output (IPO) model is a method that is widely employed in systems analysis to characterize the structure of an information processing programmed or another process. The most basic foundation for creating a process is typically presented as this in introductory programming and systems analysis classes.

2.2 Discussion

The input-process-output paradigm describes how a computer programmed or any other sort of process receives inputs from a user or other source, processes those inputs to produce calculations, and finally returns the calculated results. That programmed will divide by three groups such as input, output and process.

2.3 Input

All object-oriented programming languages accept inputs. An input is a piece of data that is sent to or received by a computer. This could entail the user pressing a key on a keyboard or selecting an item. Other inputs provide the computer data to process while others give instructions on what to do. Humans are not required to always start inputs. As an example, a computer might obtain a message from another device, get data from a temperature sensor, or input data using programming languages. Data entered into a programmed, whether manually by the programmer or digitally, is referred to as an input. Then, our team uses Eclipse IDE to store user data for our Graphical user interface (GUI) system in this system. There are several data that we put in our system such as:

- Movie Name
- Booking Date
- Time
- Ticket Type
- Seat
- Total Price
- Payment

2.4 Output

Data from the programmed is displayed to the user either visually on the screen or physically as printouts or signals. For instance, output refers to any data that a computer processes and sends out. The outputs that the user receives can take many different forms, such as text on a screen or in the documents. Users will be able to view the outcomes of their movie ticket booking system and users can see the copy of the receipt after finish booking. There are several data that users must follow in our system such as:

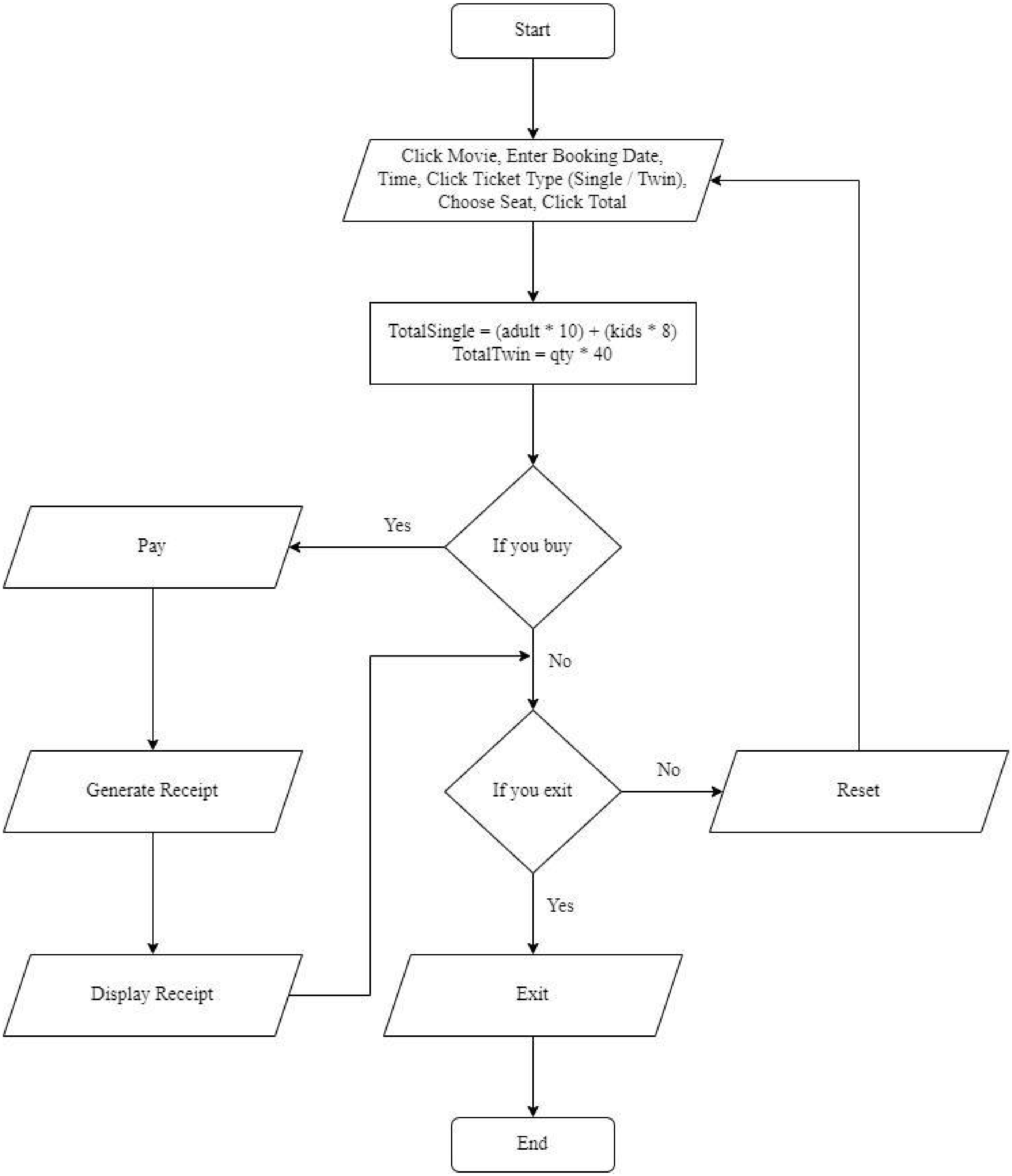
- Movie Name
- Booking Date
- Time
- Ticket Type
- Seat
- Total Price
- Payment

2.5 Process

A programmed contains the set of instructions that describe the process in detail. A process is a single instance of software operating on a computer. This is equivalent in meaning to the term "task," which is used in several operating systems. Under Eclipse or JCreator, and some other operating systems, a process is started when a programmed is launched (either by a user entering a shell command or by another programmed). In addition, the process of developing the system can be carried out by using a program like Eclipse or JCreator and writing the coding for the source code function. The process of creating the system can demonstrate very smoothly and can detect the fault in the source code.

3.0 PROJECT DESIGN

3.1 FLOWCHART


Start
Click Movie, Enter Booking Date, Time, Click Ticket Type (Single / Twin), Choose Seat, Click Total
TotalSingle = (adult * 10) + (kids * 8)
TotalTwin = qty * 40
If you buy
Yes
Pay
No
Generate Receipt
Display Receipt
If you exit
No
Reset
Yes
Exit
End

4.0 PROJECT IMPLEMENTATION

4.1 SOURCE CODE

```
//WARNING!
//WARNING!
//WARNING! = Read the note line 173 until 296

import java.awt.EventQueue;

import javax.swing.JFrame;
import javax.swing.JTextField;
import javax.swing.JPanel;
import javax.swing.border.BevelBorder;
import java.awt.Color;
import javax.swing.JLabel;
import java.awt.Font;
import javax.swing.JSeparator;
import javax.swing.SwingConstants;
import javax.swing.JSpinner;
import javax.swing.border.LineBorder;
import javax.swing.JRadioButton;
import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
import javax.swing.ButtonGroup;
import java.awt.Component;
import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
import  javax.swing.JTextArea;
import javax.swing.JCheckBox;
import javax.swing.ImageIcon;
import java.awt.SystemColor;
import javax.swing.border.EtchedBorder;

public class Cinema {

	private JFrame frame;
	private final ButtonGroup buttonType = new ButtonGroup();
	private final ButtonGroup buttonTime = new ButtonGroup();
	private final ButtonGroup buttonMovie = new ButtonGroup();
	private JTextField textTax;
	private JTextField textSubTotal;
	private JTextField textTotal;
	protected Component rdbtnTwin;
	protected Component spinnerTwin;
	protected Component spinnerAldult;
	protected Component spinnerKids;
	protected String iTax;
	protected String iSubTotal;
	protected String iTotal;
	protected String Time;
	protected String type;
protected String movie;
protected double total;
protected  Component  A1,A2,A3,A4,A5,A6,A7,A8;
protected Component B1,B2,B3,B4,B5,B6,B7,B8;
protected Component C1,C2,C3,C4,C5,C6,C7,C8;
protected Component T1,T2,T3,T4;
protected String result;
private JTextField txtdate;

/**
 * Launch the application.
 */
public static void main(String[] args)
        { EventQueue.invokeLater(new Runnable()
        {
                public void run() {
                        try {
                                Cinema window = new Cinema();
                                window.frame.setVisible(true);
                        } catch (Exception e) {
                                e.printStackTrace();
                        }
                }
        });
}

/**
 * Create the application.
 */
public Cinema() {
        initialize();

}

/**
 * Initialize the contents of the frame.
 */
private void initialize() {
        frame = new JFrame();
        frame.getContentPane().setBackground(Color.BLACK);
        frame.setBackground(SystemColor.menu);
        frame.getContentPane().setEnabled(false);
        frame.setBounds(30, 10, 1450, 800);
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        frame.getContentPane().setLayout(null);

        JLabel lblBlack = new JLabel("The Black Phone (18)");
        lblBlack.setBackground(Color.BLACK);
        lblBlack.setHorizontalAlignment(SwingConstants.CENTER);
        lblBlack.setForeground(Color.WHITE);
        lblBlack.setFont(new Font("Sitka Text", Font.BOLD, 12));
        lblBlack.setBounds(10, 709, 171, 31);
        frame.getContentPane().add(lblBlack);
```

```
JLabel lblMatKilau = new JLabel("Mat Kilau (P13)");
lblMatKilau.setBackground(Color.BLACK);
lblMatKilau.setHorizontalAlignment(SwingConstants.CENTER);
lblMatKilau.setForeground(Color.WHITE);
lblMatKilau.setFont(new Font("Sitka Text", Font.BOLD, 12));
lblMatKilau.setBounds(191, 405, 171, 31);
frame.getContentPane().add(lblMatKilau);

JLabel lblIblis = new JLabel("Iblis Dalam Kandungan(18)");
lblIblis.setHorizontalAlignment(SwingConstants.CENTER);
lblIblis.setForeground(Color.WHITE);
lblIblis.setFont(new Font("Sitka Text", Font.BOLD, 11));
lblIblis.setBackground(Color.BLACK);
lblIblis.setBounds(10, 250, 171, 31);
frame.getContentPane().add(lblIblis);

JLabel lblMovieTicketBooking = new JLabel("Movie Ticket Booking System");
lblMovieTicketBooking.setHorizontalAlignment(SwingConstants.CENTER);
lblMovieTicketBooking.setForeground(Color.RED);
lblMovieTicketBooking.setFont(new Font("Sitka Text", Font.BOLD, 45));
lblMovieTicketBooking.setBounds(10, 33, 1416, 58);
frame.getContentPane().add(lblMovieTicketBooking);

JLabel lblMusyrik = new JLabel("Musyrik (P13)");
lblMusyrik.setBackground(Color.BLACK);
lblMusyrik.setHorizontalAlignment(SwingConstants.CENTER);
lblMusyrik.setForeground(Color.WHITE);
lblMusyrik.setFont(new Font("Sitka Text", Font.BOLD, 12));
lblMusyrik.setBounds(191, 250, 171, 31);
frame.getContentPane().add(lblMusyrik);

JLabel lblJurassicWorldDominion = new JLabel("Jurassic World: Dominion (P13)");
lblJurassicWorldDominion.setBackground(Color.BLACK);
lblJurassicWorldDominion.setHorizontalAlignment(SwingConstants.CENTER);
lblJurassicWorldDominion.setForeground(Color.WHITE);
lblJurassicWorldDominion.setFont(new Font("Sitka Text", Font.BOLD, 10));
lblJurassicWorldDominion.setBounds(10, 557, 171, 31);
frame.getContentPane().add(lblJurassicWorldDominion);

JLabel lblElvis = new JLabel("Elvis (P13)");
lblElvis.setBackground(Color.BLACK);
lblElvis.setHorizontalAlignment(SwingConstants.CENTER);
lblElvis.setForeground(Color.WHITE);
lblElvis.setFont(new Font("Sitka Text", Font.BOLD, 12));
lblElvis.setBounds(191, 557, 171, 31);
frame.getContentPane().add(lblElvis);

JLabel lblMinion = new JLabel("Minions: The Rise Of Gru (P13)");
lblMinion.setBackground(Color.BLACK);
lblMinion.setHorizontalAlignment(SwingConstants.CENTER);
lblMinion.setForeground(Color.BLACK);
lblMinion.setFont(new Font("Sitka Text", Font.BOLD, 10));
lblMinion.setBounds(10, 405, 171, 31);
```

```
        frame.getContentPane().add(lblMinion);

        JLabel lblThor = new JLabel("Thor: Love & Thunder (P13)");
        lblThor.setBackground(Color.BLACK);
        lblThor.setHorizontalAlignment(SwingConstants.CENTER);
        lblThor.setForeground(Color.WHITE);
        lblThor.setFont(new Font("Sitka Text", Font.BOLD, 12));
        lblThor.setBounds(191, 709, 171, 31);
        frame.getContentPane().add(lblThor);

        JButton btnThor = new JButton("");
        lblThor.setLabelFor(btnThor);
        btnThor.addMouseListener(new MouseAdapter() {
            @Override
            public void mouseClicked(MouseEvent e) {
                movie = "        Thor: Love & Thunder (P13)";
            }
        });
        buttonMovie.add(btnThor);
        //1)dowload picture in the zip                              <-------
        //2)save in HardDisk(D)
        //3)copy the full path(Location) of picture name (Thor) in your computer
        //4)paste it in --> ("D:\\degree uitm\\sem 2\\CSC435 JAVA\\Thor.jpg")
        btnThor.setIcon(new ImageIcon("D:\\degree uitm\\sem 2\\CSC435 JAVA\\Thor.jpg"));
        btnThor.setBounds(191, 598, 171, 142);
        frame.getContentPane().add(btnThor);

        JButton btnMat = new JButton("");
        lblMatKilau.setLabelFor(btnMat);
        btnMat.addMouseListener(new MouseAdapter() {
            @Override
            public void mouseClicked(MouseEvent e)
                {movie = ""
                        + "                 Mat Kilau (P13)";
            }
        });
        buttonMovie.add(btnMat);
        //1)dowload picture in the zip                              <-------
        //2)save in HardDisk(D)
        //3)copy the full path(Location) of picture name (MatKilau) in your computer
        //4)paste it in --> ("D:\\degree uitm\\sem 2\\CSC435 JAVA\\MatKilau1.jpg")
        btnMat.setIcon(new ImageIcon("D:\\degree uitm\\sem 2\\CSC435
JAVA\\MatKilau1.jpg"));
        btnMat.setBounds(191, 294, 171, 142);
        frame.getContentPane().add(btnMat);

        JButton btnIblis = new JButton("");
        lblIblis.setLabelFor(btnIblis);
        btnIblis.addMouseListener(new MouseAdapter() {
            @Override
            public void mouseClicked(MouseEvent e) {
                movie = "       Iblis Dalam Kandungan (18)";
            }
```

```
		buttonMovie.add(btnIblis);
		btnIblis.setForeground(Color.BLACK);
		//1)dowload picture in the zip                                    <-------
		//2)save in HardDisk(D)
		//3)copy the full path(Location) of picture name (Iblis) in your computer
		//4)paste it in --> ("D:\\degree uitm\\sem 2\\CSC435 JAVA\\iblis 5.jpg")
		btnIblis.setIcon(new ImageIcon("D:\\degree uitm\\sem 2\\CSC435 JAVA\\iblis
5.jpg"));
		btnIblis.setBounds(10, 139, 171, 142);
		frame.getContentPane().add(btnIblis);

		JButton btnMinions = new JButton("");
		lblMinion.setLabelFor(btnMinions);
		btnMinions.addMouseListener(new MouseAdapter() {
			@Override
			public void mouseClicked(MouseEvent e) {
				movie = "	Minions: The Rise Of Gru (P13)";
			}
		});
		buttonMovie.add(btnMinions);
		//1)dowload picture in the zip                                    <-------
		//2)save in HardDisk(D)
		//3)copy the full path(Location) of picture name (Minions) in your computer
		//4)paste it in --> ("D:\\degree uitm\\sem 2\\CSC435 JAVA\\minions1.jpg")
		btnMinions.setIcon(new ImageIcon("D:\\degree uitm\\sem 2\\CSC435
JAVA\\minions1.jpg"));
		btnMinions.setBounds(10, 294, 171, 142);
		frame.getContentPane().add(btnMinions);

		JButton btnBlack = new JButton("");
		lblBlack.setLabelFor(btnBlack);
		btnBlack.addMouseListener(new MouseAdapter() {
			@Override
			public void mouseClicked(MouseEvent e) {
				movie = "		The Black Phone (18)";
			}
		});
		buttonMovie.add(btnBlack);
		//1)dowload picture in the zip                                    <-------
		//2)save in HardDisk(D)
		//3)copy the full path(Location) of picture name (Blackphone) in your computer
		//4)paste it in --> ("D:\\degree uitm\\sem 2\\CSC435 JAVA\\blackphone1.jpg")
		btnBlack.setIcon(new ImageIcon("D:\\degree uitm\\sem 2\\CSC435
JAVA\\blackphone1.jpg"));
		btnBlack.setBounds(10, 598, 171, 142);
		frame.getContentPane().add(btnBlack);


		JButton btnJurassic = new JButton("");
		lblJurassicWorldDominion.setLabelFor(btnJurassic);
		btnJurassic.addMouseListener(new MouseAdapter() {
			@Override
			public void mouseClicked(MouseEvent e) {
```

```
                movie = "      Jurassic World: Dominion (P13)";
            }
        });
        buttonMovie.add(btnJurassic);
        //1)dowload picture in the zip                                    <-------
        //2)save in HardDisk(D)
        //3)copy the full path(Location) of picture name (JurassicWorld) in your computer
        //4)paste it in --> ("D:\\degree uitm\\sem 2\\CSC435 JAVA\\jurassicworld1.jpg")
        btnJurassic.setIcon(new ImageIcon("D:\\degree uitm\\sem 2\\CSC435
JAVA\\jurassicworld1.jpg"));
        btnJurassic.setBounds(10, 446, 171, 142);
        frame.getContentPane().add(btnJurassic);


        JButton btnElvis = new JButton("");
        lblElvis.setLabelFor(btnElvis);
        btnElvis.addMouseListener(new MouseAdapter() {
            @Override
            public void mouseClicked(MouseEvent e)
                { movie = "             Elvis (P13)";
            }
        });
        buttonMovie.add(btnElvis);
        //1)dowload picture in the zip                                    <-------
        //2)save in HardDisk(D)
        //3)copy the full path(Location) of picture name (Elvis) in your computer
        //4)paste it in --> ("D:\\degree uitm\\sem 2\\CSC435 JAVA\\elvis1.jpg")
        btnElvis.setIcon(new ImageIcon("D:\\degree uitm\\sem 2\\CSC435
JAVA\\elvis1.jpg"));
        btnElvis.setBounds(191, 446, 171, 142);
        frame.getContentPane().add(btnElvis);

        JButton btnMusyrik = new JButton("");
        lblMusyrik.setLabelFor(btnMusyrik);
        btnMusyrik.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
            }
        });
        btnMusyrik.addMouseListener(new MouseAdapter()
            {@Override
            public void mouseClicked(MouseEvent e)
                { movie = "            Musyrik (P13)";
            }
        });
        buttonMovie.add(btnMusyrik);
        //1)dowload picture in the zip                                    <-------
        //2)save in HardDisk(D)
        //3)copy the full path(Location) of picture name (Musyrik) in your computer
        //4)paste it in --> ("D:\\degree uitm\\sem 2\\CSC435 JAVA\\musyrik1.jpg")
        btnMusyrik.setIcon(new ImageIcon("D:\\degree uitm\\sem 2\\CSC435
JAVA\\musyrik1.jpg"));
        btnMusyrik.setBounds(191, 139, 171, 142);
        frame.getContentPane().add(btnMusyrik);
```

```
JSeparator separator = new JSeparator();
separator.setForeground(Color.BLACK);
separator.setOrientation(SwingConstants.VERTICAL);
separator.setBounds(976, 139, 10, 614);
frame.getContentPane().add(separator);

JSeparator separator_1 = new JSeparator();
separator_1.setOrientation(SwingConstants.VERTICAL);
separator_1.setForeground(Color.BLACK);
separator_1.setBounds(372, 139, 10, 614);
frame.getContentPane().add(separator_1);

txtdate = new JTextField();
txtdate.setToolTipText("dd-MM-yyyy");
txtdate.setHorizontalAlignment(SwingConstants.CENTER);
txtdate.setFont(new Font("Sitka Text", Font.PLAIN, 20));
txtdate.setForeground(Color.BLACK);
txtdate.setBounds(508, 152, 187, 31);
frame.getContentPane().add(txtdate);
txtdate.setColumns(10);

JLabel lblNewLabel_1_1 = new JLabel("Date");
lblNewLabel_1_1.setForeground(Color.WHITE);
lblNewLabel_1_1.setFont(new Font("Sitka Text", Font.BOLD, 25));
lblNewLabel_1_1.setBounds(408, 152, 73, 31);
frame.getContentPane().add(lblNewLabel_1_1);

JRadioButton rdbtn2 = new JRadioButton("2 :00 p.m");
rdbtn2.setBackground(Color.BLACK);
rdbtn2.setForeground(Color.WHITE);
rdbtn2.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e)
                {Time = "2:00 p.m";
        }
});
buttonTime.add(rdbtn2);
rdbtn2.setFont(new Font("Sitka Text", Font.PLAIN, 20));
rdbtn2.setBounds(508, 238, 126, 21);
frame.getContentPane().add(rdbtn2);

JRadioButton rdbtn11 = new JRadioButton("11 :00 a.m");
rdbtn11.setForeground(Color.WHITE);
rdbtn11.setBackground(Color.BLACK);
rdbtn11.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e)
                {Time = "11:00 a.m" ;
        }
});

buttonTime.add(rdbtn11);
rdbtn11.setFont(new Font("Sitka Text", Font.PLAIN, 20));
rdbtn11.setBounds(508, 201, 126, 21);
frame.getContentPane().add(rdbtn11);
```

```
JLabel lblTime = new JLabel("Time");
lblTime.setForeground(Color.WHITE);
lblTime.setFont(new Font("Sitka Text", Font.BOLD, 25));
lblTime.setBounds(408, 216, 73, 31);
frame.getContentPane().add(lblTime);


JRadioButton rdbtn12 = new JRadioButton("12 :00 p.m");
rdbtn12.setBackground(Color.BLACK);
rdbtn12.setForeground(Color.WHITE);
rdbtn12.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e)
                {Time = "12:00 p.m";
        }
});
buttonTime.add(rdbtn12);
rdbtn12.setFont(new Font("Sitka Text", Font.PLAIN, 20));
rdbtn12.setBounds(656, 201, 133, 21);
frame.getContentPane().add(rdbtn12);

JRadioButton rdbtn1 = new JRadioButton("1 :00 p.m");
rdbtn1.setBackground(Color.BLACK);
rdbtn1.setForeground(Color.WHITE);
rdbtn1.addActionListener(new ActionListener() {

        public void actionPerformed(ActionEvent e)
                {Time = "1:00 p.m";
        }
});
buttonTime.add(rdbtn1);
rdbtn1.setFont(new Font("Sitka Text", Font.PLAIN, 20));
rdbtn1.setBounds(806, 201, 133, 21);
frame.getContentPane().add(rdbtn1);


JRadioButton rdbtn8 = new JRadioButton("8 :00 p.m");
rdbtn8.setBackground(Color.BLACK);
rdbtn8.setForeground(Color.WHITE);
rdbtn8.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e)
                {Time = "8:00 p.m";
        }
});
buttonTime.add(rdbtn8);
rdbtn8.setFont(new Font("Sitka Text", Font.PLAIN, 20));
rdbtn8.setBounds(806, 238, 123, 21);
frame.getContentPane().add(rdbtn8);

JRadioButton rdbtn5 = new JRadioButton("5 :00 p.m");
rdbtn5.setBackground(Color.BLACK);
rdbtn5.setForeground(Color.WHITE);
rdbtn5.addActionListener(new ActionListener() {
```

```
            public void actionPerformed(ActionEvent e)
                {Time = "5:00 p.m";
            }
        });
        buttonTime.add(rdbtn5);
        rdbtn5.setFont(new Font("Sitka Text", Font.PLAIN, 20));
        rdbtn5.setBounds(656, 238, 123, 21);
        frame.getContentPane().add(rdbtn5);

        JPanel panel_1 = new JPanel();
        panel_1.setBackground(Color.LIGHT_GRAY);
        panel_1.setBorder(new BevelBorder(BevelBorder.LOWERED, Color.BLACK, null,
null, null));
        panel_1.setBounds(385, 282, 236, 262);
        frame.getContentPane().add(panel_1);
        panel_1.setLayout(null);

        JLabel lblNewLabel_2 = new JLabel("Ticket Type");
        lblNewLabel_2.setFont(new Font("Sitka Text", Font.BOLD, 25));
        lblNewLabel_2.setBounds(38, 21, 166, 39);
        panel_1.add(lblNewLabel_2);

        JLabel lblNewLabel_1_1_1_1 = new JLabel("Adult");
        lblNewLabel_1_1_1_1.setFont(new Font("Sitka Small", Font.PLAIN, 20));
        lblNewLabel_1_1_1_1.setBounds(109, 70, 73, 32);
        panel_1.add(lblNewLabel_1_1_1_1);

        JLabel lblNewLabel_1_1_1_1_1 = new JLabel("Kids");
        lblNewLabel_1_1_1_1_1.setFont(new Font("Sitka Small", Font.PLAIN, 20));
        lblNewLabel_1_1_1_1_1.setBounds(109, 144, 73, 31);
        panel_1.add(lblNewLabel_1_1_1_1_1);

        JLabel lblNewLabel_3 = new JLabel("RM 10");
        lblNewLabel_3.setFont(new Font("Sitka Subheading", Font.BOLD, 15));
        lblNewLabel_3.setBounds(109, 92, 45, 21);
        panel_1.add(lblNewLabel_3);

        JLabel lblNewLabel_3_2 = new JLabel("RM 40");
        lblNewLabel_3_2.setFont(new Font("Sitka Subheading", Font.BOLD, 15));
        lblNewLabel_3_2.setBounds(32, 225, 77, 21);
        panel_1.add(lblNewLabel_3_2);

        JLabel lblNewLabel_3_1 = new JLabel("RM 6");
        lblNewLabel_3_1.setFont(new Font("Sitka Subheading", Font.BOLD, 15));
        lblNewLabel_3_1.setBounds(109, 168, 45, 21);
        panel_1.add(lblNewLabel_3_1);

        JRadioButton rdbtnSingle = new JRadioButton("Single");
        rdbtnSingle.setBackground(Color.LIGHT_GRAY);
        rdbtnSingle.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e)
                {type = "Single";
            }
```

```
		});
		buttonType.add(rdbtnSingle);
		rdbtnSingle.setFont(new Font("Sitka Text", Font.BOLD, 25));
		rdbtnSingle.setBounds(6, 109, 103, 37);
		panel_1.add(rdbtnSingle);


		JRadioButton rdbtnTwin = new JRadioButton("Twin");
		rdbtnTwin.setBackground(Color.LIGHT_GRAY);
		rdbtnTwin.addActionListener(new ActionListener() {
			public void actionPerformed(ActionEvent e)
				{type = "Twin";
			}
		});
		buttonType.add(rdbtnTwin);
		rdbtnTwin.setFont(new Font("Sitka Text", Font.BOLD, 25));
		rdbtnTwin.setBounds(6, 195, 103, 36);
		panel_1.add(rdbtnTwin);

		JSpinner spinnerAldult = new JSpinner();
		spinnerAldult.setForeground(Color.BLACK);
		spinnerAldult.setBackground(Color.WHITE);
		spinnerAldult.setFont(new Font("Sitka Text", Font.BOLD, 20));
		spinnerAldult.setBounds(171, 82, 55, 31);
		panel_1.add(spinnerAldult);

		JSpinner spinnerKids = new JSpinner();
		spinnerKids.setForeground(Color.BLACK);
		spinnerKids.setBackground(Color.WHITE);
		spinnerKids.setFont(new Font("Sitka Text", Font.BOLD, 20));
		spinnerKids.setBounds(171, 149, 55, 31);
		panel_1.add(spinnerKids);

		JSpinner spinnerTwin = new JSpinner();
		spinnerTwin.setForeground(Color.BLACK);
		spinnerTwin.setBackground(Color.WHITE);
		spinnerTwin.setFont(new Font("Sitka Text", Font.BOLD, 20));
		spinnerTwin.setBounds(171, 210, 55, 31);
		panel_1.add(spinnerTwin);

		JPanel panelseat = new JPanel();
		panelseat.setForeground(Color.BLACK);
		panelseat.setBackground(Color.LIGHT_GRAY);
		panelseat.setBorder(new BevelBorder(BevelBorder.LOWERED, Color.BLACK, null,
null, null));
		panelseat.setBounds(647, 282, 319, 262);
		frame.getContentPane().add(panelseat);
		panelseat.setLayout(null);

		JPanel panel_2 = new JPanel();
		panel_2.setBackground(Color.BLUE);
		panel_2.setBounds(9, 33, 300, 20);
		panel_2.setBorder(new LineBorder(Color.BLACK));
```

```
panelseat.add(panel_2);
panel_2.setLayout(null);

JLabel lblScreen = new JLabel("SCREEN");
lblScreen.setHorizontalAlignment(SwingConstants.CENTER);
lblScreen.setForeground(Color.WHITE);
lblScreen.setFont(new Font("Sitka Subheading", Font.BOLD, 15));
lblScreen.setBounds(110, 0, 87, 20);
panel_2.add(lblScreen);

JLabel lblA1 = new JLabel("A1");
lblA1.setForeground(Color.YELLOW);
lblA1.setFont(new Font("Sitka Small", Font.BOLD, 15));
lblA1.setBounds(9, 107, 26, 20);
panelseat.add(lblA1);

JLabel lblA2 = new JLabel("A2");
lblA2.setForeground(Color.YELLOW);
lblA2.setFont(new Font("Sitka Small", Font.BOLD, 15));
lblA2.setBounds(40, 107, 26, 20);
panelseat.add(lblA2);

JLabel lblA3 = new JLabel("A3");
lblA3.setForeground(Color.YELLOW);
lblA3.setFont(new Font("Sitka Small", Font.BOLD, 15));
lblA3.setBounds(95, 107, 26, 20);
panelseat.add(lblA3);

JLabel lblA4 = new JLabel("A4");
lblA4.setForeground(Color.YELLOW);
lblA4.setFont(new Font("Sitka Small", Font.BOLD, 15));
lblA4.setBounds(131, 107, 26, 20);
panelseat.add(lblA4);

JLabel lblA5 = new JLabel("A5");
lblA5.setForeground(Color.YELLOW);
lblA5.setFont(new Font("Sitka Small", Font.BOLD, 15));
lblA5.setBounds(163, 107, 26, 20);
panelseat.add(lblA5);

JLabel lblA6 = new JLabel("A6");
lblA6.setForeground(Color.YELLOW);
lblA6.setFont(new Font("Sitka Small", Font.BOLD, 15));
lblA6.setBounds(196, 107, 26, 20);
panelseat.add(lblA6);

JLabel lblA7 = new JLabel("A7");
lblA7.setForeground(Color.YELLOW);
lblA7.setFont(new Font("Sitka Small", Font.BOLD, 15));
lblA7.setBounds(250, 107, 26, 20);
panelseat.add(lblA7);

JLabel lblA8 = new JLabel("A8");
```

```
lblA8.setForeground(Color.YELLOW);
lblA8.setFont(new Font("Sitka Small", Font.BOLD, 15));
lblA8.setBounds(283, 107, 26, 20);
panelseat.add(lblA8);

JLabel lblB1 = new JLabel("B1");
lblB1.setForeground(Color.YELLOW);
lblB1.setFont(new Font("Sitka Small", Font.BOLD, 15));
lblB1.setBounds(9, 149, 26, 20);
panelseat.add(lblB1);

JLabel lblB2 = new JLabel("B2");
lblB2.setForeground(Color.YELLOW);
lblB2.setFont(new Font("Sitka Small", Font.BOLD, 15));
lblB2.setBounds(40, 149, 26, 20);
panelseat.add(lblB2);

JLabel lblB3 = new JLabel("B3");
lblB3.setForeground(Color.YELLOW);
lblB3.setFont(new Font("Sitka Small", Font.BOLD, 15));
lblB3.setBounds(95, 149, 26, 20);
panelseat.add(lblB3);

JLabel lblB4 = new JLabel("B4");
lblB4.setForeground(Color.YELLOW);
lblB4.setFont(new Font("Sitka Small", Font.BOLD, 15));
lblB4.setBounds(131, 149, 26, 20);
panelseat.add(lblB4);

JLabel lblB5 = new JLabel("B5");
lblB5.setForeground(Color.YELLOW);
lblB5.setFont(new Font("Sitka Small", Font.BOLD, 15));
lblB5.setBounds(163, 149, 26, 20);
panelseat.add(lblB5);

JLabel lblB6 = new JLabel("B6");
lblB6.setForeground(Color.YELLOW);
lblB6.setFont(new Font("Sitka Small", Font.BOLD, 15));
lblB6.setBounds(196, 149, 26, 20);
panelseat.add(lblB6);

JLabel lblB7 = new JLabel("B7");
lblB7.setForeground(Color.YELLOW);
lblB7.setFont(new Font("Sitka Small", Font.BOLD, 15));
lblB7.setBounds(250, 149, 26, 20);
panelseat.add(lblB7);

JLabel lblB8 = new JLabel("B8");
lblB8.setForeground(Color.YELLOW);
lblB8.setFont(new Font("Sitka Small", Font.BOLD, 15));
lblB8.setBounds(283, 149, 26, 20);
panelseat.add(lblB8);
```

```
JLabel lblC1 = new JLabel("C1");
lblC1.setForeground(Color.YELLOW);
lblC1.setFont(new Font("Sitka Small", Font.BOLD, 15));
lblC1.setBounds(9, 191, 26, 20);
panelseat.add(lblC1);

JLabel lblC2 = new JLabel("C2");
lblC2.setForeground(Color.YELLOW);
lblC2.setFont(new Font("Sitka Small", Font.BOLD, 15));
lblC2.setBounds(40, 191, 26, 20);
panelseat.add(lblC2);

JLabel lblC3 = new JLabel("C3");
lblC3.setForeground(Color.YELLOW);
lblC3.setFont(new Font("Sitka Small", Font.BOLD, 15));
lblC3.setBounds(95, 191, 26, 20);
panelseat.add(lblC3);

JLabel lblC4 = new JLabel("C4");
lblC4.setForeground(Color.YELLOW);
lblC4.setFont(new Font("Sitka Small", Font.BOLD, 15));
lblC4.setBounds(131, 191, 26, 20);
panelseat.add(lblC4);

JLabel lblC5 = new JLabel("C5");
lblC5.setForeground(Color.YELLOW);
lblC5.setFont(new Font("Sitka Small", Font.BOLD, 15));
lblC5.setBounds(163, 191, 26, 20);
panelseat.add(lblC5);

JLabel lblC6 = new JLabel("C6");
lblC6.setForeground(Color.YELLOW);
lblC6.setFont(new Font("Sitka Small", Font.BOLD, 15));
lblC6.setBounds(196, 191, 26, 20);
panelseat.add(lblC6);

JLabel lblC7 = new JLabel("C7");
lblC7.setForeground(Color.YELLOW);
lblC7.setFont(new Font("Sitka Small", Font.BOLD, 15));
lblC7.setBounds(250, 191, 26, 20);
panelseat.add(lblC7);

JLabel lblC8 = new JLabel("C8");
lblC8.setForeground(Color.YELLOW);
lblC8.setFont(new Font("Sitka Small", Font.BOLD, 15));
lblC8.setBounds(283, 191, 26, 20);
panelseat.add(lblC8);

JLabel lblT1 = new JLabel("T1");
lblT1.setForeground(new Color(0, 255, 255));
lblT1.setBackground(Color.LIGHT_GRAY);
lblT1.setFont(new Font("Sitka Small", Font.BOLD, 15));
```

```
lblT1.setBounds(21, 232, 26, 20);
panelseat.add(lblT1);

JLabel lblT2 = new JLabel("T2");
lblT2.setForeground(new Color(0, 255, 255));
lblT2.setFont(new Font("Sitka Small", Font.BOLD, 15));
lblT2.setBounds(114, 232, 26, 20);
panelseat.add(lblT2);

JLabel lblT3 = new JLabel("T3");
lblT3.setForeground(new Color(0, 255, 255));
lblT3.setFont(new Font("Sitka Small", Font.BOLD, 15));
lblT3.setBounds(177, 232, 26, 20);
panelseat.add(lblT3);

JLabel lblT4 = new JLabel("T4");
lblT4.setForeground(new Color(0, 255, 255));
lblT4.setFont(new Font("Sitka Small", Font.BOLD, 15));
lblT4.setBounds(273, 232, 26, 20);
panelseat.add(lblT4);

JCheckBox A1 = new JCheckBox("A1");
A1.setBackground(Color.LIGHT_GRAY);
A1.setForeground(Color.WHITE);
A1.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e)
                {if (rdbtnTwin.isSelected()) {
                        A1.setSelected(false);
                        A1.setEnabled(false);
                }
        }
});
A1.setBounds(9, 81, 20, 21);
panelseat.add(A1);

JCheckBox A2 = new JCheckBox("A2");
A2.setBackground(Color.LIGHT_GRAY);
A2.setForeground(Color.WHITE);
A2.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e)
                {if (rdbtnTwin.isSelected()) {
                        A2.setSelected(false);
                        A2.setEnabled(false);
                }
        }
});
A2.setBounds(41, 81, 20, 21);
panelseat.add(A2);

JCheckBox A3 = new JCheckBox("A3");
A3.setBackground(Color.LIGHT_GRAY);
A3.setForeground(Color.WHITE);
A3.addActionListener(new ActionListener() {
```

```
          public void actionPerformed(ActionEvent e)
                  {if (rdbtnTwin.isSelected()) {
                          A3.setSelected(false);
                          A3.setEnabled(false);
                  }
          }
});
A3.setBounds(95, 81, 20, 21);
panelseat.add(A3);

JCheckBox A4 = new JCheckBox("A4");
A4.setBackground(Color.LIGHT_GRAY);
A4.setForeground(Color.WHITE);
A4.addActionListener(new ActionListener()  {
          public void actionPerformed(ActionEvent e)
                  {if (rdbtnTwin.isSelected()) {
                          A4.setSelected(false);
                          A4.setEnabled(false);
                  }
          }
});
A4.setBounds(127, 81, 20, 21);
panelseat.add(A4);

JCheckBox A5 = new JCheckBox("A5");
A5.setBackground(Color.LIGHT_GRAY);
A5.setForeground(Color.WHITE);
A5.addActionListener(new ActionListener()  {
          public void actionPerformed(ActionEvent e)
                  {if (rdbtnTwin.isSelected()) {
                          A5.setSelected(false);
                          A5.setEnabled(false);
                  }
          }
});
A5.setBounds(163, 81, 20, 21);
panelseat.add(A5);

JCheckBox A6 = new JCheckBox("A6");
A6.setBackground(Color.LIGHT_GRAY);
A6.setForeground(Color.WHITE);
A6.addActionListener(new ActionListener()  {
          public void actionPerformed(ActionEvent e)
                  {if (rdbtnTwin.isSelected()) {

                          A6.setSelected(false);A6.setEnabled(false);
                  }

          }
});
A6.setBounds(195, 81, 20, 21);
panelseat.add(A6);
```

```
JCheckBox A7 = new JCheckBox("A7");
A7.setBackground(Color.LIGHT_GRAY);
A7.setForeground(Color.WHITE);
A7.addActionListener(new ActionListener()  {
        public void actionPerformed(ActionEvent e)
                {if (rdbtnTwin.isSelected()) {
                        A7.setSelected(false);
                        A7.setEnabled(false);
                }
        }
});
A7.setBounds(250, 81, 20, 21);
panelseat.add(A7);

JCheckBox A8 = new JCheckBox("A8");
A8.setBackground(Color.LIGHT_GRAY);
A8.setForeground(Color.WHITE);
A8.addActionListener(new ActionListener()  {
        public void actionPerformed(ActionEvent e)
                {if (rdbtnTwin.isSelected()) {
                        A8.setSelected(false);
                        A8.setEnabled(false);
                }
        }
});
A8.setBounds(282, 81, 20, 21);
panelseat.add(A8);

JCheckBox B8 = new JCheckBox("B8");
B8.setBackground(Color.LIGHT_GRAY);
B8.setForeground(Color.WHITE);
B8.addActionListener(new ActionListener()  {
        public void actionPerformed(ActionEvent e)
                {if (rdbtnTwin.isSelected()) {
                        B8.setSelected(false);
                        B8.setEnabled(false);
                }
        }
});
B8.setBounds(282, 124, 20, 21);
panelseat.add(B8);

JCheckBox B7 = new JCheckBox("B7");
B7.setBackground(Color.LIGHT_GRAY);
B7.setForeground(Color.WHITE);
B7.addActionListener(new ActionListener()  {
        public void actionPerformed(ActionEvent e)
                {if (rdbtnTwin.isSelected()) {
                        B7.setSelected(false);
                        B7.setEnabled(false);
                }
        }
});
```

```
B7.setBounds(250, 124, 20, 21);
panelseat.add(B7);

JCheckBox B6 = new JCheckBox("B6");
B6.setBackground(Color.LIGHT_GRAY);
B6.setForeground(Color.WHITE);
B6.addActionListener(new  ActionListener()  {
        public void actionPerformed(ActionEvent e)
                {if (rdbtnTwin.isSelected()) {
                        B6.setSelected(false);
                        B6.setEnabled(false);
                }
        }
});
B6.setBounds(195, 124, 20, 21);
panelseat.add(B6);

JCheckBox B5 = new JCheckBox("B5");
B5.setBackground(Color.LIGHT_GRAY);
B5.setForeground(Color.WHITE);
B5.addActionListener(new  ActionListener()  {
        public void actionPerformed(ActionEvent e)
                {if (rdbtnTwin.isSelected()) {
                        B5.setSelected(false);
                        B5.setEnabled(false);
                }
        }
});
B5.setBounds(163, 124, 20, 21);
panelseat.add(B5);

JCheckBox B4 = new JCheckBox("B4");
B4.setBackground(Color.LIGHT_GRAY);
B4.setForeground(Color.WHITE);
B4.addActionListener(new  ActionListener()  {
        public void actionPerformed(ActionEvent e)
                {if (rdbtnTwin.isSelected()) {
                        B4.setSelected(false);
                        B4.setEnabled(false);
                }
        }
});
B4.setBounds(127, 124, 20, 21);
panelseat.add(B4);

JCheckBox B3 = new JCheckBox("B3");
B3.setBackground(Color.LIGHT_GRAY);
B3.setForeground(Color.WHITE);
B3.addActionListener(new  ActionListener()  {
        public void actionPerformed(ActionEvent e)
                {if (rdbtnTwin.isSelected()) {
                        B3.setSelected(false);
                        B3.setEnabled(false);
                }
        }
});
B3.setBounds(95, 124, 20, 21);
panelseat.add(B3);

JCheckBox B2 = new JCheckBox("B2");
B2.setBackground(Color.LIGHT_GRAY);
B2.setForeground(Color.WHITE);
B2.addActionListener(new  ActionListener()  {
        public void actionPerformed(ActionEvent e)
                {if (rdbtnTwin.isSelected()) {
                        B2.setSelected(false);
                        B2.setEnabled(false);
                }
        }
});
B2.setBounds(41, 124, 20, 21);
panelseat.add(B2);

JCheckBox B1 = new JCheckBox("B1");
B1.setBackground(Color.LIGHT_GRAY);
B1.setForeground(Color.WHITE);
B1.addActionListener(new  ActionListener()  {
        public void actionPerformed(ActionEvent e)
                {if (rdbtnTwin.isSelected()) {
                        B1.setSelected(false);
                        B1.setEnabled(false);
                }
        }
});
B1.setBounds(9, 124, 20, 21);
panelseat.add(B1);

JCheckBox C8 = new JCheckBox("C8");
C8.setBackground(Color.LIGHT_GRAY);
C8.setForeground(Color.WHITE);
C8.addActionListener(new  ActionListener()  {
        public void actionPerformed(ActionEvent e)
                {if (rdbtnTwin.isSelected()) {
                        C8.setSelected(false);
                        C8.setEnabled(false);
                }
        }
});
C8.setBounds(282, 166, 20, 21);
panelseat.add(C8);

JCheckBox C7 = new JCheckBox("C7");
C7.setBackground(Color.LIGHT_GRAY);
C7.setForeground(Color.WHITE);
C7.addActionListener(new ActionListener()  {
        public void actionPerformed(ActionEvent e) {
                if (rdbtnTwin.isSelected()) {
                    C7.setSelected(false);
                    C7.setEnabled(false);
                }
        }
});
C7.setBounds(250, 166, 20, 21);
panelseat.add(C7);

JCheckBox C6 = new JCheckBox("C6");
C6.setBackground(Color.LIGHT_GRAY);
C6.setForeground(Color.WHITE);
C6.addActionListener(new  ActionListener()  {
        public void actionPerformed(ActionEvent e)
                {if (rdbtnTwin.isSelected()) {
                    C6.setSelected(false);
                    C6.setEnabled(false);
                }
        }
});
C6.setBounds(195, 166, 20, 21);
panelseat.add(C6);

JCheckBox C5 = new JCheckBox("C5");
C5.setBackground(Color.LIGHT_GRAY);
C5.setForeground(Color.WHITE);
C5.addActionListener(new  ActionListener()  {
        public void actionPerformed(ActionEvent e)
                {if (rdbtnTwin.isSelected()) {
                    C5.setSelected(false);
                    C5.setEnabled(false);
                }
        }
});
C5.setBounds(163, 166, 20, 21);
panelseat.add(C5);

JCheckBox C4 = new JCheckBox("C4");
C4.setBackground(Color.LIGHT_GRAY);
C4.setForeground(Color.WHITE);
C4.addActionListener(new  ActionListener()  {
        public void actionPerformed(ActionEvent e)
                {if (rdbtnTwin.isSelected()) {
                    C4.setSelected(false);
                    C4.setEnabled(false);
                }
        }
});
C4.setBounds(127, 166, 20, 21);
panelseat.add(C4);

JCheckBox C3 = new JCheckBox("C3");
C3.setBackground(Color.LIGHT_GRAY);
```

```
C3.setForeground(Color.WHITE);
C3.addActionListener(new  ActionListener()   {
        public void actionPerformed(ActionEvent e)
                {if (rdbtnTwin.isSelected()) {
                        C3.setSelected(false);
                        C3.setEnabled(false);
                }
        }
});
C3.setBounds(95, 166, 20, 21);
panelseat.add(C3);

JCheckBox C2 = new JCheckBox("C2");
C2.setBackground(Color.LIGHT_GRAY);
C2.setForeground(Color.WHITE);
C2.addActionListener(new  ActionListener()   {
        public void actionPerformed(ActionEvent e)
                {if (rdbtnTwin.isSelected()) {
                        C2.setSelected(false);
                        C2.setEnabled(false);
                }
        }
});
C2.setBounds(41, 166, 20, 21);
panelseat.add(C2);

JCheckBox C1 = new JCheckBox("C1");
C1.setBackground(Color.LIGHT_GRAY);
C1.setForeground(Color.WHITE);
C1.addActionListener(new  ActionListener()   {
        public void actionPerformed(ActionEvent e)
                {if (rdbtnTwin.isSelected()) {
                        C1.setSelected(false);
                        C1.setEnabled(false);
                }
        }
});
C1.setBounds(9, 166, 20, 21);
panelseat.add(C1);

JCheckBox T1 = new JCheckBox("T1");
T1.setBackground(Color.LIGHT_GRAY);
T1.setForeground(Color.WHITE);
T1.addActionListener(new ActionListener()  {
        public void actionPerformed(ActionEvent e)
                {if (rdbtnSingle.isSelected()) {
                        T1.setSelected(false);
                        T1.setEnabled(false);
                }
        }
});
T1.setBounds(19, 210, 20, 21);
panelseat.add(T1);
```

```
JCheckBox T2 = new JCheckBox("T2");
T2.setBackground(Color.LIGHT_GRAY);
T2.setForeground(Color.WHITE);
T2.addActionListener(new ActionListener()  {
        public void actionPerformed(ActionEvent e)
                {if (rdbtnSingle.isSelected()) {
                        T2.setSelected(false);
                        T2.setEnabled(false);
                }
        }
});
T2.setBounds(114, 210, 20, 21);
panelseat.add(T2);

JCheckBox T3 = new JCheckBox("T3");
T3.setBackground(Color.LIGHT_GRAY);
T3.setForeground(Color.WHITE);
T3.addActionListener(new ActionListener()  {
        public void actionPerformed(ActionEvent e)
                {if (rdbtnSingle.isSelected()) {
                        T3.setSelected(false);
                        T3.setEnabled(false);
                }
        }
});
T3.setBounds(173, 210, 20, 21);
panelseat.add(T3);

JCheckBox T4 = new JCheckBox("T4");
T4.setBackground(Color.LIGHT_GRAY);
T4.setForeground(Color.WHITE);
T4.addActionListener(new ActionListener()  {
        public void actionPerformed(ActionEvent e)
                {if (rdbtnSingle.isSelected()) {
                        T4.setSelected(false);
                        T4.setEnabled(false);
                }
        }
});
T4.setBounds(270, 210, 20, 21);
panelseat.add(T4);

JLabel lblSingle = new JLabel("Single");
lblSingle.setForeground(Color.YELLOW);
lblSingle.setFont(new Font("Sitka Text", Font.BOLD, 15));
lblSingle.setBounds(23, 10, 52, 20);
panelseat.add(lblSingle);

JLabel lblTwin_1 = new JLabel("Twin");
lblTwin_1.setForeground(new Color(51, 255, 255));
lblTwin_1.setFont(new Font("Sitka Text", Font.BOLD, 15));
lblTwin_1.setBounds(257, 10, 52, 20);
```

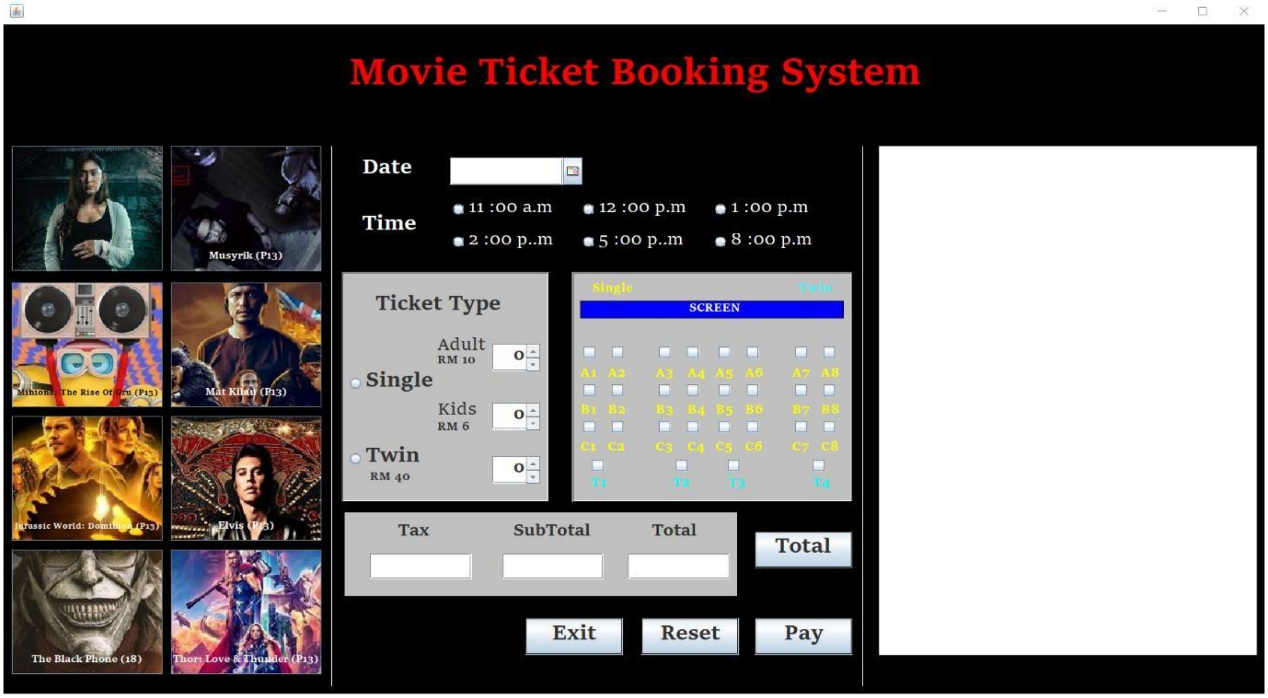
```
panelseat.add(lblTwin_1);

JLabel lblTwin = new JLabel("Twin");
lblTwin.setForeground(Color.YELLOW);
lblTwin.setFont(new Font("Sitka Text", Font.BOLD, 15));
lblTwin.setBounds(250, 13, 59, 23);

JPanel panel_3 = new JPanel();
panel_3.setBackground(Color.LIGHT_GRAY);
panel_3.setBorder(new LineBorder(Color.BLACK, 2));
panel_3.setBounds(386, 554, 451, 99);
frame.getContentPane().add(panel_3);
panel_3.setLayout(null);

textTax = new JTextField();
textTax.setBounds(31, 49, 116, 29);
panel_3.add(textTax);
textTax.setHorizontalAlignment(SwingConstants.CENTER);
textTax.setFont(new Font("Sitka Text", Font.BOLD, 20));
textTax.setColumns(10);

textSubTotal = new JTextField();
textSubTotal.setBounds(182, 49, 115, 29);
panel_3.add(textSubTotal);
textSubTotal.setHorizontalAlignment(SwingConstants.CENTER);
textSubTotal.setFont(new Font("Sitka Text", Font.BOLD, 20));
textSubTotal.setColumns(10);

textTotal = new JTextField();
textTotal.setBounds(325, 49, 116, 29);
panel_3.add(textTotal);
textTotal.setHorizontalAlignment(SwingConstants.CENTER);
textTotal.setFont(new Font("Sitka Text", Font.BOLD, 20));
textTotal.setColumns(10);

JLabel lblTax = new JLabel("Tax");
lblTax.setBounds(63, 10, 47, 31);
panel_3.add(lblTax);
lblTax.setFont(new Font("Sitka Text", Font.BOLD, 20));

JLabel lblSubTotal = new JLabel("SubTotal");
lblSubTotal.setBounds(182, 10, 112, 31);
panel_3.add(lblSubTotal);
lblSubTotal.setHorizontalAlignment(SwingConstants.CENTER);
lblSubTotal.setFont(new Font("Sitka Text", Font.BOLD, 20));

JLabel lblTotal = new JLabel("Total");
lblTotal.setBounds(352, 10, 60, 31);
panel_3.add(lblTotal);
lblTotal.setHorizontalAlignment(SwingConstants.LEFT);
lblTotal.setFont(new Font("Sitka Text", Font.BOLD, 20));

JButton btnPay = new JButton("Total");
```

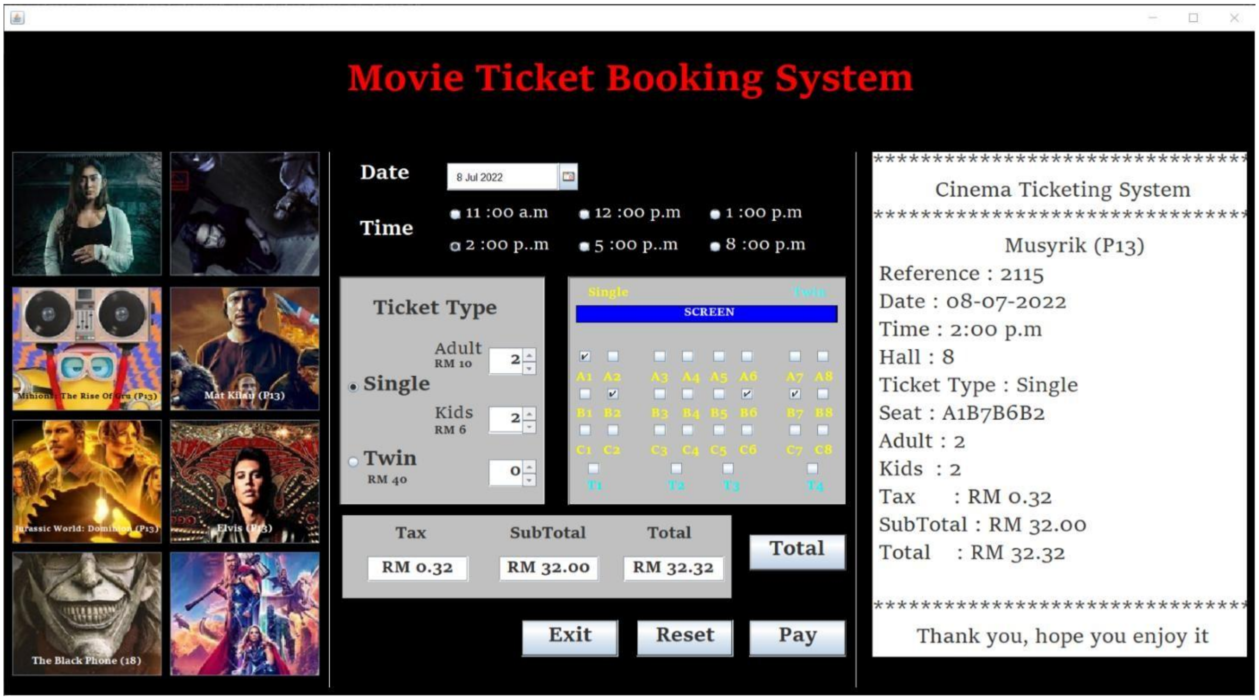
```
btnPay.addMouseListener(new MouseAdapter()
        {@Override
        public void mouseClicked(MouseEvent arg0)
                {double Tax,Sub;
                int num1, num2 ,num3;
                num1 = ((int) spinnerAldult.getValue() *10);
                num2 = ((int) spinnerKids.getValue() *6);
                num3 = ((int) spinnerTwin.getValue() *40);

                if ((rdbtnSingle.isSelected()))
                        {Sub = num1 + num2 ;
                        Tax= Sub/100;
                        total =Sub+Tax;
                }
                else {
                        Sub = num3;
                        Tax= Sub/100;
                        total =Sub+Tax;
                }

                textTax.setText(String.format("RM %.2f", Tax));
                textSubTotal.setText(String.format("RM %.2f", Sub));
                textTotal.setText(String.format("RM %.2f",Tax+ Sub));
        }
});
btnPay.setFont(new Font("Sitka Text", Font.BOLD, 25));
btnPay.setBorder(new EtchedBorder(EtchedBorder.RAISED, Color.BLACK, null));
btnPay.setAlignmentX(1.0f);
btnPay.setBounds(855, 577, 111, 42);
frame.getContentPane().add(btnPay);

JButton btnExit = new JButton("Exit");
btnExit.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {

                frame = new JFrame("Exit");
                        System.exit(0);
        }
});
btnExit.setBorder(new EtchedBorder(EtchedBorder.RAISED, Color.BLACK, null));
btnExit.setAlignmentX(Component.RIGHT_ALIGNMENT);
btnExit.setFont(new Font("Sitka Text", Font.BOLD, 25));
btnExit.setBounds(594, 676, 111, 42);
frame.getContentPane().add(btnExit);


JTextArea textReceipt = new JTextArea();
textReceipt.setBackground(Color.WHITE);
textReceipt.setFont(new Font("Sitka Text", Font.PLAIN, 25));
textReceipt.setBounds(996, 139, 430, 579);
frame.getContentPane().add(textReceipt);

JButton btnReceipt = new JButton("Pay");
```

```
                    btnReceipt.addActionListener(new  ActionListener()
                              { public void actionPerformed(ActionEvent arg0)
                              {
                                        String date = txtdate.getText();
                                        int refs=1325 +(int)(Math.random()*4238);
                                        int hall=1+ (int) (Math.random()*9);


          textReceipt.setText("*************************************\n");
                                        textReceipt.setText(textReceipt.getText()+"          Cinema Ticketing
System     \n");

          textReceipt.setText(textReceipt.getText()+"*************************************\n"
);
                                        textReceipt.setText(textReceipt.getText()+movie);
                                        textReceipt.setText(textReceipt.getText()+"\n Reference : "+refs);
                                        textReceipt.setText(textReceipt.getText()+"\n Date : "+date);
                                        textReceipt.setText(textReceipt.getText()+"\n Time : "+Time);
                                        textReceipt.setText(textReceipt.getText()+"\n Hall : "+hall);
                                        textReceipt.setText(textReceipt.getText()+"\n Ticket Type : "+type);

                                        result = "";
                                        for(Component c : panelseat.getComponents())
                                                  { if(c.getClass().equals(JCheckBox.class))
                                                  {JCheckBox jck= (JCheckBox) c;
                                                  if(jck.isSelected())
                                                            result += jck.getText();
                                                  }
                                        }

                                        textReceipt.setText(textReceipt.getText()+"\n Seat : "+result);


                                        if (rdbtnSingle.isSelected())
                                                  { textReceipt.setText(textReceipt.getText()+"\n    Adult       :
"+spinnerAldult.getValue());
                                                  textReceipt.setText(textReceipt.getText()+"\n     Kids         :
"+spinnerKids.getValue());
                                        }
                                        else {
                                                  textReceipt.setText(textReceipt.getText()+"\n     Twin         :
"+spinnerTwin.getValue());
                                        }



                                        textReceipt.setText(textReceipt.getText()+"\n    Tax                   :
"+textTax.getText());
                                        textReceipt.setText(textReceipt.getText()+"\n          SubTotal          :
"+textSubTotal.getText());
                                        textReceipt.setText(textReceipt.getText()+"\n     Total                :
"+textTotal.getText());

          textReceipt.setText(textReceipt.getText()+"\n\n************************************
*\n");
                textReceipt.setText(textReceipt.getText()+"       Thank you, hope you
enjoy it        ");

                              }
                    });
                    btnReceipt.setFont(new Font("Sitka Text", Font.BOLD, 25));
                    btnReceipt.setBorder(new EtchedBorder(EtchedBorder.RAISED, Color.BLACK,
null));
                    btnReceipt.setAlignmentX(1.0f);
                    btnReceipt.setBounds(855, 676, 111, 42);
                    frame.getContentPane().add(btnReceipt);

                    JButton btnReset = new JButton("Reset");
                    btnReset.addActionListener(new ActionListener()  {

                              public void actionPerformed(ActionEvent e)
                {textReceipt.setText(null);
                txtdate.setText(null);
                buttonType.clearSelection();
                buttonTime.clearSelection();
                buttonMovie.clearSelection();
                spinnerAldult.setValue(0);
                spinnerKids.setValue(0);
                spinnerTwin.setValue(0);
                textTax.setText(null);
                textSubTotal.setText(null);
                textTotal.setText(null);

                A1.setSelected(false);
                A2.setSelected(false);
                A3.setSelected(false);
                A4.setSelected(false);
                A5.setSelected(false);
                A6.setSelected(false);
                A7.setSelected(false);
                A8.setSelected(false);
                A1.setEnabled(true);
                A2.setEnabled(true);
                A3.setEnabled(true);
                A4.setEnabled(true);
                A5.setEnabled(true);
                A6.setEnabled(true);
                A7.setEnabled(true);
                A8.setEnabled(true);

                B1.setSelected(false);
                B2.setSelected(false);
                B3.setSelected(false);
                B4.setSelected(false);
                B5.setSelected(false);
                B6.setSelected(false);
                B7.setSelected(false);
                B8.setSelected(false);
                B1.setEnabled(true);
                B2.setEnabled(true);
                B3.setEnabled(true);
                B4.setEnabled(true);
                B5.setEnabled(true);
                B6.setEnabled(true);
                B7.setEnabled(true);
                B8.setEnabled(true);

                C1.setSelected(false);
                C2.setSelected(false);
                C3.setSelected(false);
                C4.setSelected(false);
                C5.setSelected(false);
                C6.setSelected(false);
                C7.setSelected(false);
                C8.setSelected(false);
                C1.setEnabled(true);
                C2.setEnabled(true);
                C3.setEnabled(true);
                C4.setEnabled(true);
                C5.setEnabled(true);
                C6.setEnabled(true);
                C7.setEnabled(true);
                C8.setEnabled(true);

                T1.setSelected(false);
                T2.setSelected(false);
                T3.setSelected(false);
                T4.setSelected(false);
                T1.setEnabled(true);
                T2.setEnabled(true);
                T3.setEnabled(true);
                T4.setEnabled(true);
            }
        });
        btnReset.setFont(new Font("Sitka Text", Font.BOLD, 25));
        btnReset.setBorder(new EtchedBorder(EtchedBorder.RAISED, Color.BLACK, null));
        btnReset.setAlignmentX(1.0f);
        btnReset.setBounds(726, 676, 111, 42);
        frame.getContentPane().add(btnReset);


    }
}
```

5.0 RESULT

5.1 SAMPLE OF INPUT / OUTPUT





Date: 8 Jul 2022

● 2 :00 p..m

● Single

Adult: 2

Kids: 2

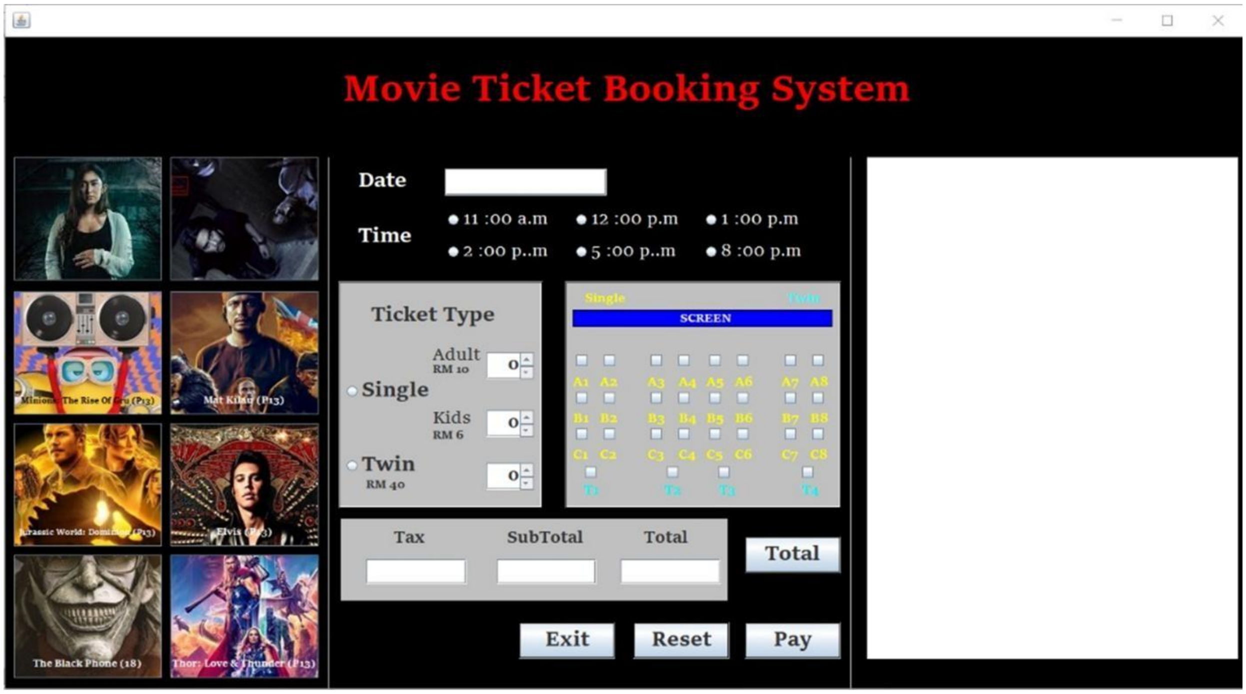
Twin: 0

Tax	SubTotal	Total
RM 0.32	RM 32.00	RM 32.32

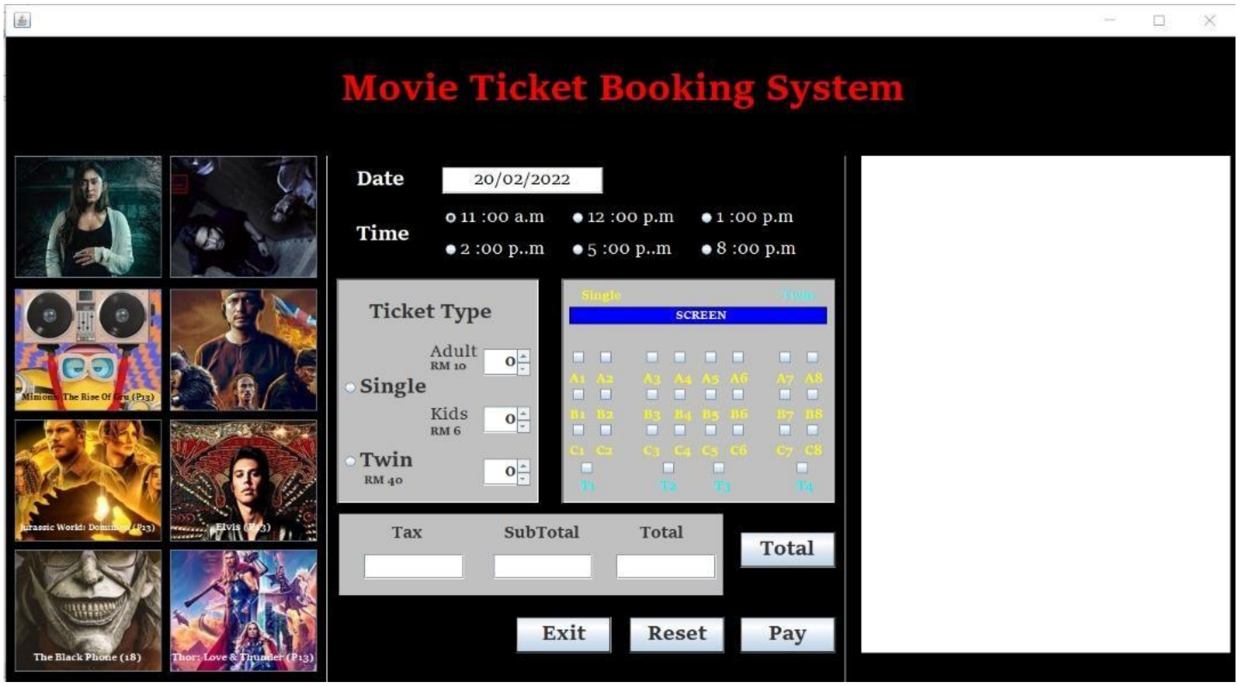
```
********************************
     Cinema Ticketing System
********************************
          Musyrik (P13)
Reference : 2115
Date : 08-07-2022
Time : 2:00 p.m
Hall : 8
Ticket Type : Single
Seat : A1B7B6B2
Adult : 2
Kids  : 2
Tax      : RM 0.32
SubTotal : RM 32.00
Total    : RM 32.32

********************************
  Thank you, hope you enjoy it
```

6.0 USER MANUAL

6.1 APPENDIX

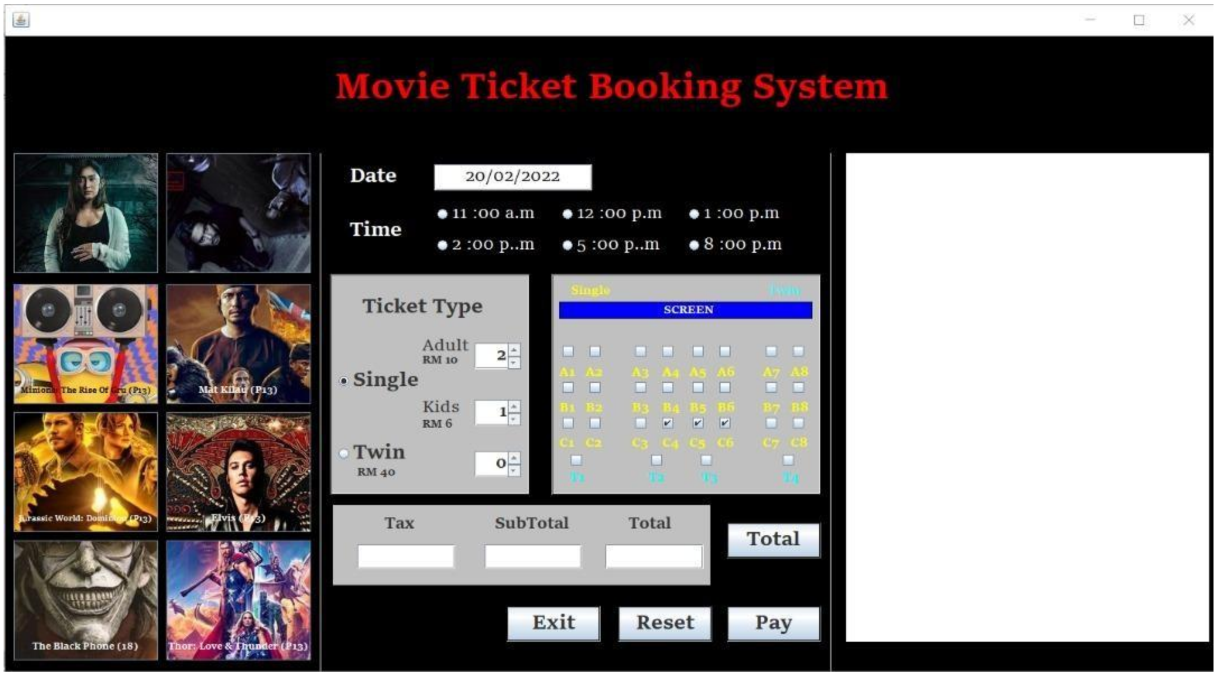


When you open the system, this is what you will see first. Then, choose your movie that you would like to watch. Simply just click the movie that you want to watch at the left side of the system.



Date 20/02/2022

After that, pick the date and time that you would like to watch. Don't worry, our system offer a flexible time and date so you can choose whichever works in your favour.



Movie Ticket Booking System

Date 20/02/2022

Time ● 11 :00 a.m ● 12 :00 p.m ● 1 :00 p.m ● 2 :00 p..m ● 5 :00 p..m ● 8 :00 p.m

Ticket Type

○ Single — Adult RM 10: 2; Kids RM 6: 1

○ Twin RM 40: 0

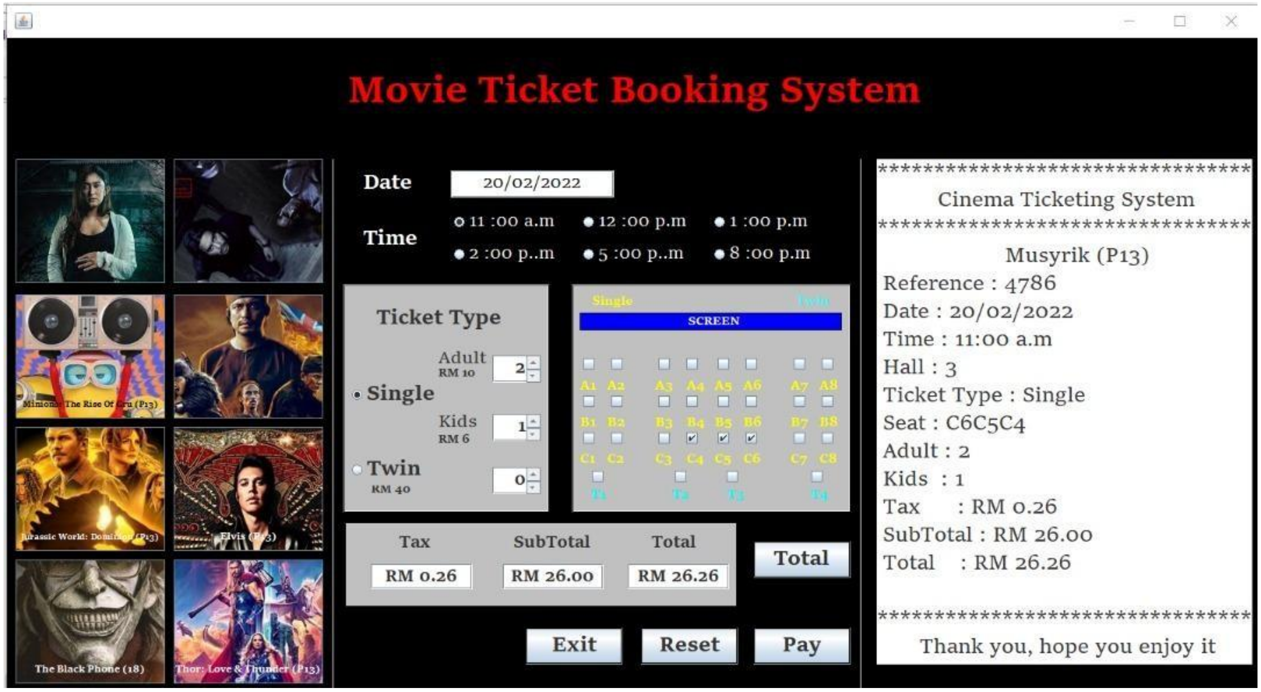
Single / Twin — SCREEN

□ A1	□ A2	□ A3	□ A4	□ A5	□ A6	□ A7	□ A8
□ B1	□ B2	□ B3	□ B4	□ B5	□ B6	□ B7	□ B8
□ C1	□ C2	□ C3	☑ C4	☑ C5	☑ C6	□ C7	□ C8
□ T1		□ T2		□ T3		□ T4	

Tax / SubTotal / Total

Minions: The Rise Of Gru (P13)
Mat Kilau (P13)
Jurassic World: Dominion (P13)
Elvis (P13)
The Black Phone (18)
Thor: Love & Thunder (P13)
Total
Exit
Reset
Pay

Then, choose what type of seat you want. Our system offers two type of seat which is single and twin. Single type seats are divided by two which is adult's and kid's. Both of it offers different price for each seat as it shown on the system. The twin only comes as one which priced at RM40 per seat. After that, choose which seat you would like to sit in the cinema. To choose, simply just click at the seat that you want at the preview of the cinema that are shown on the system.



Date: 20/02/2022

Time: ○ 11 :00 a.m ● 12 :00 p.m ● 1 :00 p.m ● 2 :00 p..m ● 5 :00 p..m ● 8 :00 p.m

Ticket Type

- Single: Adult (RM 10) 2, Kids (RM 6) 1
- Twin (RM 40): 0

Seats: ☑ C4 ☑ C5 ☑ C6

Tax	SubTotal	Total
RM 0.26	RM 26.00	RM 26.26

```
********************************
    Cinema Ticketing System
********************************
          Musyrik (P13)
Reference : 4786
Date : 20/02/2022
Time : 11:00 a.m
Hall : 3
Ticket Type : Single
Seat : C6C5C4
Adult : 2
Kids  : 1
Tax      : RM 0.26
SubTotal : RM 26.00
Total    : RM 26.26

********************************
  Thank you, hope you enjoy it
```

Lastly, click at the total button that is located the bottom side of the system once you are confirm with your order. Then, simply just press the pay button to pay the tickets. Once you are done with the payment, our system will print the ticket information for your movie.