



Department of Computer Science and Engineering
East West University, Dhaka, Bangladesh.

Object Oriented Programming-CSE110(6)

Topic: Project (Course Selection Management System)

Submitted To

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Objective:

This project will help students choose the courses they want. In addition, management can add new classes. They are also allowed to remove their classes anytime. We believe this project will help students make a difference in their lives. In addition, the project contains much information. We hope everybody will like this project.

Introduction:

In this project we used Java Swing and its characteristics to create a Course Selection Management System. Java and Object-Oriented Programming concepts are highlighted there. In this project, we used JFrame, JButton, JTable and so on.

We have used different class names. Every class contains at least one window. Hence, we can say we have more than 10 windows in our project. Here is the names of class that we used in our project:

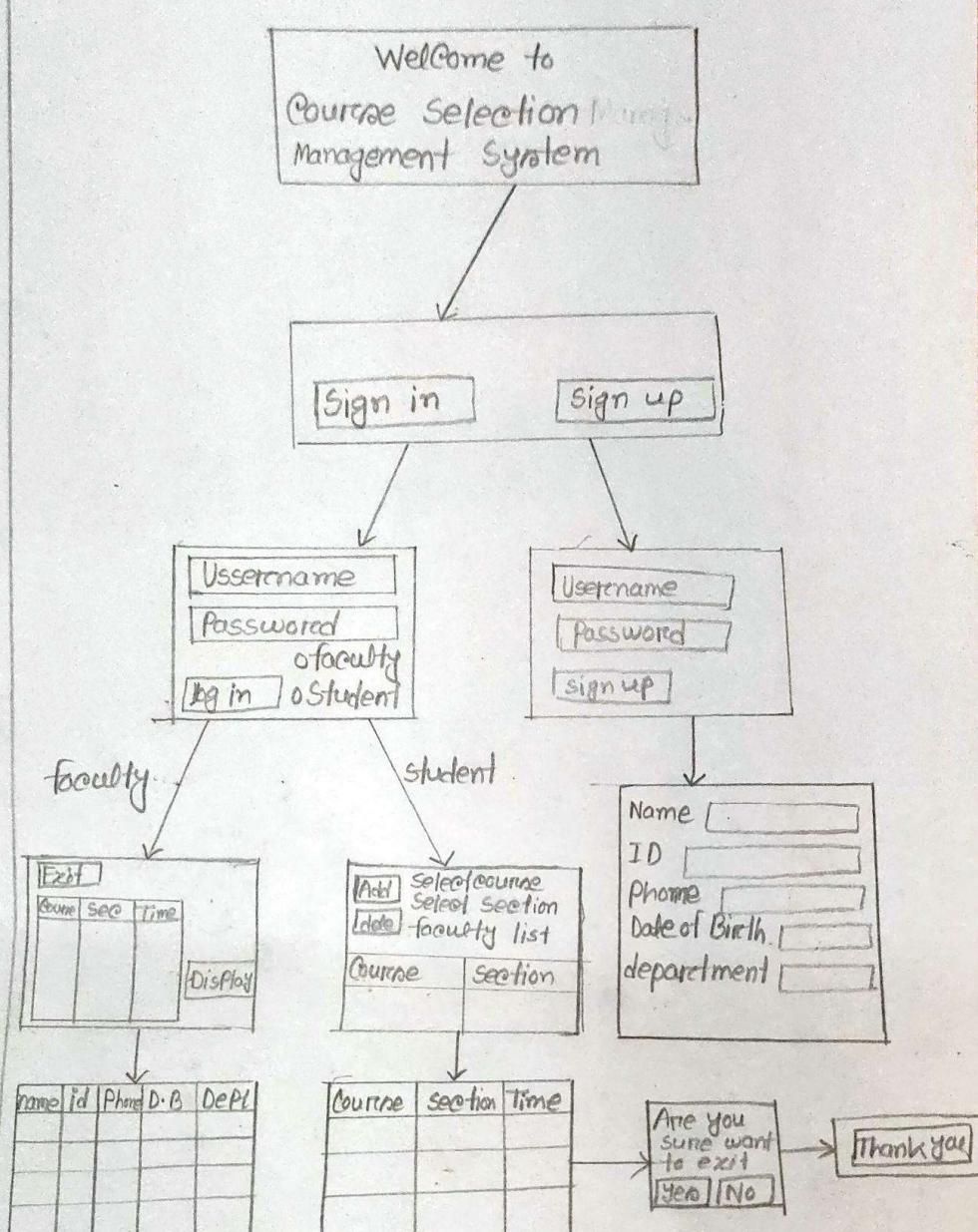
- 1) Welcome
- 2) FirstWindow
- 3) SecondWindow
- 4) ThirdWindow
- 5) FourthWindow
- 6) FifthWindow
- 7) FacultyList
- 8) StudentList
- 9) Exit
- 10) LetUsKnow

Manuel:

Faculty or Authority can add/remove courses with the help of our project.

Students can choose courses. Also they can drop their courses. If they add their details. Authority will be able to see their information.

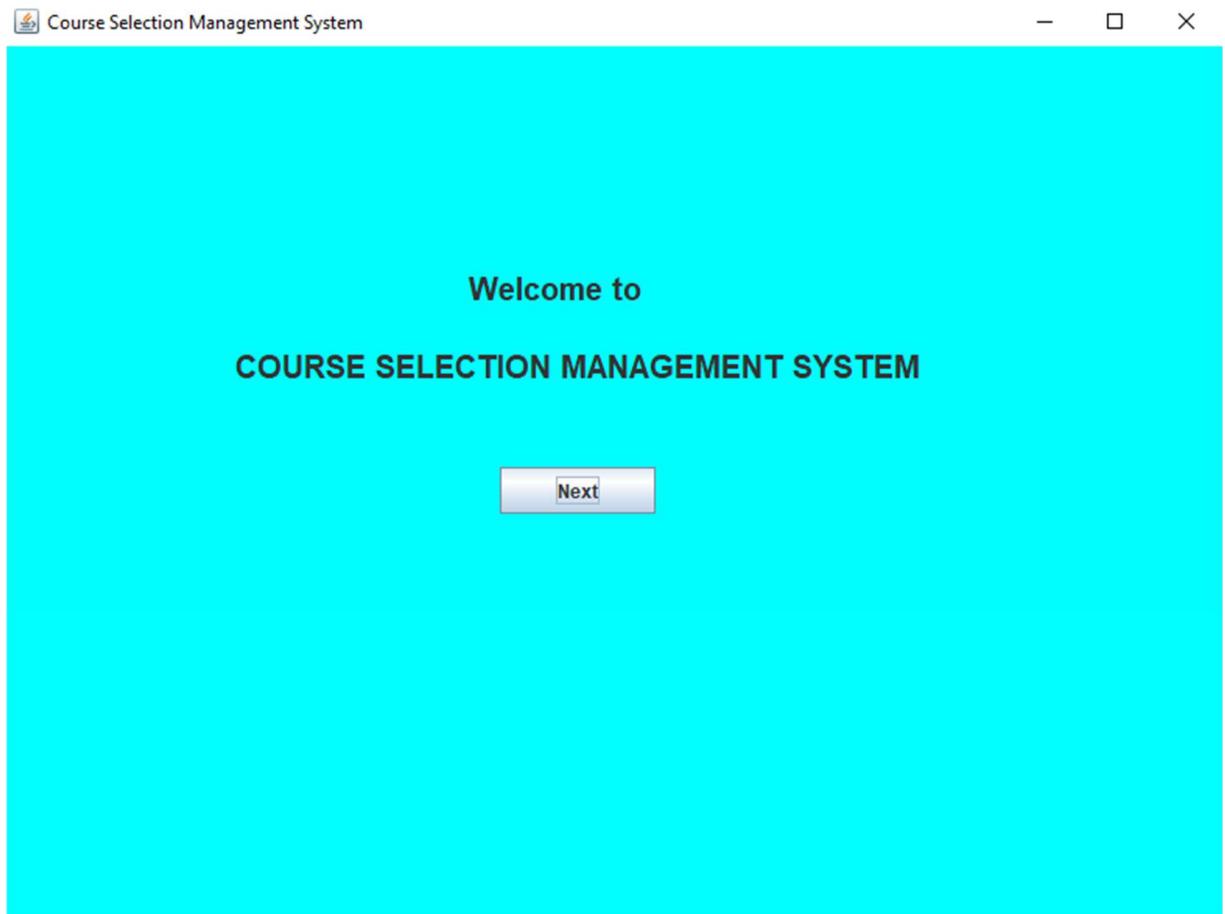
Project Plan:



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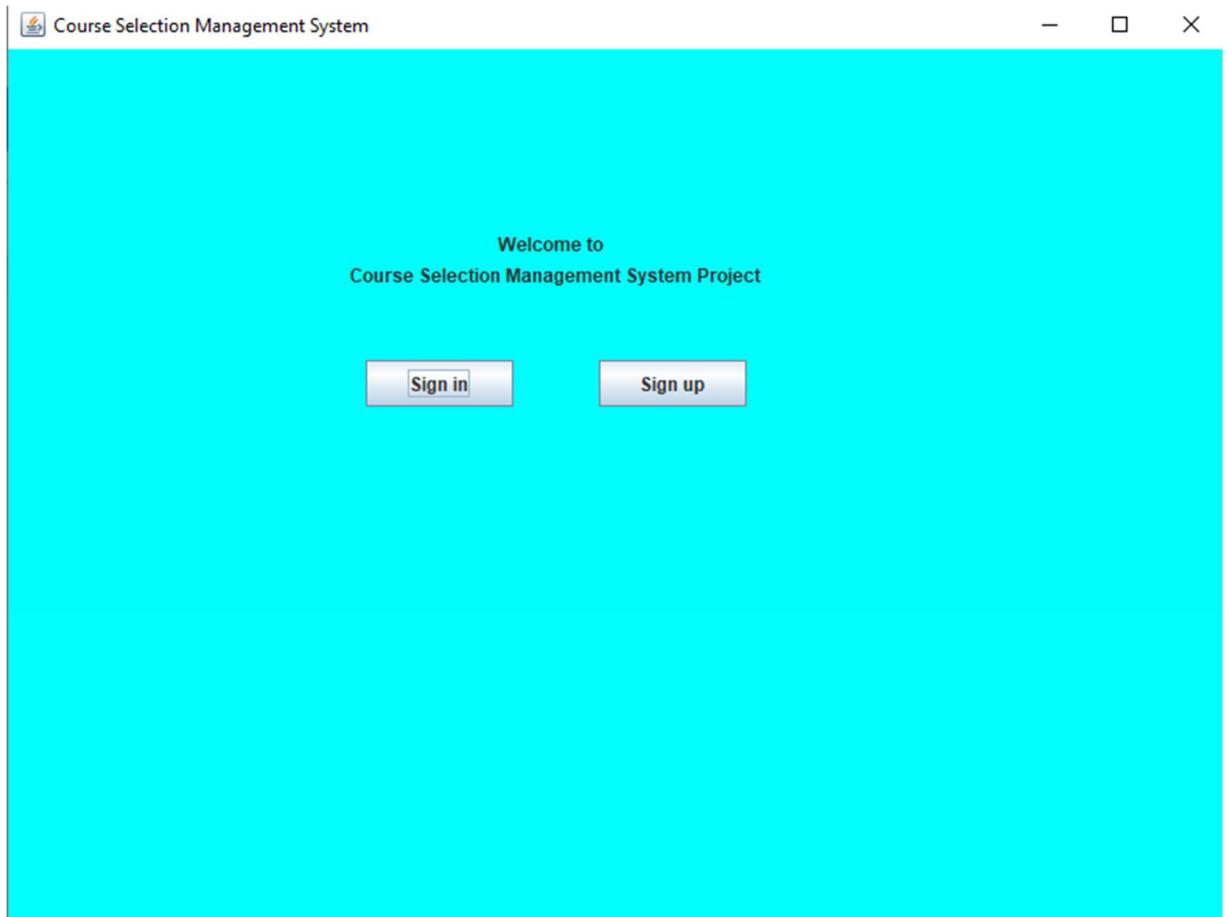
How Project Works

- 1) **Welcome Window:** This window will welcome its user. To start the software, users need to click “Next”.



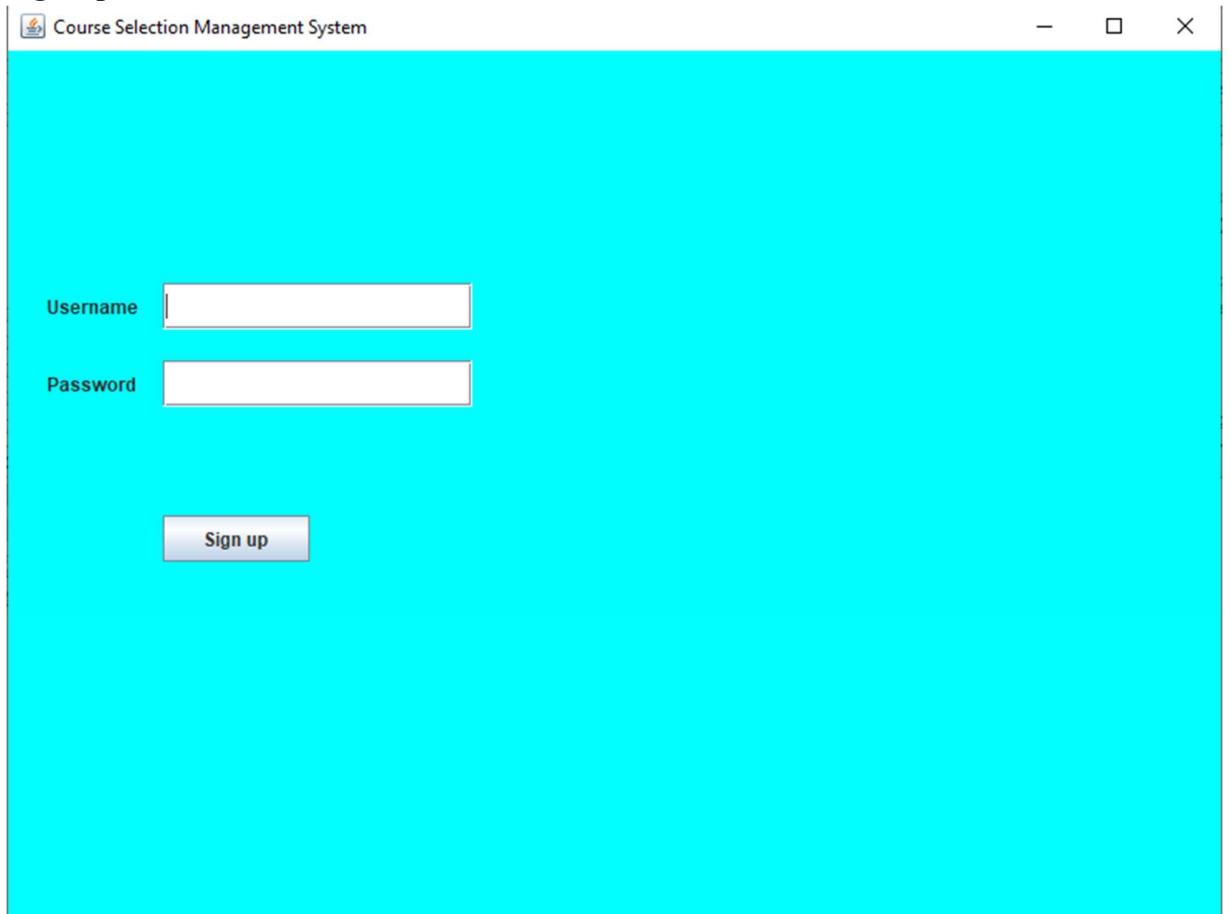
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2) Sign In/ Sign Up Window:



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3) Sign Up Window:



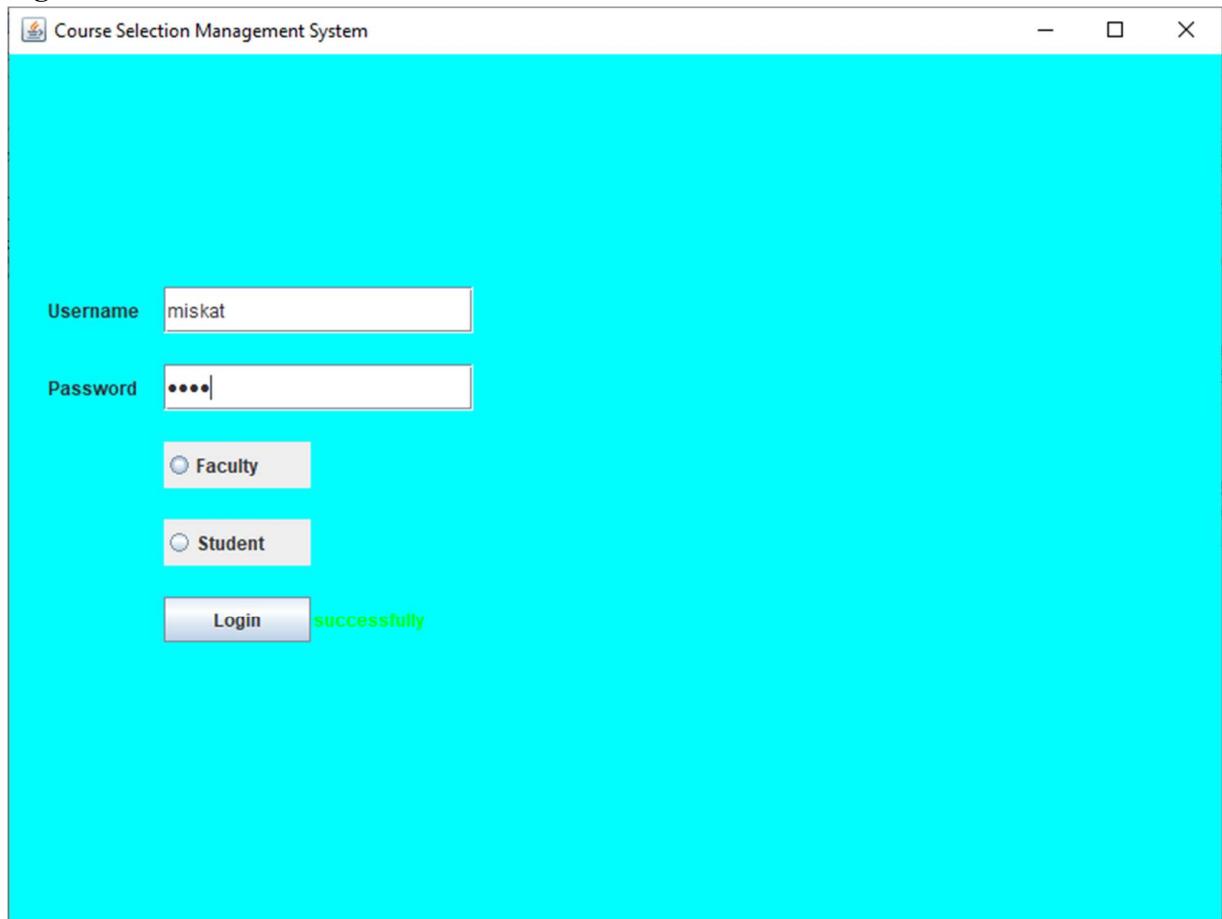
When we create an account successfully, it will show successfully and will return us to the Sign In window.

successfully

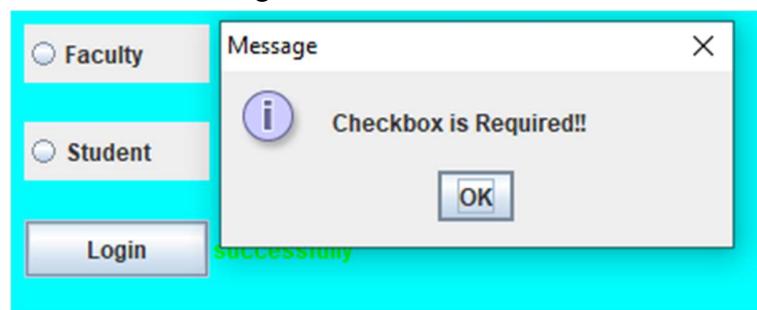
All the information will be collected in our *txt* file.

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4) Sign In Window:

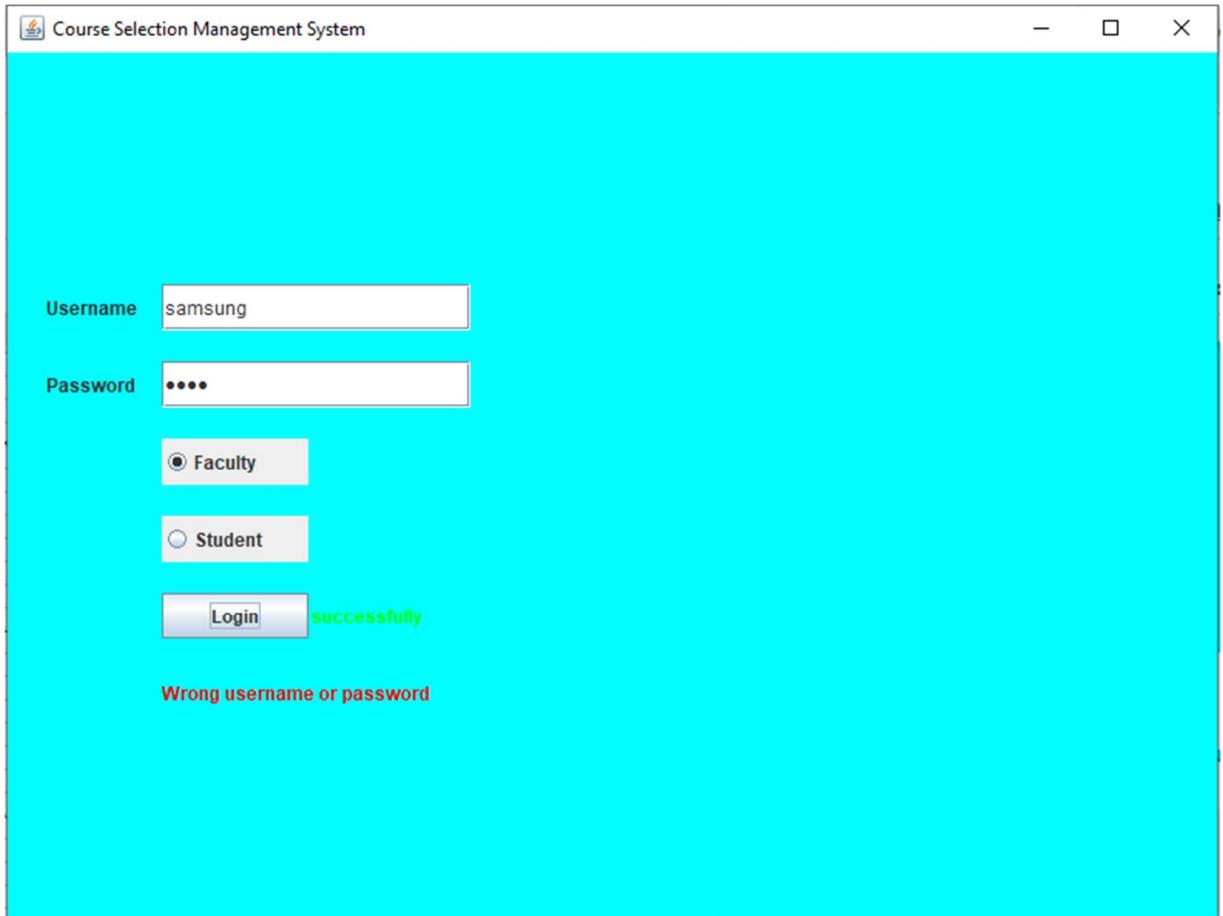


When we tried to login without checkbox,



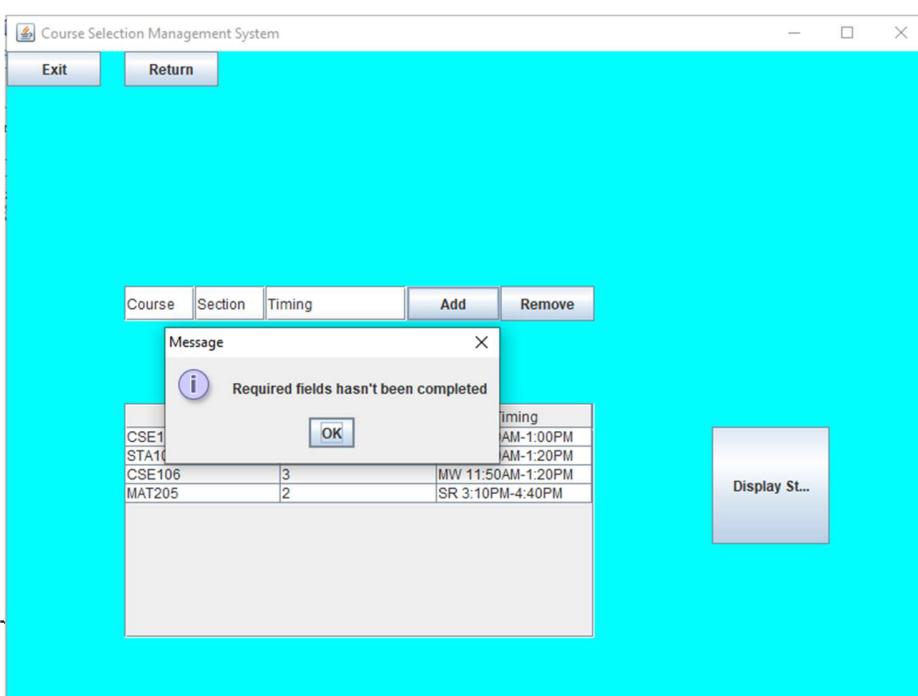
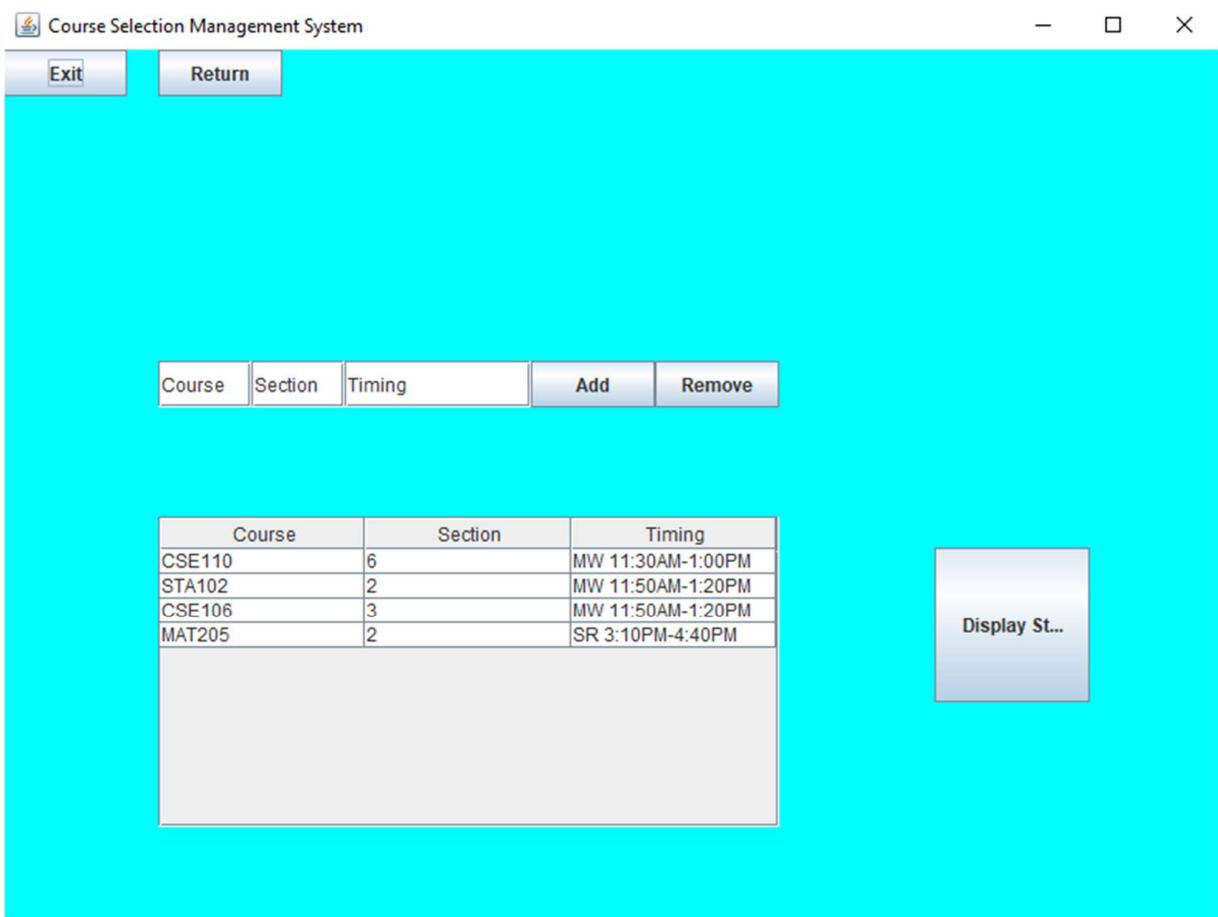
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When we enter the wrong username or password.



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- 5) Faculty Window:** Faculty can add/remove courses. Also they can see students' profiles by clicking on the Display button. Also they can exit the project from this window. They can get back to the 4th window.



ossain8.

Please be careful while using Add. You must fill in all the information. Click “Display Students” to open the next window.

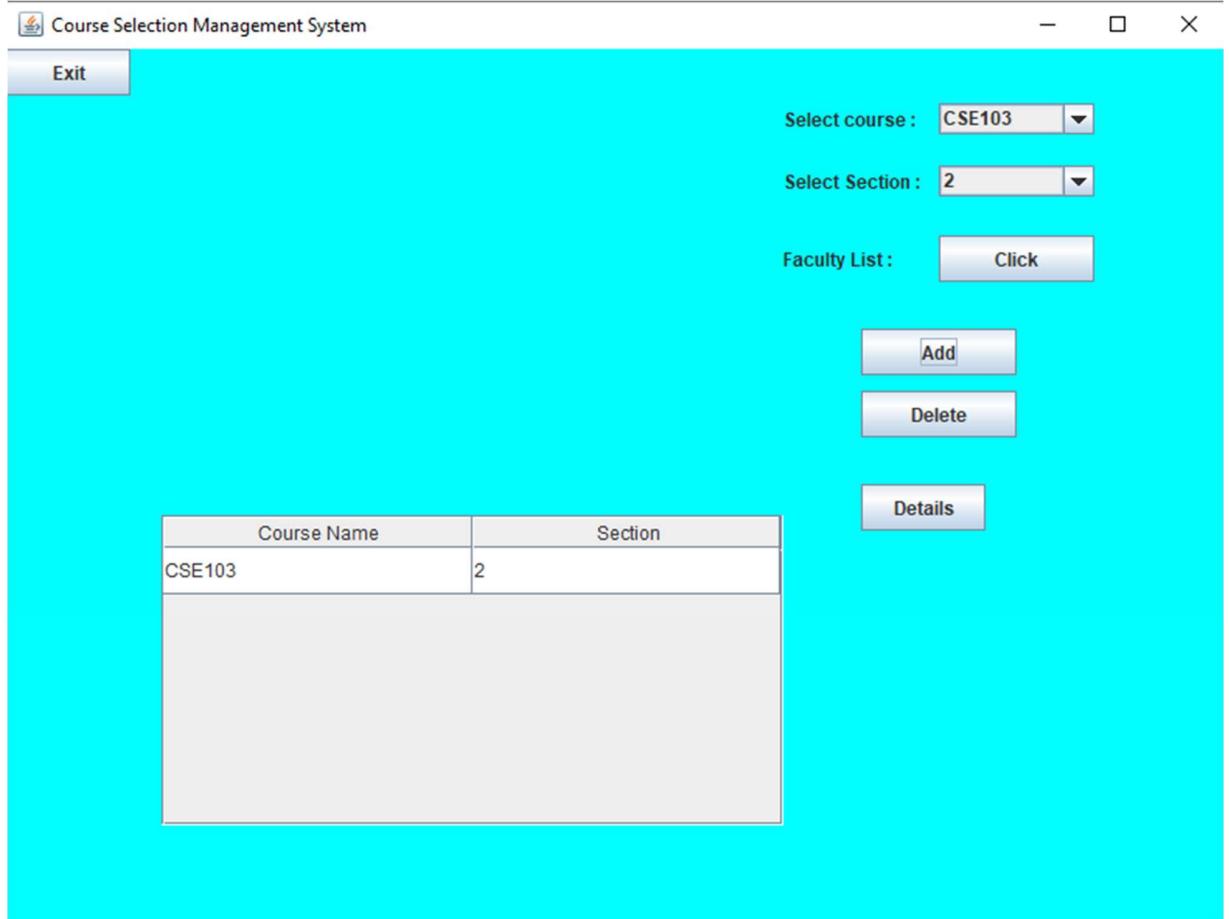
- 6) **Students Profile Window:** This table gets data from txt file and Students Information Window.

The screenshot shows a Windows application window titled "Course Selection Management System". At the top left is a logo of a book with a graduation cap. At the top right are standard window control buttons for minimize, maximize, and close. Below the title bar is a toolbar with a single button labeled "Return". The main area contains a table titled "Students Profile" with the following data:

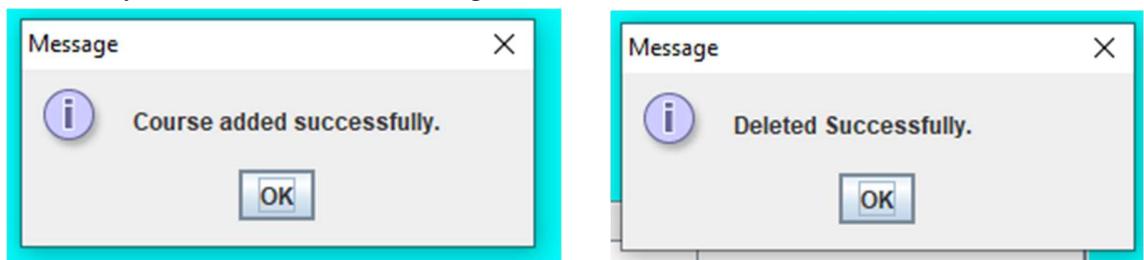
Name	ID	Phone	Date of Birth	Department
Md. Miskat ...	2021-2-60-1...	01940*****	2-April	CSE
Anika	2021	019	1-Feb	ECE

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7) Add/Remove Courses (Students View) Window:



When they add or remove courses, it gives confirmation.



When we click the Faculty list, the next windows open.

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8) Faculty List:

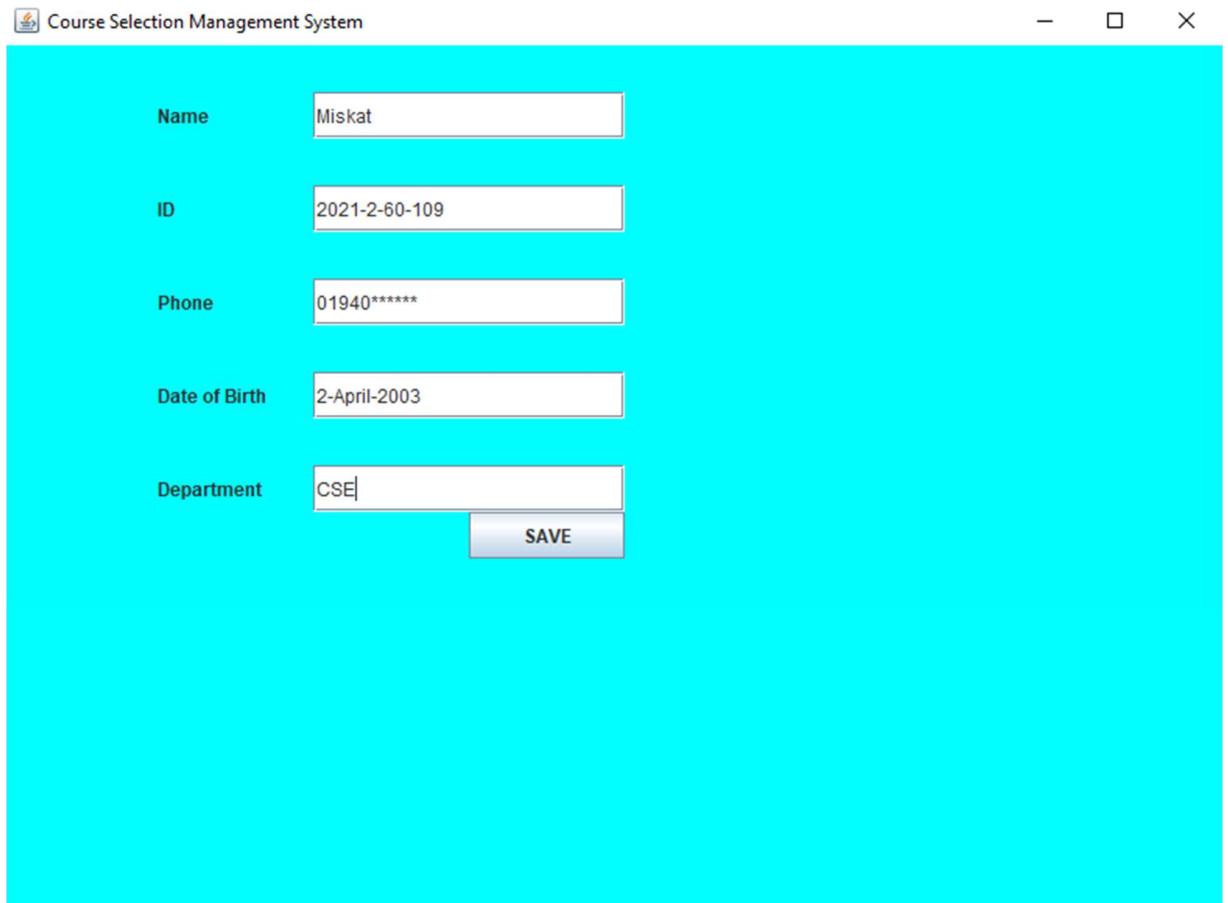
The screenshot shows a window titled "Course Selection Management System". Inside the window, there is a table with three columns: "Course", "Section", and "Timing". The table contains the following data:

Course	Section	Timing
CSE110	6	MW 11:30AM-1:00PM
STA102	2	MW 11:50AM-1:20PM
CSE106	3	MW 11:50AM-1:20PM
MAT205	2	SR 3:10PM-4:40PM

Below the table, there is a "Return" button.

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- 9) Students Information Window:** Students can add their information by clicking “Details” button in *Add/Remove Courses (Students View) Window*

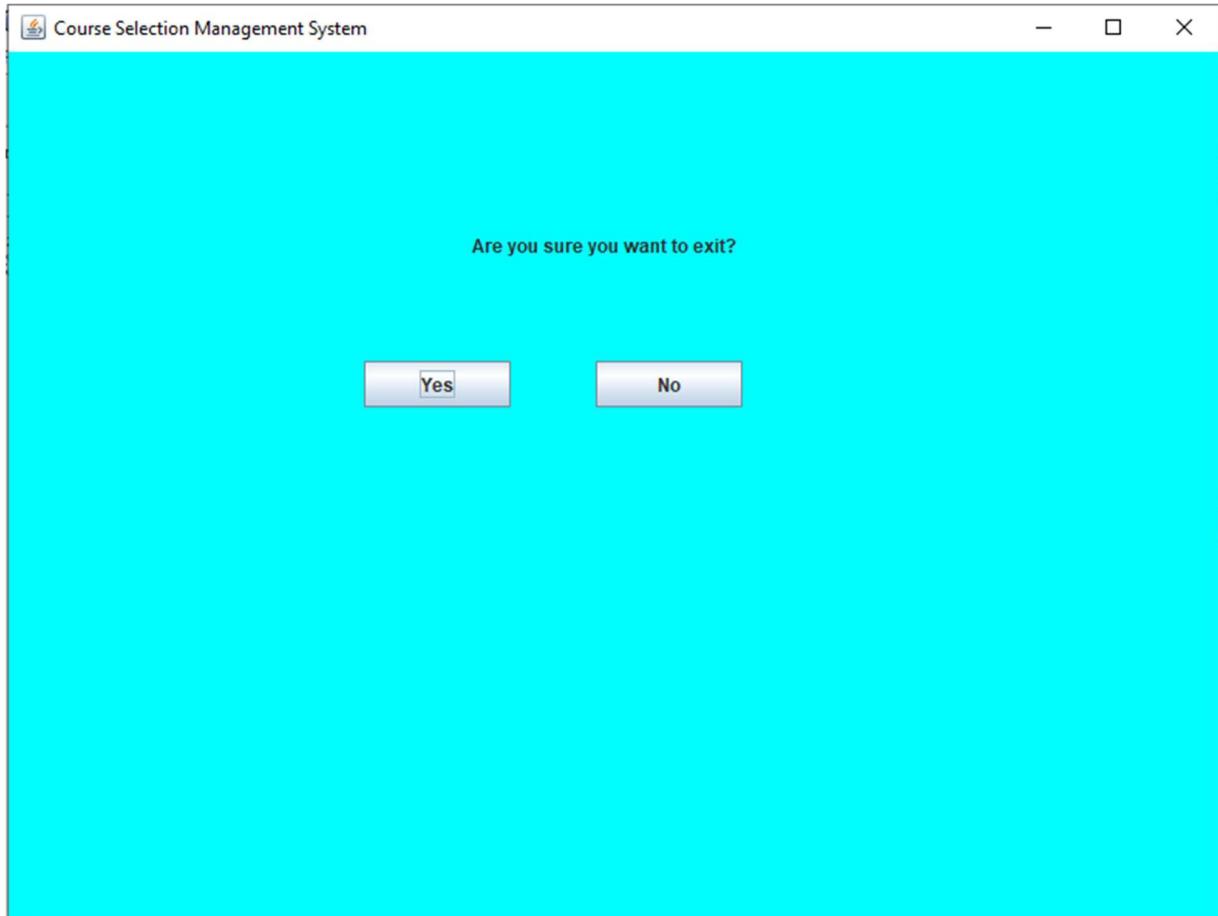


All the details will be saved in the txt file. Faculty can see it anytime.

10) Exit Window: We can exit the software using different windows.

Faculty Window

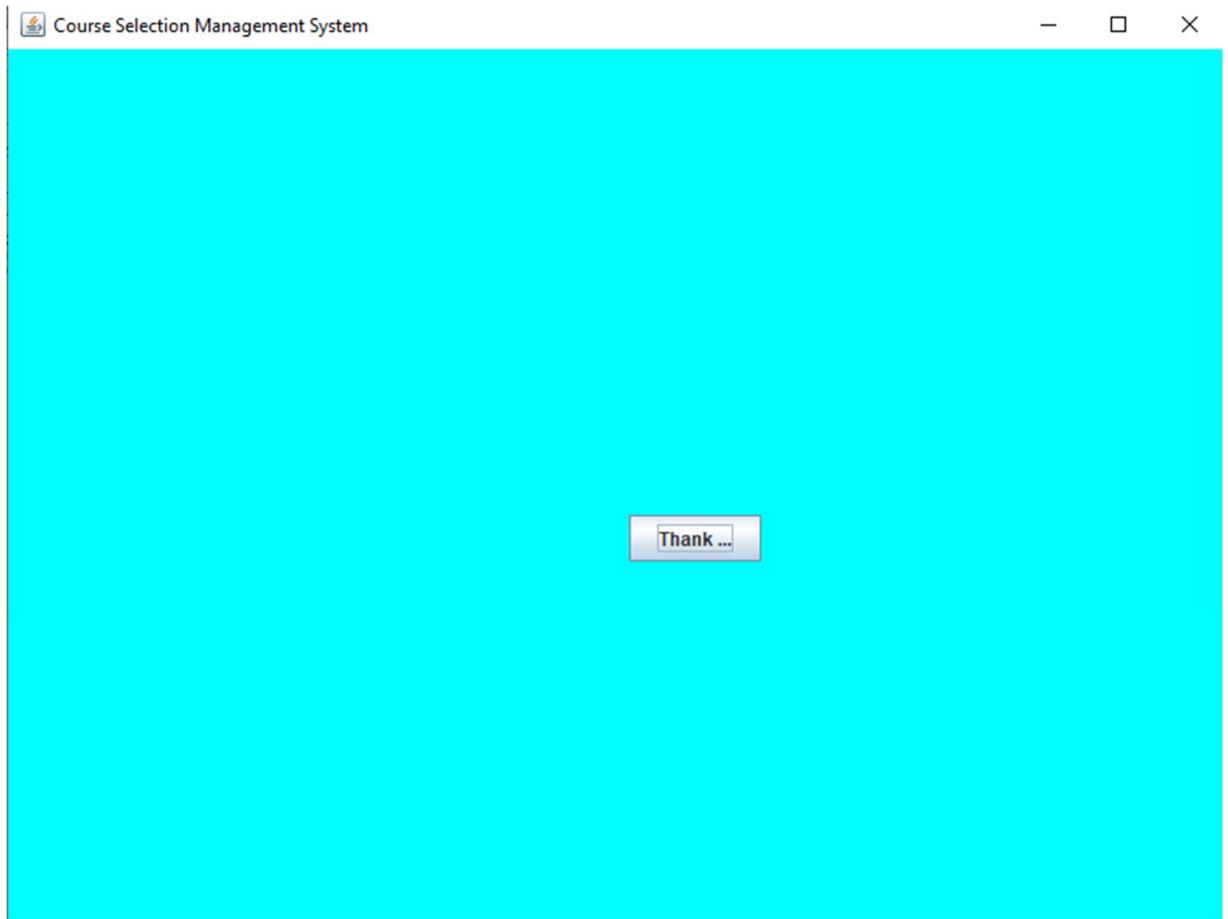
Add/Remove Courses (Students View) Window



When we click the “Yes” button then the Thank You Window will come.

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11) Thank You Window:



When we click the Thank You button, the program will be stopped.

Conclusion:

This project taught us how to work with Java Swing. Also we learned how to deal with files. If there had been more time, the project would have been more precise. We tried to learn quickly and apply these things in our report. While completing this project, we faced some difficulties. One of the significant difficulties was we did not get enough time. Second, we were never given the right to visit the university lab anytime, which cost us time. But we overcame it and reported back on the project. It was a new experiment and we really liked it.

Code:

```
package aproject;

import java.awt.Color;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.io.File;
import java.io.FileNotFoundException;
import java.io.FileReader;
import java.io.FileWriter;
import java.io.IOException;
import java.io.PrintWriter;
import java.util.Scanner;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.*;
import javax.swing.table.DefaultTableModel;
import java.awt.Color;
import java.awt.Font;

class FirstWindow extends JFrame {

    public FirstWindow() {
        this.getContentPane().setBackground(Color.cyan);
        setTitle("Course Selection Management System");
    }
}
```

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```

setSize(800, 600);
setLayout(null);
setVisible(true);
JLabel l1 = new JLabel(" Welcome to");
l1.setBounds(300, 0, 500, 250);
JLabel l2 = new JLabel("Course Selection Management System Project");
l2.setBounds(220, 20, 500, 250);
add(l1);
add(l2);
JButton b1 = new JButton("Sign in");
b1.setBounds(230, 200, 95, 30);
JButton b2 = new JButton("Sign up");
b2.setBounds(380, 200, 95, 30);
add(b1);
add(b2);
b1.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        setVisible(false);
        SecondWindow w2 = new SecondWindow();
    }
});
b2.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        setVisible(false);
        ThirdWindow w3 = new ThirdWindow();
    }
});
setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
}
}


```

```
class SecondWindow extends JFrame {
```

```
String s1, s2;
```

```
public SecondWindow() {
```

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```

this.getContentPane().setBackground(Color.cyan);
setTitle("Course Selection Management System");
setSize(800, 600);
setLayout(null);
setVisible(true);

JLabel l1 = new JLabel("Username");
l1.setBounds(25, 150, 200, 30);
add(l1);

JLabel l2 = new JLabel("Password");
l2.setBounds(25, 200, 200, 30);
add(l2);

JTextField t1 = new JTextField();
t1.setBounds(100, 150, 200, 30);

JPasswordField t2 = new JPasswordField();
t2.setBounds(100, 200, 200, 30);
add(t1);
add(t2);

JButton b1 = new JButton("Login");
b1.setBounds(100, 350, 95, 30);
add(b1);

JRadioButton r1 = new JRadioButton("Faculty");
JRadioButton r2 = new JRadioButton("Student");
r1.setBounds(100, 250, 95, 30);
r2.setBounds(100, 300, 95, 30);
add(r1);
add(r2);

b1.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        if (r2.isSelected()) {
            try {
                s1 = t1.getText();
                s2 = t2.getText();
                File f = new File("user.txt");
                Scanner input = new Scanner(f);
                for (int i = 0; i < 10; i++) {

```

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```

String user = input.nextLine();
String password = input.nextLine();
if (s1.equals(user) && s2.equals(password)) {
    setVisible(false);
    FourthWindow w4 = new FourthWindow();
}
}

} catch (FileNotFoundException ex) {
    Logger.getLogger(SecondWindow.class.getName()).log(Level.SEVERE, null, ex);
} catch (Exception f) {
    JLabel l1 = new JLabel("Wrong username or password.");
    l1.setBounds(100, 290, 200, 30);
    l1.setForeground(Color.red);
    add(l1);
}
} else if (r1.isSelected()) {
try {
    s1 = t1.getText();
    s2 = t2.getText();
    File f = new File("faculty.txt");
    Scanner input = new Scanner(f);
    for (int i = 0; i < 10; i++) {
        String user = input.nextLine();
        String password = input.nextLine();
        if (s1.equals(user) && s2.equals(password)) {
            setVisible(false);
            FifthWindow w5 = new FifthWindow();
        }
    }
} catch (FileNotFoundException ex) {
    Logger.getLogger(SecondWindow.class.getName()).log(Level.SEVERE, null, ex);
} catch (Exception f) {
    JLabel l1 = new JLabel("Wrong username or password.");
    l1.setBounds(100, 400, 200, 30);
    l1.setForeground(Color.red);
    add(l1);
}
}

```

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```

    }

} else {
    JFrame f = new JFrame();
    JOptionPane.showMessageDialog(f, "Checkbox is Required!!");

}

});

setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
}

}

class ThirdWindow extends JFrame {

String s1, s2;

public ThirdWindow() {
    this.getContentPane().setBackground(Color.cyan);
    setTitle("Course Selection Management System");
    setSize(800, 600);
    setLayout(null);
    setVisible(true);
    JLabel l1 = new JLabel("Username");
    l1.setBounds(25, 150, 200, 30);
    add(l1);
    JLabel l2 = new JLabel("Password");
    l2.setBounds(25, 200, 200, 30);
    add(l2);
    JTextField t1 = new JTextField();
    t1.setBounds(100, 150, 200, 30);
    JPasswordField t2 = new JPasswordField();
    t2.setBounds(100, 200, 200, 30);

    JButton b1 = new JButton("Sign up");
    b1.setBounds(100, 300, 95, 30);
}

```

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```

        add(t1);

        add(t2);

        add(b1);

        b1.addActionListener(new ActionListener() {

            public void actionPerformed(ActionEvent e) {

                try {

                    FileWriter f = new FileWriter("user.txt", true);

                    PrintWriter p = new PrintWriter(f);

                    s1 = t1.getText();

                    s2 = t2.getText();

                    p.println(s1);

                    p.println(s2);

                    p.close();

                    setVisible(false);

                    SecondWindow w2 = new SecondWindow();

                    JLabel l1 = new JLabel("Account created successfully");

                    l1.setBounds(100, 350, 200, 30);

                    l1.setForeground(Color.green);

                    w2.add(l1);

                } catch (IOException ex) {

                    Logger.getLogger(ThirdWindow.class.getName()).log(Level.SEVERE, null, ex);

                }

            }

        });

        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

    }

}

class FourthWindow extends JFrame implements ActionListener {

    String section[] = {"Section", "1", "2", "3", "4", "5", "6"};

    String course[] = {"Courses", "CSE103", "CSE106", "CSE110", "MAT101", "MAT102", "MAT104", "ENG101"};

```

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```

JComboBox c = new JComboBox(course);
JComboBox s = new JComboBox(section);

JTable table;
ScrollPane scroll;
DefaultTableModel model;
 JButton b1 = new JButton("Add");
 JButton b3 = new JButton("Delete");
 JButton see_FList = new JButton("Click");

String column[] = {"Course Name", "Section"};
String row[] = new String[2];

FourthWindow() {
    this.getContentPane().setBackground(Color.cyan);
    try {
        setTitle("Course Selection Management System");
        this.setSize(800, 600);
        JLabel name, id, phn, birth, dept, addc, sec, cg, list;
        File g = new File("studentdetails.txt");
        Scanner sc = new Scanner(g);
        addc = new JLabel("Select course :");
        addc.setBounds(500, 30, 100, 30);
        sec = new JLabel("Select Section :");
        sec.setBounds(500, 70, 100, 30);
        list = new JLabel("Faculty List :");
        list.setBounds(500, 120, 100, 30);
        c.setBounds(600, 35, 100, 20);
        s.setBounds(600, 75, 100, 20);
        see_FList.setBounds(600, 120, 100, 30);
        b1.setBounds(550, 180, 100, 30);
        b3.setBounds(550, 220, 100, 30);
        table = new JTable();
        model = new DefaultTableModel();
        model.setColumnIdentifiers(column);
        table.setModel(model);
    }
}

```

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```

table.setRowHeight(30);
scroll = new JScrollPane(table);
scroll.setBounds(100, 300, 400, 200);
this.add(c);
this.add(addc);
this.add(sec);
this.add(s);
this.add(b1);
this.add(b3);
this.add(scroll);
this.add(see_FList);
this.add(list);
b1.addActionListener(this);
b3.addActionListener(this);
see_FList.addActionListener(this);
this.setLayout(null);
this.setVisible(true);
this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
JButton b4 = new JButton("Exit");
b4.setBounds(0, 0, 80, 30);
add(b4);
b4.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        setVisible(false);
        Exit wel = new Exit();
    }
});
JButton b5 = new JButton("Details");
b5.setBounds(550, 280, 80, 30);
add(b5);
b5.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        setVisible(false);
        Signup s = new Signup();
    }
});

```

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```

        } catch (FileNotFoundException ex) {
            Logger.getLogger(FourthWindow.class.getName()).log(Level.SEVERE, null, ex);
        }
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    }

    public void actionPerformed(ActionEvent e) {
        if (e.getSource() == b1) {

            row[0] = c.getSelectedItem().toString();
            row[1] = s.getSelectedItem().toString();

            model.addRow(row);
            JOptionPane.showMessageDialog(this, "Course added successfully.");
        } else if (e.getSource() == b3) {
            int select_row = table.getSelectedRow();

            if (select_row >= 0) {

                model.removeRow(select_row);
                JOptionPane.showMessageDialog(this, "Deleted Successfully.");
            } else {
                JOptionPane.showMessageDialog(null, "No row has been selected");
            }
        } else {
            this.setVisible(false);
            FacultyList f = new FacultyList();
        }
    }

}

class FifthWindow extends JFrame {

```

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```

int i = 0;

public FifthWindow() {
    this.getContentPane().setBackground(Color.cyan);
    try {
        setTitle("Course Selection Management System");
        setSize(800, 600);
        setLayout(null);
        setVisible(true);
        JTextField t1 = new JTextField("Course");
        t1.setBounds(100, 200, 60, 30);
        add(t1);
        JTextField t2 = new JTextField("Section");
        t2.setBounds(160, 200, 60, 30);
        add(t2);
        JTextField t3 = new JTextField("Timing");
        t3.setBounds(220, 200, 120, 30);
        add(t3);

        File g = new File("course.txt");
        Scanner sc = new Scanner(g);
        FileWriter f = new FileWriter("course.txt", true);
        PrintWriter p = new PrintWriter(f);
        JButton b1 = new JButton("Add");
        b1.setBounds(340, 200, 80, 30);
        JButton b2 = new JButton("Display Student");
        b2.setBounds(600, 320, 100, 100);
        add(b1);
        add(b2);

        String[][] data = new String[0][3];
        String[] column = {"Course", "Section", "Timing"};
        DefaultTableModel model = new DefaultTableModel(data, column);
        JTable jt = new JTable(model) {
            public boolean isCellEditable(int data, int column) {
                return false;
            }
        }
    }
}

```

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```

        }

    });

jt.setBounds(30, 40, 200, 300);
jt.setSelectionMode(javax.swing.ListSelectionModel.SINGLE_SELECTION);
JButton b3 = new JButton("Remove");
b3.setBounds(420, 200, 80, 30);
add(b3);

JButton b4 = new JButton("Exit");
b4.setBounds(0, 0, 80, 30);
add(b4);

b4.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        setVisible(false);
        Exit wel = new Exit();
    }
});

JButton b5 = new JButton("Return");
b5.setBounds(100, 0, 80, 30);
add(b5);

b5.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        setVisible(false);
    }
});

SecondWindow w = new SecondWindow();
}

});
};

b3.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent z) {
        System.out.println(jt.getSelectedRow());
        int s = jt.getSelectedRow() * 3;
        removeRecord("course.txt", s);
        if (jt.getSelectedRow() != -1) {
            model.removeRow(jt.getSelectedRow());
            JOptionPane.showMessageDialog(null, "Selected row deleted successfully");
        }
    }
});

```

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```

        }

    }

});

JScrollPane scroll = new JScrollPane(jt);
scroll.setBounds(100, 300, 400, 200);
add(scroll);

while (sc.hasNext()) {

    String[] data1 = new String[3];
    data1[0] = sc.nextLine();
    data1[1] = sc.nextLine();
    data1[2] = sc.nextLine();
    model.addRow(data1);
}

b1.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        int j = 0;
        String y1 = t1.getText();
        String y2 = t2.getText();
        String y3 = t3.getText();
        if (y1.contains("Course") || y1.contains("") || y2.contains("Section") || y2.contains("") || y3.contains("Timing") || y3.contains("")) {
            JOptionPane.showMessageDialog(null, "Required fields hasn't been completed");
        } else {
            String s1 = t1.getText();
            String s2 = t2.getText();
            String s3 = t3.getText();
            p.println(s1);
            p.println(s2);
            p.println(s3);
            p.close();
            String[] data1 = new String[3];
            data1[0] = s1;
            data1[1] = s2;

```

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```

        data1[2] = s3;
        model.addRow(data1);

    }

}

});

b2.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent z) {

        StudentList w9 = new StudentList();
        setVisible(false);

    }

});

} catch (IOException ex) {
    Logger.getLogger(FifthWindow.class.getName()).log(Level.SEVERE, null, ex);
}

setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
}

public void removeRecord(String filepath, int positionOfTerm) {
    String tempFile = "temp.txt";
    File oldFile = new File(filepath);
    File newFile = new File(tempFile);
    try {
        int i = 0;
        String[] junk = new String[100];
        FileWriter f = new FileWriter(tempFile, true);
        PrintWriter p = new PrintWriter(f);

        Scanner in = new Scanner(oldFile);
        while (in.hasNext()) {
            if (positionOfTerm == i || positionOfTerm + 1 == i || positionOfTerm + 2 == i) {
                junk[i] = in.nextLine();
            }
        }
    }
}

```

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```

    } else {
        p.println(in.nextLine());
    }
    i++;
}
in.close();
p.close();
f.close();
oldFile.delete();
File dump = new File(filepath);
newFile.renameTo(dump);
} catch (Exception e) {
}

}

}

class FacultyList extends JFrame implements ActionListener {

FacultyList() {

this.getContentPane().setBackground(Color.cyan);

try {
setTitle("Course Selection Management System");
this.setSize(800, 600);
String[][] data = new String[0][3];
String[] column = {"Course", "Section", "Timing"};
DefaultTableModel model = new DefaultTableModel(data, column);
JTable jt = new JTable(model) {
    public boolean isCellEditable(int data, int column) {
        return false;
    }
};

File g = new File("course.txt");
Scanner sc = new Scanner(g);

```

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```

while (sc.hasNext()) {

    String[] data1 = new String[3];
    data1[0] = sc.nextLine();
    data1[1] = sc.nextLine();
    data1[2] = sc.nextLine();
    model.addRow(data1);
}

JScrollPane sp = new JScrollPane(jt);
sp.setBounds(30, 40, 650, 200);

JButton b = new JButton("Return");
b.setBounds(300, 300, 100, 30);

b.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {

        setVisible(false);
        FourthWindow back = new FourthWindow();

    }
});

this.add(sp);
this.add(b);
this.setLayout(null);
this.setVisible(true);
this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
} catch (FileNotFoundException ex) {
    Logger.getLogger(FacultyList.class.getName()).log(Level.SEVERE, null, ex);
}
}

public void actionPerformed(ActionEvent e) {
    throw new UnsupportedOperationException("Not supported yet.");
}

```

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```

        }

    }

class StudentList extends JFrame {

    public StudentList() {
        setTitle("Course Selection Management System");
        this.getContentPane().setBackground(Color.cyan);
        try {
            setSize(800, 600);
            setLayout(null);
            setVisible(true);
            String[][] data = new String[0][3];
            String[] column = {"Name", "ID", "Phone", "Date of Birth", "Department"};
            DefaultTableModel model = new DefaultTableModel(data, column);
            JTable jt = new JTable(model) {
                public boolean isCellEditable(int data, int column) {
                    return false;
                }
            };
            File g = new File("studentdetails.txt");
            Scanner sc = new Scanner(g);
            while (sc.hasNext()) {
                String[] data1 = new String[5];
                data1[0] = sc.nextLine();
                data1[1] = sc.nextLine();
                data1[2] = sc.nextLine();
                data1[3] = sc.nextLine();
                data1[4] = sc.nextLine();
                model.addRow(data1);
            }
            JScrollPane scroll = new JScrollPane(jt);
            scroll.setBounds(100, 300, 400, 200);
            add(scroll);
        }
    }

    JButton b1 = new JButton("Return");
}

```

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```

b1.setBounds(300, 300, 100, 30);

b1.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {

        setVisible(false);
        FourthWindow back = new FourthWindow();

    }
});

add(b1);

JButton b5 = new JButton("Return");
b5.setBounds(100, 0, 80, 30);
add(b5);

b5.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        setVisible(false);

        FifthWindow w = new FifthWindow();
    }
});

}};

} catch (FileNotFoundException ex) {
    Logger.getLogger(StudentList.class.getName()).log(Level.SEVERE, null, ex);
}

this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
}

}

class Signup extends JFrame {

Signup() {
    setTitle("Course Selection Management System");
    this.getContentPane().setBackground(Color.cyan);
    try {

```

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```

setSize(800, 600);

setLayout(null);

setVisible(true);

JLabel name = new JLabel("Name");

name.setBounds(100, 30, 200, 30);

JLabel id = new JLabel("ID");

id.setBounds(100, 90, 200, 30);

JLabel phn = new JLabel("Phone");

phn.setBounds(100, 150, 200, 30);

JLabel birth = new JLabel("Date of Birth");

birth.setBounds(100, 210, 200, 30);

JLabel dept = new JLabel("Department");

dept.setBounds(100, 270, 100, 30);

JTextField t1, t2, t3, t4, t5;

t1 = new JTextField();

t1.setBounds(200, 30, 200, 30);

t2 = new JTextField();

t2.setBounds(200, 90, 200, 30);

t3 = new JTextField();

t3.setBounds(200, 150, 200, 30);

t4 = new JTextField();

t4.setBounds(200, 210, 200, 30);

t5 = new JTextField();

t5.setBounds(200, 270, 200, 30);

FileWriter f = new FileWriter("studentdetails.txt", true);

PrintWriter p = new PrintWriter(f);

JButton b1 = new JButton("SAVE");

b1.setBounds(300, 300, 100, 30);

add(b1);

add(name);

add(id);

add(phn);

add(birth);

add(dept);

add(t1);

add(t2);

```

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```

        add(t3);
        add(t4);
        add(t5);
        b1.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                String s1 = t1.getText();
                String s2 = t2.getText();
                String s3 = t3.getText();
                String s4 = t4.getText();
                String s5 = t5.getText();
                p.println(s1);
                p.println(s2);
                p.println(s3);
                p.println(s4);
                p.println(s5);
                p.close();
                setVisible(false);
                FourthWindow w = new FourthWindow();
            }
        });
    } catch (IOException ex) {
        Logger.getLogger(Signup.class.getName()).log(Level.SEVERE, null, ex);
    }
    this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
}

}

class Exit extends JFrame {

    public Exit() {
        setTitle("Course Selection Management System");
        setSize(800, 600);
    }
}

```

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```

setLayout(null);
setVisible(true);
JLabel l1 = new JLabel("Are you sure you want to exit?");
l1.setBounds(300, 0, 500, 250);
add(l1);
JButton b1 = new JButton("Yes");
b1.setBounds(230, 200, 95, 30);
JButton b2 = new JButton("No");
b2.setBounds(380, 200, 95, 30);
add(b1);
add(b2);
b1.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        setVisible(false);
        LetUsKnow one = new LetUsKnow();
    }
});
b2.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        setVisible(false);
        SecondWindow w2 = new SecondWindow();
    }
});
this.getContentPane().setBackground(Color.cyan);
setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
}
}

class Welcome extends JFrame implements ActionListener {

Welcome() {

JLabel l1 = new JLabel("Welcome to");
JLabel l2 = new JLabel("COURSE SELECTION MANAGEMENT SYSTEM");
l1.setBounds(300, 140, 300, 30);
l2.setBounds(150, 190, 500, 30);

```

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```

this.add(l1);
this.add(l2);

JButton b = new JButton("Next");
b.setBounds(320, 270, 100, 30);
this.add(b);

Font f = new Font(Font.SANS_SERIF, Font.BOLD, 20);
l1.setFont(f);
l2.setFont(f);

b.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {

        setVisible(false);
        FirstWindow w = new FirstWindow();

    }
});

this.getContentPane().setBackground(Color.cyan);
this.setTitle("Course Selection Management System");
this.setLayout(null);
this.setSize(800, 600);
this.setVisible(true);
this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
}

public void actionPerformed(ActionEvent e) {
    throw new UnsupportedOperationException("Not supported yet.");
}

}

class LetUsKnow extends JFrame {

```

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```
public LetUsKnow() {  
    setTitle("Course Selection Management System");  
    setSize(800, 600);  
    setLayout(null);  
    setVisible(true);  
  
    JButton b1 = new JButton("Thank you");  
    b1.setBounds(400, 300, 85, 30);  
    add(b1);  
  
    b1.addActionListener(new ActionListener() {  
        public void actionPerformed(ActionEvent e) {  
            setVisible(false);  
        }  
    });  
  
    this.getContentPane().setBackground(Color.cyan);  
    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);  
}  
}  
  
public class AProject {  
  
    public static void main(String[] args) {  
  
        new Welcome();  
    }  
}
```

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