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| **Assignment no** | 3 |
| **Submission date** | 12-12-2024 |

**Admin login**

Admin login controller class

import javafx.animation.Animation; import javafx.animation.KeyFrame; import javafx.animation.Timeline; import javafx.event.ActionEvent; import javafx.fxml.FXML;

import javafx.fxml.FXMLLoader; import javafx.scene.Node; import javafx.scene.Parent; import javafx.scene.Scene;

import javafx.scene.control.Label;

import javafx.scene.control.PasswordField; import javafx.scene.control.TextField; import javafx.scene.paint.Color;

import javafx.stage.Stage; import javafx.util.Duration;

import java.io.\*;

public class AdminLoginController { @FXML

TextField textField; @FXML

PasswordField passField; @FXML

Label invalidLabel;

File file = new File("AdminLoginUserPass.txt");

public void clickOnFields() {

textField.setOnMouseClicked(event -> { invalidLabel.setText("");

});

passField.setOnMouseClicked(event -> { invalidLabel.setText("");

});

}

public void signIn(ActionEvent event) throws IOException {

if (file.exists()) {

FileReader fr = new FileReader(file); BufferedReader br = new BufferedReader(fr); String line;

boolean flag = false;

while ((line = br.readLine()) != null) { String[] userPassArray = line.split(" ");

if (userPassArray[0].equals(textField.getText()) && userPassArray[1].equals(passField.getText())) {

flag = true; FXMLLoader loader = new

FXMLLoader(getClass().getResource("adminValidLogIn.fxml"));

Parent root = loader.load();

AdminValidLoginController controller = loader.getController(); controller.userName(userPassArray[0]);

Stage stage = (Stage) ((Node) event.getSource()).getScene().getWindow();

Scene scene = new Scene(root); stage.setScene(scene); stage.show();

}

}

if (!flag) {

textField.clear(); passField.clear();

invalidLabel.setStyle("-fx-text-fill: red"); invalidLabel.setText("Invalid User or Password"); blinkingLabel(invalidLabel);

}

} else {

System.*out*.println("File not found");

// System.out.println(file.getPath());

}

}

public void backBtn(ActionEvent event) throws IOException {

FXMLLoader loader = new FXMLLoader(getClass().getResource("landingPage.fxml")); Stage stage = (Stage) ((Node) event.getSource()).getScene().getWindow();

Scene scene = new Scene(loader.load()); stage.setScene(scene);

stage.show();

}

public void blinkingLabel(Label label) { Timeline timeline = new Timeline(

new KeyFrame(Duration.*millis*(500), event -> { if(label.getOpacity()==1.0){

label.setOpacity(0);

}

else{

label.setOpacity(1);

}

})

);

timeline.setCycleCount(10); timeline.play();

}

}

**Admin valid login controller class**

package com.example.portal;

import javafx.event.ActionEvent; import javafx.fxml.FXML;

import javafx.fxml.FXMLLoader; import javafx.scene.Scene;

import javafx.scene.control.Alert; import javafx.scene.control.ButtonType; import javafx.scene.control.Label; import javafx.scene.control.TextField; import javafx.scene.input.MouseEvent; import javafx.scene.layout.AnchorPane; import javafx.scene.layout.BorderPane; import javafx.scene.layout.HBox; import javafx.scene.layout.VBox; import javafx.stage.Stage;

import java.io.\*;

import java.util.ArrayList; import java.util.Iterator; import java.util.List;

public class AdminValidLoginController {

@FXML

HBox logout,dashBoaredBox,studentBox,teacherBox,coursesBox,feesBox,salaryBox; @FXML

BorderPane borderPane; @FXML

Label nameLabel,studentCount; @FXML

AnchorPane dashboredPane,studentPane,studentAddPane,studentDeletePane,studentUpdatePane;

@FXML

VBox addStVbox,delStVbox,updateStVbox; @FXML

TextField stFirstName,stUserName,stPass,stSem,stFees,delStRegField,delStUserField,updateStID,update DelTextFieldName,

updateDelTextFieldPass,updateDelTextFieldFirstName,updateDelTextFieldSem;

List<AnchorPane> panes = new ArrayList<>(); List<HBox> hboxes = new ArrayList<>(); List<Student> students = new ArrayList<>();

File file = new File("studentsData.ser");

ObjectOutputStream os = new ObjectOutputStream(new FileOutputStream(file)); ObjectInputStream is = new ObjectInputStream(new FileInputStream(file));

{

students.add(new Student("Hamza","Hamz1086","1000",1,125000)); students.add(new Student("Shehroz","Malik1100","1040",1,125000)); students.add(new Student("Muzamil","Muzamil106","1600",1,125000)); students.add(new Student("Ahmed","Ahmed186","1002",1,125000));

}

public AdminValidLoginController() throws IOException {

}

@FXML

public void initialize() {

panes.add(dashboredPane); panes.add(studentPane); panes.add(studentAddPane); panes.add(studentDeletePane); panes.add(studentUpdatePane);

hboxes.add(logout); hboxes.add(dashBoaredBox); hboxes.add(studentBox); hboxes.add(teacherBox); hboxes.add(coursesBox); hboxes.add(feesBox); hboxes.add(salaryBox);

byDefaultBlank();

}

public void clickOnDashBoard(MouseEvent event) throws IOException { visiblitityAndStyleStatus(dashboredPane,dashBoaredBox);

}

public void clickOnStudents(MouseEvent event) throws IOException { visiblitityAndStyleStatus(studentPane,studentBox);

}

public void addStudent() throws IOException {

1));

studentCount.setText(String.*valueOf*(Integer.*parseInt*(studentCount.getText()) +

students.add(new

Student(stFirstName.getText(),stUserName.getText(),stPass.getText(), Integer.*parseInt*(stSem.getText()),Integer.*parseInt*(stFees.getText())));

os.writeObject(students); stFirstName.clear(); stUserName.clear(); stPass.clear(); stSem.clear(); stFees.clear(); delStRegField.clear(); delStUserField.clear();

}

public void deleteStudent() throws IOException {

boolean flag = false;

Iterator<Student> iterator = students.iterator(); while(iterator.hasNext()){

Student student = iterator.next(); if(student.getRegNo().equals(delStRegField.getText())){

flag = true;

iterator.remove(); break;

}

}

if(flag){

os.writeObject(students);

Alert alert = new Alert(Alert.AlertType.*INFORMATION*); alert.setTitle("Delete Student"); alert.setHeaderText(null); alert.setContentText("Student Deleted"); alert.showAndWait();

delStRegField.clear(); delStUserField.clear();

}

if(!flag){

Alert alert = new Alert(Alert.AlertType.*INFORMATION*); alert.setTitle("Delete Student"); alert.setHeaderText(null);

alert.setContentText("Re-Check Student ID and User Name"); alert.showAndWait();

}

}

public void stBackBtn(ActionEvent event) throws IOException { visiblitityAndStyleStatus(studentPane,studentBox);

}

public void clickOnAddSt(MouseEvent event) throws IOException { visiblitityAndStyleStatus(studentAddPane,studentBox);

}

public void clickOndelSt(MouseEvent event) throws IOException { visiblitityAndStyleStatus(studentDeletePane,studentBox); System.*out*.println(students);

}

public void clickOnUpdateSt(MouseEvent event) throws IOException { visiblitityAndStyleStatus(studentUpdatePane,studentBox);

}

public void dataByID(ActionEvent event) throws IOException { Iterator<Student> iterator = students.iterator(); while(iterator.hasNext()){

Student student = iterator.next(); if(student.getRegNo().equals(updateStID.getText())){

System.*out*.println(updateStID.getText());

}

}

}

public void clickOnTeachers(MouseEvent event) throws IOException {

// visiblitityAndStyleStatus(teacherPane,teacherBox);

}

public void clickOnCourses(MouseEvent event) throws IOException {

// visiblitityAndStyleStatus(coursesPane,coursesBox);

}

public void clickOnFees(MouseEvent event) throws IOException {

// visiblitityAndStyleStatus(feesPane,feesBox);

}

public void clickOnSalary(MouseEvent event) throws IOException {

// visiblitityAndStyleStatus(salaryPane,salaryBox);

}

private void visiblitityAndStyleStatus(AnchorPane activePane, HBox activeBox) {

panes.forEach(pane -> pane.setVisible(pane.equals(activePane)));

hboxes.forEach(hbox -> {

if (hbox.equals(activeBox)) {

hbox.setStyle("-fx-background-color: #b2b2d6; -fx-text-fill: white; " + "-fx-border-color: black; " +

"-fx-border-width: 1.5px; ");

} else {

hbox.setStyle(null);

}

});

}

public void doLogout(MouseEvent event) throws IOException {

Alert alert = new Alert(Alert.AlertType.*CONFIRMATION*); alert.setTitle("Logout");

alert.setHeaderText(null);

alert.setContentText("Are you sure you want to logout?");

if(alert.showAndWait().get() == ButtonType.*OK*){ FXMLLoader loader = new

FXMLLoader(getClass().getResource("adminLogin.fxml")); Scene scene = new Scene(loader.load());

// Stage stage = (Stage)((Node)event.getSource()).getScene().getWindow(); Stage stage = (Stage)borderPane.getScene().getWindow(); stage.setScene(scene);

stage.show();

}

else {

event.consume();

}

}

public void byDefaultBlank(){ panes.forEach((pane)->{

pane.setVisible(false);

});

}

public void userName(String name){ nameLabel.setText(name);

}

}

**Hello application**

package com.example.portal;

import javafx.application.Application; import javafx.fxml.FXMLLoader;

import javafx.scene.Parent; import javafx.scene.Scene; import javafx.stage.Stage;

import java.io.IOException;

public class HelloApplication extends Application { @Override

public void start(Stage stage) throws IOException { FXMLLoader fxmlLoader = new

FXMLLoader(getClass().getResource("landingPage.fxml")); Parent root = fxmlLoader.load();

Scene scene = new Scene(root);

stage.setScene(scene); stage.show();

}

public static void main(String[] args) {

*launch*();

}

}

**Landing page controller**

package com.example.portal;

import javafx.event.ActionEvent; import javafx.fxml.FXMLLoader; import javafx.scene.Node;

import javafx.scene.Parent; import javafx.scene.Scene;

import javafx.scene.control.Button; import javafx.stage.Stage;

import java.io.IOException;

public class LandingPageController { Button adminBtn;

public void adminLoginPage(ActionEvent event) throws IOException { FXMLLoader fxmlLoader = new

FXMLLoader(getClass().getResource("adminLogin.fxml")); Parent root = fxmlLoader.load();

Stage stage = (Stage)((Node)event.getSource()).getScene().getWindow(); Scene scene = new Scene(root);

stage.setScene(scene); stage.show();

}

public void StudentLoginPage(ActionEvent event) throws IOException { FXMLLoader fxmlLoader = new

FXMLLoader(getClass().getResource("studentLogin.fxml")); Parent root = fxmlLoader.load();

Stage stage = (Stage)((Node)event.getSource()).getScene().getWindow(); Scene scene = new Scene(root);

stage.setScene(scene); stage.show();

}

public void teacherLoginPage(ActionEvent event) throws IOException { FXMLLoader fxmlLoader = new

FXMLLoader(getClass().getResource("teacherLogin.fxml")); Parent root = fxmlLoader.load();

Stage stage = (Stage)((Node)event.getSource()).getScene().getWindow(); Scene scene = new Scene(root);

stage.setScene(scene); stage.show();

}

}

**Labdibg page fxml**

<?xml version="1.0" encoding="UTF-8"?>

<?import javafx.scene.control.Button?>

<?import javafx.scene.control.Label?>

<?import javafx.scene.image.Image?>

<?import javafx.scene.image.ImageView?>

<?import javafx.scene.layout.AnchorPane?>

<?import javafx.scene.text.Font?>

<AnchorPane maxHeight="-Infinity" maxWidth="-Infinity" minHeight="-Infinity" minWidth="- Infinity" prefHeight="400.0" prefWidth="600.0" xmlns[="http://javafx.com/javafx/23.0.1"](http://javafx.com/javafx/23.0.1) xmlns:fx="<http://javafx.com/fxml/1>" fx:controller="com.example.portal.LandingPageController">

<children>

<ImageView fitHeight="70.0" fitWidth="270.0" layoutX="166.0" layoutY="33.0" pickOnBounds="true" preserveRatio="true">

<image>

<Image url="@Pics/logo.png" />

</image></ImageView>

<Label layoutX="258.0" layoutY="138.0" text="Login as">

<font>

<Font name="Arial Black" size="18.0" />

</font>

</Label>

<ImageView fitHeight="120.0" fitWidth="100.0" layoutX="81.0" layoutY="200.0" pickOnBounds="true" preserveRatio="true">

<image>

<Image url="@Pics/adminImage.png" />

</image></ImageView>

<ImageView fitHeight="116.0" fitWidth="116.0" layoutX="244.0" layoutY="188.0" pickOnBounds="true" preserveRatio="true">

<image>

<Image url="@Pics/StudentLogin.png" />

</image></ImageView>

<ImageView fitHeight="116.0" fitWidth="120.0" layoutX="427.0" layoutY="188.0" pickOnBounds="true" preserveRatio="true">

<image>

<Image url="@Pics/TeacherLoginPhoto.png" />

</image></ImageView>

<Button fx:id="adminBtn" layoutX="88.0" layoutY="331.0" mnemonicParsing="false" onAction="#adminLoginPage" styleClass="custom-button" [stylesheets="@landingStyle.css](mailto:stylesheets%3D%22@landingStyle.css)" text="Admin" />

<Button layoutX="254.0" layoutY="331.0" mnemonicParsing="false" styleClass="custom- button" [stylesheets="@landingStyle.css](mailto:stylesheets%3D%22@landingStyle.css)" text="Student" />

<Button layoutX="437.0" layoutY="331.0" mnemonicParsing="false" onAction="#teacherLoginPage" styleClass="custom-button" [stylesheets="@landingStyle.css](mailto:stylesheets%3D%22@landingStyle.css)" text="Teacher" />

</children>

</AnchorPane>

**Admin valid login fxml**

<?xml version="1.0" encoding="UTF-8"?>

<?import javafx.scene.control.Button?>

<?import javafx.scene.control.Label?>

<?import javafx.scene.control.TextField?>

<?import javafx.scene.image.Image?>

<?import javafx.scene.image.ImageView?>

<?import javafx.scene.layout.AnchorPane?>

<?import javafx.scene.layout.BorderPane?>

<?import javafx.scene.layout.HBox?>

<?import javafx.scene.layout.VBox?>

<?import javafx.scene.text.Font?>

<BorderPane fx:id="borderPane" maxHeight="-Infinity" maxWidth="-Infinity" minHeight="- Infinity" minWidth="-Infinity" prefHeight="400.0" prefWidth="600.0" [stylesheets="@styles.css](mailto:stylesheets%3D%22@styles.css)" xmlns=["http://](http://javafx.com/javafx/23.0.1)j[avafx.com/javafx/23.0.1"](http://javafx.com/javafx/23.0.1) xmlns:fx="<http://javafx.com/fxml/1>" fx:controller="com.example.portal.AdminValidLoginController">

<left>

<VBox prefHeight="335.0" prefWidth="184.0" spacing="5" style="-fx-padding: 10;" styleClass="vbox-item" [stylesheets="@AdminValidLoginStyles.css](mailto:stylesheets%3D%22@AdminValidLoginStyles.css)" BorderPane.alignment="CENTER">

<children>

<HBox fx:id="dashBoaredBox" alignment="CENTER\_LEFT" onMouseClicked="#clickOnDashBoard" prefHeight="30.0" prefWidth="186.0" spacing="10"

styleClass="vbox-item">

<children>

<ImageView fitHeight="30.0" fitWidth="30.0" pickOnBounds="true" preserveRatio="true">

<image>

<Image url="@Pics/dashboard.png" />

</image>

</ImageView>

<Label text="Dashboard" />

</children>

</HBox>

<HBox fx:id="studentBox" alignment="CENTER\_LEFT" onMouseClicked="#clickOnStudents" prefHeight="30.0" prefWidth="186.0" spacing="10" styleClass="vbox-item">

<children>

<ImageView fitHeight="30.0" fitWidth="30.0" pickOnBounds="true" preserveRatio="true">

<image>

<Image url="@Pics/download.png" />

</image>

</ImageView>

<Label text="Students" />

</children>

</HBox>

<HBox fx:id="teacherBox" alignment="CENTER\_LEFT" onMouseClicked="#clickOnTeachers" prefHeight="30.0" prefWidth="186.0" spacing="10" styleClass="vbox-item">

<children>

<ImageView fitHeight="30.0" fitWidth="30.0" pickOnBounds="true" preserveRatio="true">

<image>

<Image url="@Pics/1995574.png" />

</image>

</ImageView>

<Label text="Teachers" />

</children>

</HBox>

<HBox fx:id="coursesBox" alignment="CENTER\_LEFT" onMouseClicked="#clickOnCourses" prefHeight="30.0" prefWidth="186.0" spacing="10" styleClass="vbox-item">

<children>

<ImageView fitHeight="30.0" fitWidth="30.0" pickOnBounds="true" preserveRatio="true">

<image>

<Image url="@Pics/book-pencil-260nw-64577620.png" />

</image>

</ImageView>

<Label text="Courses" />

</children>

</HBox>

<HBox fx:id="feesBox" alignment="CENTER\_LEFT" onMouseClicked="#clickOnFees" prefHeight="30.0" prefWidth="186.0" spacing="10" styleClass="vbox-item">

<children>

<ImageView fitHeight="30.0" fitWidth="30.0" pickOnBounds="true" preserveRatio="true">

<image>

<Image url="@Pics/fees-icon-design-vector.png" />

</image>

</ImageView>

<Label text="Fees" />

</children>

</HBox>

<HBox fx:id="salaryBox" alignment="CENTER\_LEFT" onMouseClicked="#clickOnSalary" prefHeight="30.0" prefWidth="186.0" spacing="10" styleClass="vbox-item">

<children>

<ImageView fitHeight="30.0" fitWidth="30.0" pickOnBounds="true" preserveRatio="true">

<image>

<Image url="@Pics/543f.png" />

</image> </ImageView>

<Label text="Salary" />

</children>

</HBox>

<HBox fx:id="logout" alignment="CENTER\_LEFT" onMouseClicked="#doLogout" prefHeight="30.0" prefWidth="186.0" spacing="10" styleClass="vbox-item">

<children>

<ImageView fitHeight="30.0" fitWidth="30.0" pickOnBounds="true" preserveRatio="true">

<image>

<Image url="@Pics/images.png" />

</image>

</ImageView>

<Label text="Logout" />

</children>

</HBox>

</children>

</VBox>

</left>

<center>

<AnchorPane prefHeight="301.0" prefWidth="378.0" BorderPane.alignment="CENTER">

<children>

<AnchorPane fx:id="navBar" prefHeight="76.0" prefWidth="418.0" styleClass="navBar" [stylesheets="@AdminValidLoginStyles.css](mailto:stylesheets%3D%22@AdminValidLoginStyles.css)">

<children>

<ImageView fitHeight="52.0" fitWidth="68.0" layoutX="26.0" layoutY="14.0" pickOnBounds="true" preserveRatio="true">

<image>

<Image url="@Pics/7082541.png" />

</image>

</ImageView>

<Label layoutX="93.0" layoutY="31.0" text="Welcome to Portal">

<font>

<Font size="15.0" />

</font>

</Label>

<ImageView fitHeight="31.0" fitWidth="40.0" layoutX="363.0" layoutY="25.0" pickOnBounds="true" preserveRatio="true">

<image>

<Image url="@Pics/Untitled-3.png" />

</image>

</ImageView>

<Label fx:id="nameLabel" layoutX="291.0" layoutY="31.0" text="Label" />

</children>

</AnchorPane>

<AnchorPane fx:id="dashboredPane" layoutX="1.0" layoutY="75.0" prefHeight="325.0" prefWidth="417.0" [stylesheets="@AdminValidLoginStyles.css](mailto:stylesheets%3D%22@AdminValidLoginStyles.css)">

<children>

<VBox alignment="CENTER" layoutX="226.0" layoutY="14.0" prefHeight="110.0" prefWidth="120.0" spacing="2">

<children>

<ImageView fitHeight="75.0" fitWidth="103.0" pickOnBounds="true"

preserveRatio="true">

18713326.png" />

<image>

<Image url="@Pics/school-teachers-colorful-icon-vector-

</image>

</ImageView>

<Label text="5" />

<Label />

<Label text="Teachers" />

</children>

</VBox>

<VBox alignment="CENTER" layoutX="226.0" layoutY="167.0" prefHeight="133.0" prefWidth="129.0" spacing="2">

<children>

<ImageView fitHeight="56.0" fitWidth="56.0" pickOnBounds="true"

preserveRatio="true">

47383951.png" />

<image>

<Image url="@Pics/calculate-total-cost-concept-icon-vector-

</image>

</ImageView>

<Label text="5" />

<Label />

<Label text="Expenses" />

</children>

</VBox>

<VBox alignment="CENTER" layoutX="50.0" layoutY="167.0" prefHeight="137.0" prefWidth="133.0" spacing="2">

preserveRatio="true">

<children>

<ImageView fitHeight="53.0" fitWidth="61.0" pickOnBounds="true"

<image>

<Image url="@Pics/pngtree-low-fees-turquoise-concept-icon-

picture-image\_7870182%20(1).png" />

</image>

</ImageView>

<Label text="5" />

<Label />

<Label text="Due Fees" />

</children>

</VBox>

<VBox alignment="CENTER" layoutX="50.0" layoutY="14.0" prefHeight="143.0" prefWidth="131.0" spacing="2">

<children>

<ImageView fitHeight="57.0" fitWidth="65.0" pickOnBounds="true"

preserveRatio="true">

<image>

<Image url="@Pics/400-4003680\_registration-for-under-

graduate-student-icon-png.png" />

</image>

</ImageView>

<Label fx:id="studentCount" text="5" />

<Label />

<Label text="Students" />

</children>

</VBox>

</children>

</AnchorPane>

<AnchorPane fx:id="studentPane" layoutY="76.0" prefHeight="324.0" prefWidth="420.0" [stylesheets="@AdminValidLoginStyles.css](mailto:stylesheets%3D%22@AdminValidLoginStyles.css)">

<children>

<VBox fx:id="addStVbox" alignment="CENTER" layoutX="54.0" layoutY="26.0" onMouseClicked="#clickOnAddSt" prefHeight="124.0" prefWidth="138.0">

<children>

<ImageView fitHeight="90.0" fitWidth="103.0" pickOnBounds="true"

preserveRatio="true">

<image>

<Image url="@Pics/35.png" />

</image>

</ImageView>

<Label text="Add Student" />

</children>

</VBox>

<VBox fx:id="delStVbox" alignment="CENTER" layoutX="218.0" layoutY="26.0" onMouseClicked="#clickOnUpdateSt" prefHeight="124.0" prefWidth="138.0">

<children>

<ImageView fitHeight="90.0" fitWidth="103.0" pickOnBounds="true"

preserveRatio="true">

<image>

<Image url="@Pics/3.png" />

</image>

</ImageView>

<Label text="Delete Student" />

</children>

</VBox>

<VBox fx:id="updateStVbox" alignment="CENTER" layoutX="141.0" layoutY="169.0" onMouseClicked="#clickOnUpdateSt" prefHeight="124.0" prefWidth="138.0">

<children>

<ImageView fitHeight="90.0" fitWidth="103.0" pickOnBounds="true"

preserveRatio="true">

<image>

<Image url="@Pics/2%20(2).png" />

</image>

</ImageView>

<Label text="Update Student" />

</children>

</VBox>

</children>

</AnchorPane>

<AnchorPane fx:id="studentAddPane" layoutY="76.0" prefHeight="333.0" prefWidth="418.0" [stylesheets="@studentsStyle.css](mailto:stylesheets%3D%22@studentsStyle.css)">

<children>

<Label layoutX="59.0" layoutY="67.0" />

<Label layoutX="85.0" layoutY="68.0" />

<TextField fx:id="stFees" layoutX="276.0" layoutY="225.0" prefHeight="11.0" prefWidth="105.0" />

<TextField layoutX="276.0" layoutY="179.0" prefHeight="11.0" prefWidth="105.0" />

<TextField fx:id="stPass" layoutX="276.0" layoutY="127.0" prefHeight="11.0" prefWidth="105.0" />

<TextField fx:id="stUserName" layoutX="276.0" layoutY="79.0" prefHeight="11.0" prefWidth="105.0" />

<TextField fx:id="stSem" layoutX="276.0" layoutY="32.0" prefHeight="11.0" prefWidth="105.0" />

<TextField fx:id="stFirstName" layoutX="85.0" layoutY="32.0" prefHeight="11.0" prefWidth="105.0" />

<TextField layoutX="85.0" layoutY="79.0" prefHeight="11.0" prefWidth="105.0" />

<TextField layoutX="85.0" layoutY="127.0" prefHeight="11.0" prefWidth="105.0" />

<TextField layoutX="85.0" layoutY="179.0" prefHeight="11.0" prefWidth="105.0" />

<Label layoutX="2.0" layoutY="36.0" text="First Name" />

<Label layoutX="14.0" layoutY="83.0" text="Last Name" />

<Label layoutX="11.0" layoutY="131.0" text="CNIC" />

<Label layoutX="13.0" layoutY="183.0" text="Reg No" />

<Label layoutX="13.0" layoutY="229.0" text="DOB" />

<Label layoutX="209.0" layoutY="36.0" text="Semester" />

<Label layoutX="207.0" layoutY="83.0" text="Username" />

<Label layoutX="209.0" layoutY="131.0" text="Password" />

<Label layoutX="211.0" layoutY="183.0" text="Program" />

<Label layoutX="212.0" layoutY="229.0" text="Fees" />

<Button layoutX="193.0" layoutY="267.0" mnemonicParsing="false" onAction="#addStudent" text="Add" />

<Button fx:id="studentBackBtn" layoutX="63.0" layoutY="292.0" mnemonicParsing="false" onAction="#stBackBtn" text="Back" />

</children></AnchorPane>

<AnchorPane fx:id="studentUpdatePane" layoutY="75.0" prefHeight="331.0" prefWidth="418.0" [stylesheets="@studentsStyle.css](mailto:stylesheets%3D%22@studentsStyle.css)">

<children>

<TextField fx:id="updateStID" layoutX="148.0" layoutY="23.0" prefHeight="29.0" prefWidth="121.0" />

<TextField fx:id="updateDelTextFieldSem" layoutX="241.0" layoutY="166.0" prefHeight="29.0" prefWidth="121.0" />

<TextField fx:id="updateDelTextFieldPass" layoutX="241.0" layoutY="91.0" prefHeight="29.0" prefWidth="121.0" />

<TextField fx:id="updateDelTextFieldFirstName" layoutX="76.0" layoutY="166.0" prefHeight="29.0" prefWidth="121.0" />

<TextField fx:id="updateDelTextFieldName" layoutX="76.0" layoutY="91.0" prefHeight="29.0" prefWidth="121.0" />

<Button layoutX="276.0" layoutY="22.0" mnemonicParsing="false" onAction="#dataByID" prefHeight="31.0" prefWidth="52.0" text="ID" />

<Button layoutX="183.0" layoutY="221.0" mnemonicParsing="false"

text="Update" />

<Label layoutX="76.0" layoutY="69.0" text="Username" />

<Label layoutX="241.0" layoutY="71.0" text="Password" />

<Label layoutX="76.0" layoutY="142.0" text="First Name" />

<Label layoutX="241.0" layoutY="144.0" text="Semester" />

<Button fx:id="studentBackBtn" layoutX="50.0" layoutY="278.0"

mnemonicParsing="false" onAction="#stBackBtn" text="Back" />

</children></AnchorPane>

<AnchorPane fx:id="studentDeletePane" layoutY="77.0" prefHeight="329.0" prefWidth="418.0" [stylesheets="@studentsStyle.css](mailto:stylesheets%3D%22@studentsStyle.css)">

<children>

<TextField layoutX="149.0" layoutY="102.0" />

<Label layoutX="85.0" layoutY="106.0" text="Reg No" />

<Button layoutX="183.0" layoutY="175.0" mnemonicParsing="false" onAction="#deleteStudent" text="Delete" />

<Button fx:id="studentBackBtn" layoutX="52.0" layoutY="276.0" mnemonicParsing="false" onAction="#stBackBtn" text="Back" />

</children>

</AnchorPane>

</children></AnchorPane>

</center>

</BorderPane>

**Admin login fxml**

<?xml version="1.0" encoding="UTF-8"?>

<?import java.lang.String?>

<?import javafx.scene.control.Button?>

<?import javafx.scene.control.Label?>

<?import javafx.scene.control.PasswordField?>

<?import javafx.scene.control.TextField?>

<?import javafx.scene.image.Image?>

<?import javafx.scene.image.ImageView?>

<?import javafx.scene.layout.AnchorPane?>

<?import javafx.scene.text.Font?>

<AnchorPane maxHeight="-Infinity" maxWidth="-Infinity" minHeight="-Infinity" minWidth="- Infinity" prefHeight="400.0" prefWidth="600.0" xmlns[="http://javafx.com/javafx/23.0.1"](http://javafx.com/javafx/23.0.1) xmlns:fx="<http://javafx.com/fxml/1>" fx:controller="com.example.portal.AdminLoginController">

<children>

<ImageView fitHeight="303.0" fitWidth="300.0" layoutY="98.0" pickOnBounds="true">

<image>

<Image url="@Pics/Adminlogin1%20(1).png" />

</image>

</ImageView>

<ImageView fitHeight="60.0" fitWidth="191.0" layoutX="25.0" layoutY="22.0" pickOnBounds="true" preserveRatio="true">

<image>

<Image url="@Pics/logo.png" />

</image>

</ImageView>

<AnchorPane layoutX="301.0" layoutY="-3.0" prefHeight="406.0" prefWidth="300.0" [stylesheets="@adminLoginStyles.css](mailto:stylesheets%3D%22@adminLoginStyles.css)">

<children>

<Label fx:id="welcomeLabel" layoutX="37.0" layoutY="37.0" prefHeight="26.0" prefWidth="175.0" text="Welcome Back">

<font>

<Font size="19.0" />

</font>

</Label>

<Label fx:id="signinLabel" layoutX="37.0" layoutY="75.0" prefHeight="20.0" prefWidth="133.0" text="Sign in to continue " />

<PasswordField fx:id="passField" layoutX="63.0" layoutY="196.0" onAction="#clickOnFields" onMouseClicked="#clickOnFields" prefHeight="32.0" prefWidth="191.0" />

<TextField fx:id="textField" layoutX="63.0" layoutY="155.0" onMouseClicked="#clickOnFields" prefHeight="32.0" prefWidth="191.0" />

<Button fx:id="signInBtn" layoutX="115.0" layoutY="238.0" mnemonicParsing="false" onAction="#signIn" prefHeight="32.0" prefWidth="87.0" text="Signin" />

<Button fx:id="backBtn" layoutX="37.0" layoutY="331.0" mnemonicParsing="false" onAction="#backBtn" prefHeight="26.0" prefWidth="71.0" text="Back" />

<Label fx:id="invalidLabel" layoutX="73.0" layoutY="128.0" />

</children>

<styleClass>

<String fx:value="password-field" />

<String fx:value="button" />

<String fx:value="root" />

<String fx:value="label" />

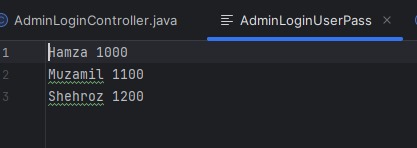
</styleClass>

</AnchorPane>

</children>

</AnchorPane>

**User in file**

****

**Student login part**

**Student login :**

package com.example.portal;  
  
import javafx.event.ActionEvent;  
import javafx.fxml.FXML;  
import javafx.fxml.FXMLLoader;  
import javafx.scene.Node;  
import javafx.scene.Parent;  
import javafx.scene.Scene;  
import javafx.scene.control.Label;  
import javafx.scene.control.PasswordField;  
import javafx.scene.control.TextField;  
import javafx.stage.Stage;  
  
import java.io.\*;  
  
public class StudentloginController {  
 @FXML  
TextField Textfield;  
 @FXML  
PasswordField Passfield;  
 @FXML  
Label invalidLabel;  
  
  
 File file = new File("Studentlogindata.txt");  
 public void signIn(ActionEvent event) throws IOException {  
 if(!file.exists()) {  
 file.createNewFile();  
 System.*out*.println("File created");  
  
 }  
 FileWriter fileWriter=new FileWriter(file);  
 BufferedWriter bw=new BufferedWriter(fileWriter);  
 bw.write("Hamza 1000");  
 bw.newLine();  
 bw.write("Muzamil 1100");  
 bw.close();  
 if(file.exists()) {  
  
 FileReader fr = new FileReader(file);  
 BufferedReader br = new BufferedReader(fr);  
 String line;  
 boolean flag = false;  
  
 while ((line = br.readLine()) != null){  
 String [] userPassArray = line.split(" ");  
 String name=Textfield.getText();  
 if(userPassArray[0].equals(name) &&  
 userPassArray[1].equals(Passfield.getText())){  
 flag = true;  
 FXMLLoader loader = new FXMLLoader(getClass().getResource("Studentvalidlogin.fxml"));  
 Parent root =loader.load();  
 StudentvalidloginController controller = loader.getController();  
 controller.setlabel(name);  
 Stage stage = (Stage)((Node)event.getSource()).getScene().getWindow();  
 Scene scene = new Scene(root);  
 stage.setScene(scene);  
 stage.show();  
  
 }  
 }  
 if(!flag){  
 Textfield.clear();  
 Passfield.clear();  
 invalidLabel.setText("Invalid User or Password");  
 }  
 }  
  
 }  
  
 public void backBtn(ActionEvent event) throws IOException {  
 FXMLLoader loader = new FXMLLoader(getClass().getResource("landingPage.fxml"));  
 Stage stage = (Stage)((Node)event.getSource()).getScene().getWindow();  
 Scene scene = new Scene(loader.load());  
 stage.setScene(scene);  
 stage.show();  
 }  
  
}

**FXML File:**

<?xml version="1.0" encoding="UTF-8"?>  
  
<?import java.lang.String?>  
<?import javafx.scene.control.Button?>  
<?import javafx.scene.control.Label?>  
<?import javafx.scene.control.PasswordField?>  
<?import javafx.scene.control.TextField?>  
<?import javafx.scene.image.Image?>  
<?import javafx.scene.image.ImageView?>  
<?import javafx.scene.layout.AnchorPane?>  
  
<AnchorPane maxHeight="-Infinity" maxWidth="-Infinity" minHeight="-Infinity" minWidth="-Infinity" prefHeight="400.0" prefWidth="600.0" xmlns="http://javafx.com/javafx/23.0.1" xmlns:fx="http://javafx.com/fxml/1" fx:controller="com.example.portal.StudentloginController">  
 <children>  
 <ImageView fitHeight="342.0" fitWidth="300.0" layoutY="58.0" pickOnBounds="true">  
 <image>  
 <Image url="@Pics/StudentLogin2.png" />  
 </image>  
 </ImageView>  
 <AnchorPane fx:id="root" layoutX="300.0" prefHeight="400.0" prefWidth="300.0" stylesheets="@StudentloginStyle.css">  
 <children>  
 <Label fx:id="Welcomelabel" layoutX="35.0" layoutY="53.0" prefHeight="32.0" prefWidth="158.0" text="Welcome Back" />  
 <Label fx:id="siginlabel" layoutX="35.0" layoutY="85.0" prefHeight="32.0" prefWidth="136.0" text="Sign in to continue" />  
 <TextField fx:id="Textfield" layoutX="68.0" layoutY="158.0" prefHeight="25.0" prefWidth="158.0" />  
 <PasswordField fx:id="Passfield" layoutX="68.0" layoutY="194.0" prefHeight="25.0" prefWidth="158.0" />  
 <Button fx:id="Singinbtn" layoutX="121.0" layoutY="232.0" mnemonicParsing="false" onAction="#signIn" text="Sing in" />  
 <Button fx:id="backBtn" layoutX="35.0" layoutY="304.0" mnemonicParsing="false" onAction="#backBtn" text="Back" />  
 <Label fx:id="invalidLabel" layoutX="76.0" layoutY="121.0" prefHeight="25.0" prefWidth="184.0" />  
 </children>  
 <styleClass>  
 <String fx:value="Singinbtn" />  
 <String fx:value="Passfield" />  
 <String fx:value="Textfield" />  
 <String fx:value="Welcomelabel" />  
 </styleClass>  
 </AnchorPane>  
 <ImageView fitHeight="58.0" fitWidth="200.0" layoutX="20.0" layoutY="21.0" pickOnBounds="true" preserveRatio="true">  
 <image>  
 <Image url="@Pics/logo.png" />  
 </image>  
 </ImageView>  
 </children>  
</AnchorPane>

**Student valid login:**package com.example.portal;  
import javafx.fxml.FXML;  
import javafx.fxml.FXMLLoader;  
import javafx.scene.Node;  
import javafx.scene.Parent;  
import javafx.scene.Scene;  
import javafx.scene.control.Alert;  
import javafx.scene.control.ButtonType;  
import javafx.scene.control.Label;  
import javafx.scene.control.TextField;  
import javafx.scene.input.MouseEvent;  
import javafx.scene.layout.AnchorPane;  
import javafx.scene.layout.HBox;  
import javafx.stage.Stage;  
  
import java.io.IOException;  
import java.util.ArrayList;  
import java.util.List;  
  
public class StudentvalidloginController{  
  
String name;  
 @FXML  
 Label labelname,Name1,Father1,semester1,Reg1,Details,CNIC1,Date1;  
 @FXML  
 HBox Dashboard,ProfileBox,Courses,AttandanceBox,MarksBox,LogoutBox;  
 @FXML  
 AnchorPane leftpane,toppane,Dashboardpane,profilePane;  
 List<HBox> hbox=new ArrayList<>();  
  
List<AnchorPane> panes=new ArrayList<>();  
  
  
 public void initialize()  
 {  
  
  
 hbox.add(Dashboard);  
 hbox.add(ProfileBox);  
 hbox.add(MarksBox);  
 hbox.add(AttandanceBox);  
 hbox.add(LogoutBox);  
 hbox.add(Courses);  
 panes.add(Dashboardpane);  
 panes.add(profilePane);  
 // panes.add(CoursesPane);  
 //panes.add(AttandancePane);  
 //panes.add(MarksPane);  
 setallFalse();  
 }  
  
 public void setlabel(String name)throws IOException  
 {  
 this.name=name;  
 labelname.setText(name);  
 }  
 public void ClickDashboard(MouseEvent event) throws IOException  
 {  
 setallFalse();  
 Dashboardpane.setVisible(true);  
 }  
public void ClickOnProfile(MouseEvent event) throws IOException  
{  
 setallFalse();  
 profilePane.setVisible(true);  
 if(name.equalsIgnoreCase("Muzamil"))  
 {  
 Name1.setText(name);  
// Father1.setText("Azam");  
// Date1.setText("25/01/2005");  
// CNIC1.setText("1");  
// semester1.setText("2");  
// Reg1.setText("077");  
 }  
  
}  
 public void ClickOnCourse(MouseEvent event) throws IOException  
 {  
  
  
 setallFalse();  
 // CoursesPane.setVisible(true);  
  
 }  
 public void ClickOnAttandance(MouseEvent event)  
 {  
  
 setallFalse();  
 //AttandancePane.setVisible(true);  
 }  
 public void ClickOnMarks(MouseEvent event)  
 {  
  
 setallFalse();  
 // MarksPane.setVisible(true);  
 }  
 public void ClickOnlogout(MouseEvent event) throws IOException {  
 Alert alert=new Alert(Alert.AlertType.*CONFIRMATION*);  
 alert.setTitle("Logout");  
 alert.setHeaderText(null);  
 alert.setContentText("Are you sure you want to logout!");  
 if(alert.showAndWait().get()==ButtonType.*OK*)  
 {  
 FXMLLoader fxmlLoader = new FXMLLoader(getClass().getResource("Studentlogin.fxml"));  
 Parent root = fxmlLoader.load();  
 Stage stage = (Stage)((Node)event.getSource()).getScene().getWindow();  
 Scene scene = new Scene(root);  
 stage.setScene(scene);  
 stage.show();  
 }  
 else {  
 event.consume();  
 }  
 }  
  
 public void setallFalse() {  
 for (AnchorPane temp : panes) {  
 temp.setVisible(false);  
 }  
 }  
  
  
 }

**FXML File:**

<?xml version="1.0" encoding="UTF-8"?>  
  
<?import javafx.scene.control.Label?>  
<?import javafx.scene.image.Image?>  
<?import javafx.scene.image.ImageView?>  
<?import javafx.scene.layout.AnchorPane?>  
<?import javafx.scene.layout.HBox?>  
<?import javafx.scene.layout.VBox?>  
  
<AnchorPane fx:id="Mainpane" maxHeight="-Infinity" maxWidth="-Infinity" minHeight="-Infinity" minWidth="-Infinity" prefHeight="400.0" prefWidth="600.0" stylesheets="@StudentValidloginstyle.css" xmlns="http://javafx.com/javafx/23.0.1" xmlns:fx="http://javafx.com/fxml/1" fx:controller="com.example.portal.StudentvalidloginController">  
 <children>  
 <AnchorPane fx:id="panelogo" prefHeight="70.0" prefWidth="200.0">  
 <children>  
 <ImageView fx:id="logo" fitHeight="52.0" fitWidth="142.0" layoutX="23.0" layoutY="9.0" pickOnBounds="true" preserveRatio="true">  
 <image>  
 <Image url="@Pics/logo.png" />  
 </image>  
 </ImageView>  
 </children>  
 </AnchorPane>  
 <AnchorPane fx:id="leftpane" layoutY="63.0" prefHeight="337.0" prefWidth="200.0">  
 <children>  
 <Label layoutX="17.0" layoutY="14.0" prefHeight="32.0" prefWidth="57.0" text="General" />  
 <HBox fx:id="Dashboard" alignment="CENTER\_LEFT" layoutX="25.0" layoutY="65.0" onMouseClicked="#ClickDashboard" prefHeight="32.0" prefWidth="151.0">  
 <children>  
 <ImageView fx:id="dashimage" fitHeight="25.0" fitWidth="25.0" pickOnBounds="true" preserveRatio="true">  
 <image>  
 <Image url="@Pics/dashboard.png" />  
 </image>  
 </ImageView>  
 <Label prefHeight="17.0" prefWidth="107.0" text="DASHBOARD" />  
 </children>  
 </HBox>  
 <HBox fx:id="ProfileBox" alignment="CENTER\_LEFT" layoutX="26.0" layoutY="106.0" onMouseClicked="#ClickOnProfile" prefHeight="40.0" prefWidth="134.0">  
 <children>  
 <ImageView fitHeight="25.0" fitWidth="25.0" pickOnBounds="true" preserveRatio="true">  
 <image>  
 <Image url="@Pics/WhatsApp%20Image%202024-05-18%20at%202.04.19%20AM.png" />  
 </image>  
 </ImageView>  
 <Label text="PROFILE" />  
 </children>  
 </HBox>  
 <HBox fx:id="Courses" alignment="CENTER\_LEFT" layoutX="25.0" layoutY="145.0" onMouseClicked="#ClickOnCourse" prefHeight="47.0" prefWidth="151.0">  
 <children>  
 <ImageView fitHeight="25.0" fitWidth="25.0" pickOnBounds="true" preserveRatio="true">  
 <image>  
 <Image url="@Pics/book-pencil-260nw-64577620.png" />  
 </image>  
 </ImageView>  
 <Label text="COURSES" />  
 </children>  
 </HBox>  
 <HBox fx:id="AttandanceBox" alignment="CENTER\_LEFT" layoutX="26.0" layoutY="185.0" onMouseClicked="#ClickOnAttandance" prefHeight="47.0" prefWidth="134.0">  
 <children>  
 <ImageView fitHeight="25.0" fitWidth="25.0" pickOnBounds="true" preserveRatio="true">  
 <image>  
 <Image url="@Pics/WhatsApp%20Image%202024-05-16%20at%206.18.44%20PM%20(2).png" />  
 </image>  
 </ImageView>  
 <Label text="Attandance" />  
 </children>  
 </HBox>  
 <HBox fx:id="MarksBox" alignment="CENTER\_LEFT" layoutX="32.0" layoutY="232.0" onMouseClicked="#ClickOnMarks" prefHeight="40.0" prefWidth="122.0">  
 <children>  
 <ImageView fitHeight="25.0" fitWidth="25.0" pickOnBounds="true" preserveRatio="true">  
 <image>  
 <Image url="@Pics/WhatsApp%20Image%202024-05-18%20at%202.04.18%20AM.png" />  
 </image>  
 </ImageView>  
 <Label text="Marks" />  
 </children>  
 </HBox>  
 <HBox fx:id="LogoutBox" alignment="CENTER\_LEFT" layoutX="17.0" layoutY="276.0" onMouseClicked="#ClickOnlogout" prefHeight="47.0" prefWidth="122.0">  
 <children>  
 <ImageView fitHeight="32.0" fitWidth="40.0" pickOnBounds="true" preserveRatio="true">  
 <image>  
 <Image url="@Pics/images.png" />  
 </image>  
 </ImageView>  
 <Label text="Logout" />  
 </children>  
 </HBox>  
 </children></AnchorPane>  
 <AnchorPane fx:id="toppane" layoutX="208.0" prefHeight="80.0" prefWidth="390.0" stylesheets="@StudentValidloginstyle.css">  
 <children>  
 <Label layoutX="45.0" layoutY="27.0" prefHeight="32.0" prefWidth="162.0" text="Welcome to portal" />  
 <ImageView fitHeight="19.0" fitWidth="21.0" layoutX="14.0" layoutY="32.0" pickOnBounds="true" preserveRatio="true">  
 <image>  
 <Image url="@Pics/7082541.png" />  
 </image>  
 </ImageView>  
 <Label fx:id="labelname" layoutX="228.0" layoutY="33.0" prefHeight="21.0" prefWidth="94.0" />  
 <ImageView fitHeight="32.0" fitWidth="44.0" layoutX="324.0" layoutY="27.0" pickOnBounds="true" preserveRatio="true">  
 <image>  
 <Image url="@Pics/download.png" />  
 </image>  
 </ImageView>  
 </children></AnchorPane>  
 <AnchorPane layoutX="194.0" layoutY="70.0" prefHeight="330.0" prefWidth="412.0" />  
 <AnchorPane fx:id="Dashboardpane" layoutX="201.0" layoutY="67.0" prefHeight="330.0" prefWidth="400.0">  
 <children>  
 <VBox alignment="CENTER" layoutX="35.0" layoutY="14.0" prefHeight="144.0" prefWidth="122.0">  
 <children>  
 <ImageView fitHeight="64.0" fitWidth="61.0" pickOnBounds="true" preserveRatio="true">  
 <image>  
 <Image url="@Pics/WhatsApp%20Image%202024-05-18%20at%202.04.19%20AM%20(5).png" />  
 </image>  
 </ImageView>  
 <Label text="Courses" />  
 </children>  
 </VBox>  
 <VBox alignment="CENTER" layoutX="224.0" layoutY="14.0" prefHeight="144.0" prefWidth="122.0">  
 <children>  
 <ImageView fitHeight="70.0" fitWidth="72.0" pickOnBounds="true" preserveRatio="true">  
 <image>  
 <Image url="@Pics/WhatsApp%20Image%202024-05-18%20at%202.04.19%20AM%20(4).jpeg" />  
 </image>  
 </ImageView>  
 <Label text="Fees" />  
 </children>  
 </VBox>  
 <VBox alignment="CENTER" layoutX="41.0" layoutY="147.0" prefHeight="157.0" prefWidth="111.0">  
 <children>  
 <ImageView fitHeight="70.0" fitWidth="72.0" pickOnBounds="true" preserveRatio="true">  
 <image>  
 <Image url="@Pics/WhatsApp%20Image%202024-05-18%20at%202.04.19%20AM%20(3).png" />  
 </image>  
 </ImageView>  
 <Label text="Attandance" />  
 </children>  
 </VBox>  
 <VBox alignment="CENTER" layoutX="235.0" layoutY="158.0" prefHeight="150.0" prefWidth="111.0">  
 <children>  
 <ImageView fitHeight="70.0" fitWidth="72.0" pickOnBounds="true" preserveRatio="true">  
 <image>  
 <Image url="@Pics/WhatsApp%20Image%202024-05-18%20at%202.04.19%20AM%20(2).png" />  
 </image>  
 </ImageView>  
 <Label text="Program" />  
 </children>  
 </VBox>  
 </children></AnchorPane>  
 <AnchorPane fx:id="profilePane" layoutX="200.0" layoutY="74.0" prefHeight="336.0" prefWidth="400.0">  
 <children>  
 <Label fx:id="Name0" layoutX="4.0" layoutY="104.0" text="Name" />  
 <Label fx:id="Father0" layoutX="4.0" layoutY="146.0" prefHeight="19.0" prefWidth="94.0" text="FatherName" />  
 <Label fx:id="Name1" layoutX="64.0" layoutY="100.0" prefHeight="25.0" prefWidth="68.0" text="Muzamil" />  
 <Label fx:id="Father1" layoutX="92.0" layoutY="147.0" prefHeight="17.0" prefWidth="68.0" text="Azam" />  
 <Label fx:id="Details" layoutX="169.0" layoutY="44.0" prefHeight="25.0" prefWidth="44.0" text="Details" />  
 <Label fx:id="Reg0" layoutX="152.0" layoutY="104.0" text="REGISTRATION NO" />  
 <Label fx:id="Reg1" layoutX="299.0" layoutY="104.0" prefHeight="17.0" prefWidth="100.0" text="SP24-BSE-077" />  
 <Label fx:id="Semester0" layoutX="152.0" layoutY="148.0" text="Semester" />  
 <Label fx:id="semester1" layoutX="247.0" layoutY="147.0" prefHeight="17.0" prefWidth="44.0" text="2" />  
 <Label fx:id="CNIC0" layoutX="4.0" layoutY="191.0" prefHeight="17.0" prefWidth="38.0" text="CNIC" />  
 <Label fx:id="CNIC1" layoutX="51.0" layoutY="191.0" prefHeight="17.0" prefWidth="111.0" text="35200-2573538-1" />  
 <Label fx:id="Date0" layoutX="191.0" layoutY="191.0" text="Date of Birth" />  
 <Label fx:id="Date1" layoutX="282.0" layoutY="191.0" prefHeight="17.0" prefWidth="78.0" text="25/01/2005" />  
 </children>  
 </AnchorPane>  
 </children>  
</AnchorPane>

**Text file:**

Hamza 1000  
Muzamil 1100

**Teacher Login part**

**Teacher login controller**

package com.example.portal;

import javafx.event.ActionEvent; import javafx.fxml.FXML;

import javafx.fxml.FXMLLoader; import javafx.scene.Node; import javafx.scene.Parent; import javafx.scene.Scene;

import javafx.scene.control.PasswordField; import javafx.scene.control.TextField; import javafx.scene.input.MouseEvent;

import javafx.scene.layout.AnchorPane; import javafx.stage.Stage;

import java.io.\*;

import java.util.EventObject;

public class teacherLoginController { @FXML

TextField textField; @FXML

PasswordField passField; @FXML

AnchorPane teacherLoginpane ;

File file = new File("TeacherLoginUserPass.txt");

public void signIn(ActionEvent event) throws IOException {

//System.out.println(file.getAbsolutePath()); if(file.exists()){

BufferedReader br = new BufferedReader(new FileReader(file)); String line;

while ( (line = br.readLine()) != null){ String [] userPass = line.split(" ");

if(userPass[0].equals(textField.getText()) && userPass[1].equals(passField.getText())){

teacherLoginpane.setVisible(false);

FXMLLoader fxmlLoader = new FXMLLoader(getClass().getResource("/teacherValidLogin.fxml"));

Parent root = fxmlLoader.load(); Stage stage =

(Stage)((Node)event.getSource()).getScene().getWindow();

Scene scene = new Scene(root); stage.setScene(scene); stage.show();

}

}

}

else{

System.*out*.println("File does not exist"); System.*out*.println(file.getAbsolutePath());

}

}

public void backBtn(ActionEvent event) throws IOException {

FXMLLoader loader = new FXMLLoader(getClass().getResource("landingPage.fxml")); Stage stage = (Stage)((Node)event.getSource()).getScene().getWindow();

Scene scene = new Scene(loader.load());

**Teacher valid login controller**

package com.example.portal;

import javafx.fxml.FXML; import javafx.fxml.FXMLLoader; import javafx.scene.Node; import javafx.scene.Scene;

import javafx.scene.control.Label; import javafx.scene.input.MouseEvent; import javafx.scene.layout.AnchorPane; import javafx.scene.layout.HBox; import javafx.scene.layout.VBox; import javafx.stage.Stage;

import java.io.IOException; import java.util.ArrayList; import java.util.List;

public class teacherValidLoginController {

//all anchor pane @FXML

AnchorPane dashboardpane, defaultpane, profilepane,attendancepane,coursespane,borderPane;

//hboxes inside defaultpane right side buttons @FXML

HBox generalbox, dashboardbox, attendancebox, marksbox, coursesbox, profilebox;

//vboxes inside dashboard pane @FXML

VBox coursebox, salarybox, salarystatusbox, dashboardTbox;

//labels inside dashboardpane @FXML

Label courseslabel, salarylabel, salarySlabel, noofcourseslabel, totalsalarylabel, salarystatuslabel, dashboardTlabel;

//hboxes inside profile pane @FXML

HBox detailbox, namebox, nameSbox, fatherbox, fatherSbox, empidbox, empidSbox, phonebox, phoneSbox, cnicbox, cnicSbox, birthbox, birthSbox, joiningbox, joiningSbox,

qualifibox, qualifiSbox;

//labels inside profile pane @FXML

Label detaillabel, namelabel, nameSlabel, fatherlabel, fatherSlable, empidlabel, empidSlabel, phonelabel, phoneSlabel, cniclabel, cnicSlabel, birthlabel, birthSlabel, joininglabel, joiningSlabel, qualifilabel, qualifiSlabel, profileTlabel;

//vboxes in profile pane @FXML

VBox profileTbox;

List<AnchorPane> panes = new ArrayList<>(); List<HBox> hboxes = new ArrayList<>(); List<VBox> vboxes = new ArrayList<>(); List<Label> labels = new ArrayList<>();

public void initialize() { panes.add(dashboardpane); panes.add(defaultpane); panes.add(profilepane); panes.add(attendancepane); panes.add(coursespane);

hboxes.add(generalbox); hboxes.add(dashboardbox); hboxes.add(attendancebox); hboxes.add(marksbox); hboxes.add(profilebox); hboxes.add(coursesbox);

vboxes.add(coursebox); vboxes.add(salarybox); vboxes.add(salarystatusbox); vboxes.add(dashboardTbox);

labels.add(courseslabel); labels.add(salarylabel); labels.add(salarySlabel); labels.add(noofcourseslabel); labels.add(totalsalarylabel); labels.add(salarystatuslabel); setAllFalse(); defaultpane.setVisible(true);

}

**Teacher login controller fxml**

<?xml version="1.0" encoding="UTF-8"?>

<?import java.lang.String?>

<?import javafx.scene.control.Button?>

<?import javafx.scene.control.Label?>

<?import javafx.scene.control.PasswordField?>

<?import javafx.scene.control.TextField?>

<?import javafx.scene.image.Image?>

<?import javafx.scene.image.ImageView?>

<?import javafx.scene.layout.AnchorPane?>

<?import javafx.scene.text.Font?>

<AnchorPane fx:id="teacherLoginpane" maxHeight="-Infinity" maxWidth="-Infinity" minHeight="-Infinity" minWidth="-Infinity" prefHeight="400.0" prefWidth="600.0" xmlns[="http://javafx.com/javafx/23.0.1"](http://javafx.com/javafx/23.0.1) xmlns:fx[="http://javafx.com/fxml/1"](http://javafx.com/fxml/1) fx:controller="com.example.portal.teacherLoginController">

<children>

<ImageView fitHeight="303.0" fitWidth="300.0" layoutY="98.0" pickOnBounds="true">

<image>

<Image url="@Pics/TeacherLogin2.png" />

</image>

</ImageView>

<ImageView fitHeight="60.0" fitWidth="191.0" layoutX="25.0" layoutY="22.0" pickOnBounds="true" preserveRatio="true">

<image>

<Image url="@Pics/logo.png" />

</image>

</ImageView>

<AnchorPane layoutX="301.0" layoutY="-3.0" prefHeight="406.0" prefWidth="300.0" [stylesheets="@adminLoginStyles.css](mailto:stylesheets%3D%22@adminLoginStyles.css)">

<children>

<Label fx:id="welcomeLabel" layoutX="37.0" layoutY="37.0"

prefHeight="26.0" prefWidth="175.0" text="Welcome Back">

<font>

<Font size="19.0" />

</font>

</Label>

<Label fx:id="signinLabel" layoutX="37.0" layoutY="75.0" prefHeight="20.0" prefWidth="133.0" text="Sign in to continue " />

<PasswordField fx:id="passField" layoutX="63.0" layoutY="196.0" prefHeight="32.0" prefWidth="191.0" promptText="Enter password" />

<TextField fx:id="textField" layoutX="63.0" layoutY="155.0" prefHeight="32.0" prefWidth="191.0" promptText="Enter name" />

<Button fx:id="signInBtn" layoutX="115.0" layoutY="238.0" mnemonicParsing="false" onAction="#signIn" prefHeight="32.0" prefWidth="87.0" text="Signin" />

<Button fx:id="backBtn" layoutX="37.0" layoutY="331.0" mnemonicParsing="false" onAction="#backBtn" prefHeight="26.0" prefWidth="71.0" text="Back" />

<Label fx:id="invalidLabel" layoutX="73.0" layoutY="128.0" />

</children>

<styleClass>

<String fx:value="password-field" />

<String fx:value="button" />

<String fx:value="root" />

<String fx:value="label" />

</styleClass>

</AnchorPane>

</children>

</AnchorPane>

**Teacher valid login controller fxml**

<?xml version="1.0" encoding="UTF-8"?>

<?import javafx.scene.control.Button?>

<?import javafx.scene.control.CheckBox?>

<?import javafx.scene.control.DatePicker?>

<?import javafx.scene.control.Label?>

<?import javafx.scene.control.TextField?>

<?import javafx.scene.image.Image?>

<?import javafx.scene.image.ImageView?>

<?import javafx.scene.layout.AnchorPane?>

<?import javafx.scene.layout.HBox?>

<?import javafx.scene.layout.VBox?>

<?import javafx.scene.text.Font?>

<AnchorPane fx:id="borderPane" prefHeight="400.0" prefWidth="600.0"

xmlns[="http://javafx.com/javafx/23.0.1"](http://javafx.com/javafx/23.0.1) xmlns:fx[="http://javafx.com/fxml/1"](http://javafx.com/fxml/1) fx:controller="com.example.portal.teacherValidLoginController">

<children>

<!-- This is the defaultbox AnchorPane, now properly defined with fx:id -->

<AnchorPane fx:id="defaultpane" prefHeight="400.0" prefWidth="600.0">

<children>

<VBox fx:id="optionbox" layoutY="51.0" prefHeight="349.0" prefWidth="151.0" style="-fx-background-color: teal;">

<children>

<HBox fx:id="generalbox" alignment="CENTER" prefHeight="41.0"

prefWidth="151.0">

<children>

<Label fx:id="generallabel" text="General">

<font>

<Font name="System Bold" size="12.0" />

</font></Label>

</children>

</HBox>

<HBox fx:id="dashboardbox" alignment="CENTER"

onMouseClicked="#dashboard" prefHeight="46.0" prefWidth="151.0">

<children>

<Label fx:id="dashboardlabel" text="Dashboard">

<font>

<Font name="System Bold" size="12.0" />

</font></Label>

</children>

</HBox>

<HBox fx:id="attendancebox" alignment="CENTER" onMouseClicked="#attendance" prefHeight="44.0" prefWidth="151.0">

<children>

<Label fx:id="attendancelabel" text="Attendance">

<font>

<Font name="System Bold Italic" size="12.0" />

</font></Label>

</children>

</HBox>

<HBox fx:id="marksbox" alignment="CENTER" prefHeight="45.0"

prefWidth="151.0">

<children>

<Label fx:id="markslabel" text="Marks">

<font>

<Font name="System Bold" size="12.0" />

</font></Label>

</children>

</HBox>

<HBox fx:id="coursesbox" alignment="CENTER" onMouseClicked="#courses"

prefHeight="42.0" prefWidth="151.0">

<children>

<Label fx:id="courseslabel" text="Courses">

<font>

<Font name="System Bold" size="12.0" />

</font></Label>

</children>

</HBox>

<HBox fx:id="profilebox" alignment="CENTER" onMouseClicked="#profile" prefHeight="37.0" prefWidth="151.0">

<children>

<Label fx:id="profilelabel" text="Profile">

<font>

<Font name="System Bold" size="12.0" />

</font></Label>

</children>

</HBox>

<HBox fx:id="logoutbox" alignment="CENTER" onMouseClicked="#logout" prefHeight="95.0" prefWidth="151.0">

<children>

<Label fx:id="logoutlabel" text="Logout">

<font>

<Font name="System Bold" size="12.0" />

</font></Label>

</children>

</HBox>

</children>

</VBox>

<!-- <AnchorPane fx:id="defaultpane" layoutX="151.0" layoutY="51.0" prefHeight="349.0" prefWidth="458.0">-->

<!-- <children>-->

<!-- <Label layoutX="161.0" layoutY="158.0" text="Welcome " />-->

<!-- <Label layoutX="214.0" layoutY="158.0" text="name" />-->

<!-- </children>-->

<!-- </AnchorPane>-->

<AnchorPane fx:id="dashboardpane" layoutX="159.0" layoutY="65.0" prefHeight="335.0" prefWidth="450.0" AnchorPane.bottomAnchor="0.0" AnchorPane.leftAnchor="159.0" AnchorPane.rightAnchor="0.0" AnchorPane.topAnchor="65.0">

<children>

<VBox fx:id="coursebox" alignment="CENTER" layoutX="67.0" layoutY="30.0" prefHeight="136.0" prefWidth="119.0">

<children>

<ImageView fx:id="coursesimage" fitHeight="65.0" fitWidth="63.0" pickOnBounds="true" preserveRatio="true">

<image>

<Image url="@com/example/portal/Pics/5344646.png" />

</image>

</ImageView>

<Label fx:id="noofcourseslabel" text="5" />

<Label fx:id="courseslabel" text="Total Courses" />

</children>

</VBox>

<VBox fx:id="salarystatusbox" alignment="CENTER" layoutX="259.0" layoutY="29.0" prefHeight="136.0" prefWidth="119.0">

<children>

<ImageView fx:id="salarystatusimage" fitHeight="65.0" fitWidth="60.0" pickOnBounds="true" preserveRatio="true">

<image>

<Image url="@com/example/portal/Pics/WhatsApp%20Image%202024-05- 16%20at%206.18.44%20PM%20(1).png" />

</image>

</ImageView>

<Label fx:id="salarystatuslabel" text="PAID" />

<Label fx:id="salarySlabel" text="Salary Status" />

</children>

</VBox>

<VBox fx:id="salarybox" alignment="CENTER" layoutX="159.0" layoutY="171.0" prefHeight="136.0" prefWidth="126.0">

<children>

<ImageView fx:id="salaryimage" fitHeight="64.0" fitWidth="70.0" pickOnBounds="true" preserveRatio="true">

<image>

<Image url="@com/example/portal/Pics/543f.png" />

</image>

</ImageView>

<Label fx:id="totalsalarylabel" text="1500000" />

<Label fx:id="salarylabel" text="Salary" />

</children>

</VBox>

<VBox fx:id="dashboardTbox" alignment="CENTER\_LEFT" prefHeight="27.0" prefWidth="450.0" style="-fx-background-color: orange;">

<children>

<Label fx:id="dashboardTlabel" text=" Dashboard" />

</children>

</VBox>

</children>

</AnchorPane>

<AnchorPane fx:id="profilepane" layoutX="159.0" layoutY="65.0" prefHeight="335.0" prefWidth="450.0">

<children>

<HBox fx:id="fatherSbox" alignment="CENTER\_LEFT" layoutX="338.0" layoutY="85.0" prefHeight="27.0" prefWidth="100.0">

<children>

<Label fx:id="fatherSlable" text="Furqan Zabeer" />

</children>

</HBox>

<HBox fx:id="detailbox" alignment="CENTER" layoutX="164.0" layoutY="40.0" prefHeight="36.0" prefWidth="131.0" style="-fx-background-color: b;">

<children>

<Label fx:id="detaillabel" text="Details">

<font>

<Font size="18.0" />

</font>

</Label>

</children>

</HBox>

<HBox fx:id="namebox" alignment="CENTER\_LEFT" layoutX="14.0" layoutY="85.0" prefHeight="27.0" prefWidth="75.0" style="-fx-background-color: silver;">

<children>

<Label fx:id="namelabel" text="Name" />

</children>

</HBox>

<HBox fx:id="nameSbox" alignment="CENTER\_LEFT" layoutX="106.0" layoutY="85.0" prefHeight="27.0" prefWidth="94.0">

<children>

<Label fx:id="nameSlabel" text="Ahmed Furqan" />

</children>

</HBox>

<HBox fx:id="fatherbox" alignment="CENTER\_LEFT" layoutX="258.0" layoutY="85.0" prefHeight="27.0" prefWidth="75.0" style="-fx-background-color: silver;">

<children>

<Label fx:id="fatherlabel" text="Father Name" />

</children>

</HBox>

<HBox fx:id="empidSbox" alignment="CENTER\_LEFT" layoutX="106.0" layoutY="123.0" prefHeight="27.0" prefWidth="94.0">

<children>

<Label fx:id="empidSlabel" text="SP24-BSE-113" />

</children>

</HBox>

<HBox fx:id="empidbox" alignment="CENTER\_LEFT" layoutX="14.0" layoutY="123.0" prefHeight="27.0" prefWidth="75.0" style="-fx-background-color: silver;">

<children>

<Label fx:id="empidlabel" text="Employee ID" />

</children>

</HBox>

<HBox fx:id="phoneSbox" alignment="CENTER\_LEFT" layoutX="341.0" layoutY="128.0" prefHeight="17.0" prefWidth="94.0">

<children>

<Label fx:id="phoneSlabel" prefHeight="17.0" prefWidth="80.0"

text="03-444466213" />

</children>

</HBox>

<HBox fx:id="phonebox" alignment="CENTER\_LEFT" layoutX="258.0" layoutY="123.0" prefHeight="27.0" prefWidth="75.0" style="-fx-background-color: silver;">

<children>

<Label fx:id="phonelabel" text="Phone No." />

</children>

</HBox>

<HBox fx:id="cnicSbox" alignment="CENTER\_LEFT" layoutX="338.0" layoutY="194.0" prefHeight="27.0" prefWidth="100.0">

<children>

<Label fx:id="cnicSlabel" text="35202-2397371-2" />

</children>

</HBox>

<HBox fx:id="cnicbox" alignment="CENTER\_LEFT" layoutX="259.0" layoutY="199.0" prefHeight="27.0" prefWidth="75.0" style="-fx-background-color: silver;">

<children>

<Label fx:id="cniclabel" text="CNIC" />

</children>

</HBox>

<HBox fx:id="birthSbox" alignment="CENTER\_LEFT" layoutX="106.0" layoutY="161.0" prefHeight="27.0" prefWidth="94.0">

<children>

<Label fx:id="birthSlabel" text="26-12-2000" />

</children>

</HBox>

<HBox fx:id="birthbox" alignment="CENTER\_LEFT" layoutX="14.0" layoutY="161.0" prefHeight="27.0" prefWidth="75.0" style="-fx-background-color: silver;">

<children>

<Label fx:id="birthlabel" text="Date Of Birth" />

</children>

</HBox>

<HBox fx:id="joiningbox" alignment="CENTER\_LEFT" layoutX="258.0" layoutY="161.0" prefHeight="27.0" prefWidth="75.0" style="-fx-background-color: silver;">

<children>

<Label fx:id="joininglabel" text="Joining Date" />

</children>

</HBox>

<HBox fx:id="joiningSbox" alignment="CENTER\_LEFT" layoutX="338.0" layoutY="161.0" prefHeight="27.0" prefWidth="100.0">

<children>

<Label fx:id="joiningSlabel" text="12-12-2020" />

</children>

</HBox>

<HBox fx:id="qualifibox" alignment="CENTER\_LEFT" layoutX="14.0" layoutY="194.0" prefHeight="27.0" prefWidth="75.0" style="-fx-background-color: silver;">

<children>

<Label fx:id="qualifilabel" text="Qualification" />

</children>

</HBox>

<HBox fx:id="qualifiSbox" alignment="CENTER\_LEFT" layoutX="106.0" layoutY="194.0" prefHeight="27.0" prefWidth="138.0">

<children>

<Label fx:id="qualifiSlabel" text="MS in Computer Science " />

</children>

</HBox>

<VBox fx:id="profileTbox" alignment="CENTER\_LEFT" prefHeight="22.0" prefWidth="458.0" style="-fx-background-color: orange;">

<children>

<Label fx:id="profileTlabel" text=" Profile" />

</children>

</VBox>

</children>

</AnchorPane>

<AnchorPane fx:id="attendancepane" layoutX="159.0" layoutY="65.0" prefHeight="335.0" prefWidth="458.0">

<children>

<TextField layoutX="142.0" layoutY="60.0" promptText="Enter Registration ID" />

<TextField layoutX="142.0" layoutY="116.0" promptText="Enter Course

Code" />

<DatePicker layoutX="142.0" layoutY="164.0" prefHeight="25.0"

prefWidth="149.0" promptText="Select date" />

<CheckBox layoutX="142.0" layoutY="214.0" mnemonicParsing="false"

text="Present" /> text="Absent" />

<CheckBox layoutX="237.0" layoutY="214.0" mnemonicParsing="false"

<Button layoutX="162.0" layoutY="248.0" mnemonicParsing="false"

prefHeight="40.0" prefWidth="119.0" text="Mark Attendance" />

<HBox alignment="CENTER\_LEFT" prefHeight="27.0" prefWidth="458.0" style="-fx-background-color: orange;">

<children>

<Label text=" Attendance" />

</children>

</HBox>

</children>

</AnchorPane>

<AnchorPane fx:id="coursespane" layoutX="159.0" layoutY="65.0" prefHeight="335.0" prefWidth="458.0">

<children>

<HBox alignment="CENTER\_LEFT" prefHeight="27.0" prefWidth="458.0" style="-fx-background-color: orange;">

<children>

<Label text=" Courses Summary" />

</children>

</HBox>

<HBox alignment="CENTER\_RIGHT" layoutX="164.0" layoutY="46.0" prefHeight="36.0" prefWidth="131.0" style="-fx-background-color: silver;">

<children>

<Label prefHeight="39.0" prefWidth="126.0" text="Assigned

Courses">

<font>

<Font size="15.0" />

</font>

</Label>

</children>

</HBox>

<VBox alignment="CENTER" layoutX="90.0" layoutY="108.0"

prefHeight="162.0" prefWidth="126.0" style="-fx-background-color: white;">

<children>

<Label text="Course: OOP" />

<Label />

<Label text="Course Code: CSC101 " />

<Label />

<Label text="Credit Hr. 4" />

</children>

</VBox>

<VBox alignment="CENTER" layoutX="249.0" layoutY="108.0" prefHeight="162.0" prefWidth="126.0" style="-fx-background-color: white;">

<children>

<Label text="Course: DS" />

<Label />

<Label text="Course Code: CSC121" />

<Label />

<Label text="Credit Hr. 4" />

</children>

</VBox>

</children>

</AnchorPane>

</children>

</AnchorPane>

<!-- Rest of the layout remains the same -->

<HBox fx:id="toprightbox" layoutX="148.0" prefHeight="52.0" prefWidth="471.0" style="-fx-background-color: teal;">

<children>

<HBox alignment="CENTER" prefHeight="52.0" prefWidth="171.0">

<children>

<ImageView fitHeight="28.0" fitWidth="22.0" pickOnBounds="true" preserveRatio="true">

Pro" />

<image>

<Image url="@com/example/portal/Pics/7082541.png" />

</image>

</ImageView>

<Label prefHeight="17.0" prefWidth="131.0" text=" Welcome to portal

</children>

</HBox>

<HBox alignment="CENTER\_RIGHT" prefHeight="52.0" prefWidth="308.0">

<children>

<Label fx:id="toprightnamelabel" />

<ImageView fitHeight="36.0" fitWidth="39.0" pickOnBounds="true"

preserveRatio="true">

<image>

<Image url="@com/example/portal/Pics/asdasd.png" />

</image>

</ImageView>

</children>

</HBox>

</children>

</HBox>

<HBox fx:id="topleftbox" alignment="CENTER" prefHeight="52.0" prefWidth="154.0" style="-fx-background-color: teal;">

<children>

<ImageView fitHeight="23.0" fitWidth="80.0" pickOnBounds="true" preserveRatio="true">

<image>

<Image url="@com/example/portal/Pics/logo.png" />

</image>

</ImageView>

</children>

</HBox>

</children>

</AnchorPane>