# Assignment#2

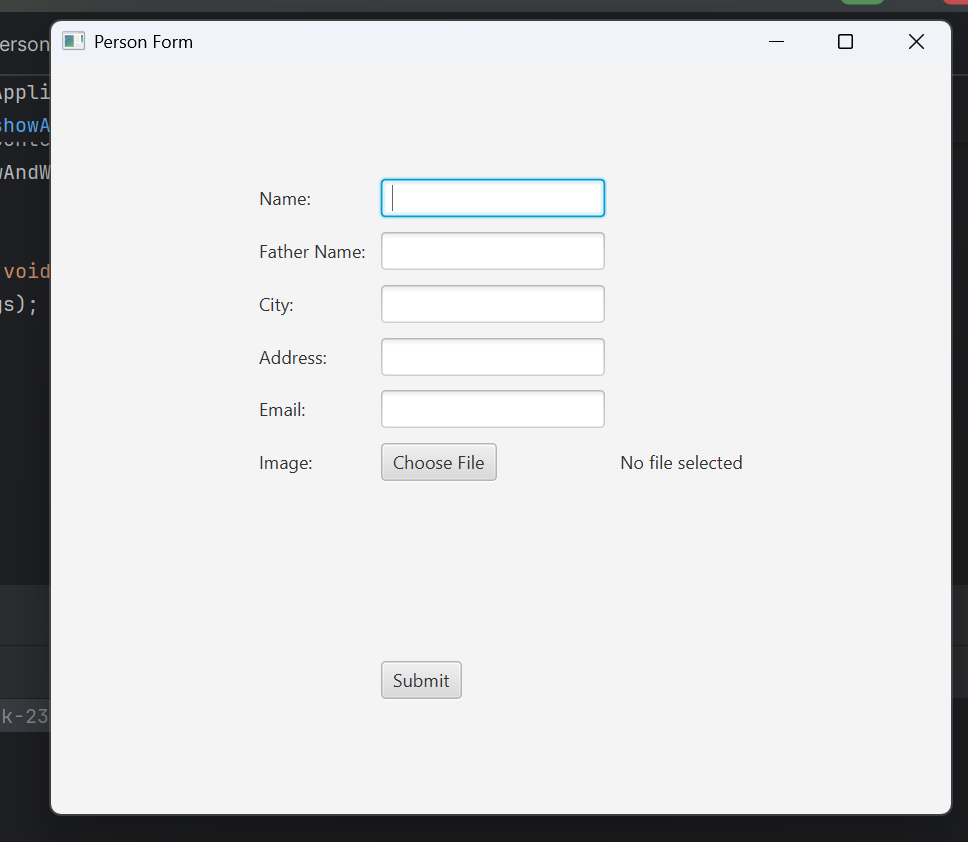
# **Person class**

public class Person {  
 private String name;  
 private String fatherName;  
 private String city;  
 private String address;  
 private String email;  
 private String imagePath;  
 public Person(String name, String fatherName, String city, String address, String email, String imagePath) {  
 this.name = name;  
 this.fatherName = fatherName;  
 this.city = city;  
 this.address = address;  
 this.email = email;  
 this.imagePath = imagePath;  
 }  
 public String getName() {  
 return name;  
 }  
 public void setName(String name) {  
 this.name = name;  
 }  
 public String getFatherName() {  
 return fatherName;  
 }  
 public void setFatherName(String fatherName) {  
 this.fatherName = fatherName;  
 }  
 public String getCity() {  
 return city;  
 }  
 public void setCity(String city) {  
 this.city = city;  
 }  
 public String getAddress() {  
 return address;  
 }  
 public void setAddress(String address) {  
 this.address = address;  
 }  
 public String getEmail() {  
 return email;  
 }  
 public void setEmail(String email) {  
 this.email = email;  
 }  
 public String getImagePath() {  
 return imagePath;  
 }  
 public void setImagePath(String imagePath) {  
 this.imagePath = imagePath;  
 }  
 @Override  
 public String toString() {  
 return "Name: " + name + "\nFather's Name: " + fatherName + "\nCity: " + city +  
 "\nAddress: " + address + "\nEmail: " + email + "\nImage Path: " + imagePath;  
 }  
}

# **FormApplication class**

import javafx.application.Application;  
import javafx.scene.Scene;  
import javafx.scene.control.\*;  
import javafx.scene.layout.GridPane;  
import javafx.scene.image.Image;  
import javafx.scene.image.ImageView;  
import javafx.stage.FileChooser;  
import javafx.stage.Stage;  
  
import java.io.File;  
import java.util.ArrayList;  
  
public class FormApplication extends Application {  
  
 private ArrayList<Person> personList = new ArrayList<>();  
  
 @Override  
 public void start(Stage primaryStage) {  
 Label nameLabel = new Label("Name:");  
 TextField nameField = new TextField();  
 Label fatherNameLabel = new Label("Father Name:");  
 TextField fatherNameField = new TextField();  
 Label cityLabel = new Label("City:");  
 TextField cityField = new TextField();  
 Label addressLabel = new Label("Address:");  
 TextField addressField = new TextField();  
 Label emailLabel = new Label("Email:");  
 TextField emailField = new TextField();  
 Label imageLabel = new Label("Image:");  
 Button fileChooserButton = new Button("Choose File");  
 Label imagePathLabel = new Label();  
 ImageView imageView = new ImageView();  
 imageView.setFitHeight(100);  
 imageView.setFitWidth(100);  
 fileChooserButton.setOnAction(e -> {  
 FileChooser fileChooser = new FileChooser();  
 File file = fileChooser.showOpenDialog(primaryStage);  
 if (file != null) {  
 imagePathLabel.setText(file.getAbsolutePath());  
 imageView.setImage(new Image(file.toURI().toString()));  
 }  
 });  
  
 Button submitButton = new Button("Submit");  
 submitButton.setOnAction(e -> {  
 String name = nameField.getText();  
 String fatherName = fatherNameField.getText();  
 String city = cityField.getText();  
 String address = addressField.getText();  
 String email = emailField.getText();  
 String imagePath = imagePathLabel.getText();  
 Person person = new Person(name, fatherName, city, address, email, imagePath);  
 personList.add(person);  
 displayData(person, primaryStage);  
 });  
 GridPane gridPane = new GridPane();  
 gridPane.setHgap(10);  
 gridPane.setVgap(10);  
 gridPane.add(nameLabel, 0, 0);  
 gridPane.add(nameField, 1, 0);  
 gridPane.add(fatherNameLabel, 0, 1);  
 gridPane.add(fatherNameField, 1, 1);  
 gridPane.add(cityLabel, 0, 2);  
 gridPane.add(cityField, 1, 2);  
 gridPane.add(addressLabel, 0, 3);  
 gridPane.add(addressField, 1, 3);  
 gridPane.add(emailLabel, 0, 4);  
 gridPane.add(emailField, 1, 4);  
 gridPane.add(imageLabel, 0, 5);  
 gridPane.add(fileChooserButton, 1, 5);  
 gridPane.add(imagePathLabel, 2, 5);  
 gridPane.add(imageView, 1, 6);  
 gridPane.add(submitButton, 1, 7);  
 Scene scene = new Scene(gridPane, 500, 400);  
 primaryStage.setScene(scene);  
 primaryStage.setTitle("Person Form");  
 primaryStage.show();  
 }  
  
 private void displayData(Person person, Stage primaryStage) {  
 Label displayLabel = new Label(person.toString());  
 Button backButton = new Button("Back");  
 backButton.setOnAction(e -> start(primaryStage));  
  
 GridPane displayPane = new GridPane();  
 displayPane.setVgap(10);  
 displayPane.add(displayLabel, 0, 0);  
 displayPane.add(backButton, 0, 1);  
  
 Scene displayScene = new Scene(displayPane, 400, 300);  
 primaryStage.setScene(displayScene);  
 }  
  
 public static void main(String[] args) {  
 *launch*(args);  
 }  
}

**Output Images**



A screenshot of a computer

Description automatically generated

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Description automatically generated