### **DIGITAL ASSIGNMENT**



# **VIII**®

## **Vellore Institute of Technology**

(Deemed to be University under section 3 of UGC Act, 1956)

**ITE1007 - Java Programming** 

**FALL SEMESTER 2022-23** 

SUBMITTED BY:
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To: Senthil Murgan

01. Design a Java FX based windows application to Views, Inserts and Updates Staff information stored in a Database. A Sample Screen Shot is as Follows:



#### CODE-

package application;

import java.sql.Connection; import java.sql.PreparedStatement; import java.sql.ResultSet; import java.sql.Statement;

import javafx.application.Application; import javafx.geometry.Pos; import javafx.scene.Scene; import javafx.scene.control.Button; import javafx.scene.control.Label; import javafx.scene.control.TextArea; import javafx.scene.control.TextField; import javafx.scene.layout.BorderPane; import javafx.scene.layout.GridPane; import javafx.scene.layout.HBox; import javafx.scene.layout.Pane; import javafx.stage.Stage;

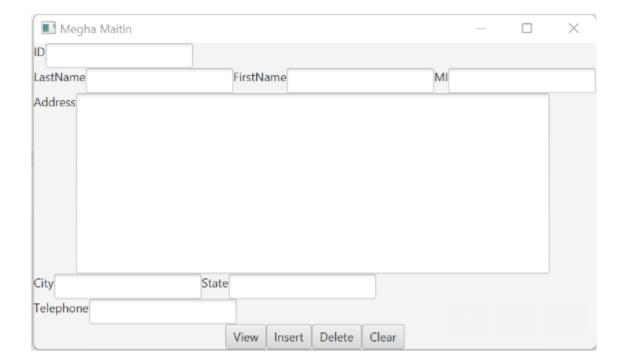
public class Megha\_Form extends Application {
@Override
public void start(Stage primaryStage) throws Exception {
Button b1, b2, b3, b4;

```
HBox bottom;
TextField tf1, tf2, tf3, tf4, tf5, tf6, tf7;
TextArea ta1;
Label I1, I2, I3, I4, I5, I6, I7, I8;
Connection con;
Statement st;
PreparedStatement pst;
ResultSet rs;
HBox h1,h2,h3,h4,h5;
GridPane grid = new GridPane();
// setFont(new Font("Arial", Font.BOLD, 25));
bottom = new HBox();
b1 = new Button("View");
// bottom.
bottom.getChildren().add(b1);
b2 = new Button("Insert");
bottom.getChildren().add(b2);
b3 = new Button("Delete");
bottom.getChildren().add(b3);
b4 = new Button("Clear");
bottom.getChildren().add(b4);
bottom.setAlignment(Pos.CENTER);
11 = new Label("ID");
// top.add(I1);
tf1 = new TextField();
// top.add(tf1);
// <u>p1ge</u>(l1);
h1 = new HBox(I1, tf1);
//
// top.add(p1);
12 = new Label("LastName");
// top.add(l2);
tf2 = new TextField();
// top.add(tf2);
// h2.getChildren().addAll(l2, tf2);
13 = new Label("FirstName");
// top.add(I3);
tf3 = new TextField();
// top.add(tf3);
I4 = new Label("MI");
// top.add(l4);
tf4 = new TextField();
```

```
// top.add(tf4);
h2 = new HBox(12, tf2, 13, tf3, 14, tf4);
15 = new Label("Address");
// top.add(I5);
ta1 = new TextArea();
// top.add(ta1);
h3 = new HBox(15, ta1);
16 = new Label("City");
// top.add(l6);
tf5 = new TextField();
// top.add(tf5);
17 = new Label("State");
// top.add(I7);
tf6 = new TextField();
// top.add(tf6);
h4 = new HBox(16,tf5, 17, tf6);
18 = new Label("Telephone");
// top.add(I8);
tf7 = new TextField();
// top.add(tf7);
h5 = new HBox(18,tf7);
// validate();
grid.add(h1, 0, 0);
grid.add(h2, 0, 1);
grid.add(h3, 0, 2);
grid.add(h4, 0, 3);
grid.add(h5, 0, 4);
// bottom.getChildren().addAll(b1,b2,b3,b4);
// b1.addActionListener(this);
// b2.addActionListener(this);
// b3.addActionListener(this);
// b4.addActionListener(this);
BorderPane border = new BorderPane(grid, null, null, bottom, null);
// border.setBackground(Color.ORANGE);
primaryStage.setScene(new Scene(new BorderPane(grid, null, null, bottom, null)));
   primaryStage.setTitle("Megha Maitin");
   primaryStage.show();
}
```

```
public static void main(String[] args) {
    Application.launch(args);
  }
}
```

#### **OUTPUT-**



02. Let's say that you are assigned to develop the JDBC based Console Java Application for searching through various book available in a Library by Book name/Publication Year/Author name based on the framework that consists of POJO classes, console based presentation layer and DAO layer. Use Lambda Expressions wherever appropriate.