

19BCE1862
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11TH MAY 2021

JAVA DIGITAL ASSIGNMENT -3

LINK FOR EXECUTION RECORDING:

YOUTUBE LINK: <https://youtu.be/MsrFwRyLmW4>

GOOGLE DRIVE

LINK:https://drive.google.com/drive/folders/12x6ud_0oAFWGHPC8LKg66Dhi0O6c-FxT?usp=sharing

CODE:

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package da3theory;
import java.time.*;
import java.util.*;
import java.sql.*;
import javafx.application.Application;
import static javafx.application.Application.launch;
import javafx.event.ActionEvent;
import javafx.event.EventHandler;
import javafx.scene.*;
import javafx.scene.text.Text;
import javafx.scene.control.TextField;
import javafx.scene.control.Button;
import javafx.scene.layout.GridPane; //for gridpane
import javafx.scene.paint.Color;
import javafx.stage.Stage;
import javafx.scene.text.*;
import javafx.geometry.Insets; //for spacing in the gridpane
import javafx.scene.control.DatePicker; //for date field in the form
import javafx.scene.control.ToggleGroup;
import javafx.scene.control.ToggleButton;
import javafx.scene.control.RadioButton;
import javafx.scene.control.ChoiceBox;
import javafx.geometry.Pos; //for aligning the characters to the centre
import java.io.*; //for filestream to select the image from the system's location
import javafx.scene.image.*; //for using the image in the output we need this class
import javafx.scene.layout.*; //for background image
import javafx.scene.layout.HBox; //radiobutton horizontal box
/**
```

```

*
* @author Yeshwanth Ponnusamy
*/
public class Da3theory extends Application{

    @Override
    public void start(Stage primaryStage) throws Exception{
        //first we need to create the group object i.e Scene Graph
        GridPane root=new GridPane();
        root.setPadding(new Insets(10, 10, 10, 10));
        root.setVgap(20);
        root.setHgap(12);
        root.setAlignment(Pos.CENTER);
        //next we need to add this to the Scene object
        Scene s=new Scene(root,800,600);
        //altering the prooperties of the scene
        //for setting the background image
        FileInputStream input = new FileInputStream("D:\\covid19virus3.jpg");
        Image image = new Image(input);
        BackgroundImage backgroundimage = new
BackgroundImage(image,BackgroundRepeat.NO_REPEAT, BackgroundRepeat.NO_REPEAT,
BackgroundPosition.DEFAULT, BackgroundSize.DEFAULT);
        Background background = new Background(backgroundimage);
        root.setBackground(background);
        Text form_title=new Text();
        form_title.setFill(Color.WHITE);
        form_title.setText("COWIN REGISTRATION");
        form_title.setFont(Font.font("calibri", FontWeight.BOLD, FontPosture.REGULAR, 40));
        Text ano=new Text("AADHAR Number");
        ano.setFill(Color.WHITE);
        TextField anotext=new TextField();
        Text aname=new Text("Name in AADHAR");
        aname.setFill(Color.WHITE);
        TextField aname_text=new TextField();
        Text dobLabel = new Text("Date Of Birth");
        dobLabel.setFill(Color.WHITE);
        DatePicker datePicker = new DatePicker();
        Text dovLabel = new Text("Vaccination Date");
        dovLabel.setFill(Color.WHITE);
        DatePicker dovPicker = new DatePicker();
        ToggleGroup groupGender = new ToggleGroup();
        RadioButton maleRadio = new RadioButton("Male");
        maleRadio.setToggleGroup(groupGender);
        RadioButton femaleRadio = new RadioButton("Female");
        femaleRadio.setToggleGroup(groupGender);
        RadioButton otherRadio = new RadioButton("Other");
        otherRadio.setToggleGroup(groupGender);
        Text genderLabel = new Text("Gender");
        genderLabel.setFill(Color.WHITE);
    }
}

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HBox hbox = new HBox(3);
hbox.getChildren().addAll(maleRadio,femaleRadio,otherRadio);
hbox.setSpacing(8);
Text locationLabel = new Text("Vaccination Taking Location");
locationLabel.setFill(Color.WHITE);
ChoiceBox locationchoiceBox = new ChoiceBox();
locationchoiceBox.getItems().addAll("Tamil Nadu", "Kerela", "Andhra Pradesh",
"Maharashtra", "Karanataka", "Odisha", "Pondicherry");
Button btn=new Button("Register");
Button btn2=new Button("Vaccinate Now");
Button btn3=new Button("Daily Report");
btn.setWrapText(true);
btn2.setWrapText(true);
btn3.setWrapText(true);
HBox hbox2 = new HBox(3);
hbox2.getChildren().addAll(btn,btn2,btn3);
hbox2.setSpacing(20);

//for register button event handling
btn.setOnAction(new EventHandler<ActionEvent>(){
    @Override
    public void handle(ActionEvent args1){
        try(Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/employee", "root",
"Yeshwanth@2001")){
            Statement st = con.createStatement ();
            if(maleRadio.isSelected())
            {
                System.out.print("The Details of the Patient that is going to be Registered for
vaccination is: ");
                System.out.println(anotext.getText()+" "+aname_text.getText()+"
"+datePicker.getValue()+" "+dovPicker.getValue()+" "+"male"+"
"+locationchoiceBox.getValue());
                String gender="male";
                char vf='n';//vaccination status
                LocalDate d=LocalDate.now();
                String s2="INSERT INTO patient
VALUES('"+anotext.getText()+"','"+aname_text.getText()+"','"+datePicker.getValue()+"','"+dovPi
cker.getValue()+"','"+gender+"','"+locationchoiceBox.getValue()+"','"+vf+"','"+d+"')";
                st.executeUpdate(s2);
            }
            else if(femaleRadio.isSelected())
            {
                System.out.print("The Details of the Patient that is going to be Registered for
vaccination is: ");
                System.out.println(anotext.getText()+" "+aname_text.getText()+"
"+datePicker.getValue()+" "+dovPicker.getValue()+" "+"female"+"
"+locationchoiceBox.getValue());
                String gender="female";

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        char vf='n';//vaccination status
        LocalDate d=LocalDate.now();
        String s2="INSERT INTO patient
VALUES('"+anotext.getText()+"','"+aname_text.getText()+"','"+datePicker.getValue()+"','"+dovPi
cker.getValue()+"','"+gender+"','"+locationchoiceBox.getValue()+"','"+vf+"','"+d+"')";
        st.executeUpdate(s2);
    }
    else
    {
        System.out.print("The Details of the Patient that is going to be Registered for
vaccination is: ");
        System.out.println(anotext.getText()+" "+aname_text.getText()+"
"+datePicker.getValue()+" "+dovPicker.getValue()+" "+other+"
"+locationchoiceBox.getValue());
        String gender="other";
        char vf='n';//vaccination status
        LocalDate d=LocalDate.now();
        String s2="INSERT INTO patient
VALUES('"+anotext.getText()+"','"+aname_text.getText()+"','"+datePicker.getValue()+"','"+dovPi
cker.getValue()+"','"+gender+"','"+locationchoiceBox.getValue()+"','"+vf+"','"+d+"')";
        st.executeUpdate(s2);
    }
}
}catch(SQLException e){e.printStackTrace();}

}

}

//for vaccinate now button
btn2.setOnAction(new EventHandler<ActionEvent>(){
    @Override
    public void handle(ActionEvent args1){
        try(Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/employee", "root",
"Yeshwanth@2001")){
            Statement st = con.createStatement ();
            String s2="SELECT * FROM patient where ano='"+anotext.getText()+"' and
aname='"+aname_text.getText()+"' and dob='"+datePicker.getValue()+"' and
dov='"+dovPicker.getValue()+"' and location='"+locationchoiceBox.getValue()+"' and
vaccinated='n'";
            ResultSet rs = st.executeQuery(s2);
            int flag=0;
            while(rs.next())
            {
                System.out.println("The person with ano "+rs.getString(1)+"has registered for
vaccination on "+rs.getString(4)+" is getting vaccinated");
                flag++;
                break;
            }
            if(flag!=0)

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        {
            String s3="UPDATE patient SET vaccinated='y' WHERE
aname='"+aname_text.getText()+"' AND ano='"+anotext.getText()+"' AND
dob='"+datePicker.getValue()+"' AND dov='"+dovPicker.getValue()+"' AND
location='"+locationchoiceBox.getValue()+"'";
            st.executeUpdate(s3);
        }
        else
            System.out.print("The patient details requested is not available please try again
or register");

    }catch(SQLException e){e.printStackTrace();}

} //handle block
});

//for daily report button
btn3.setOnAction(new EventHandler<ActionEvent>(){
    @Override
    public void handle(ActionEvent args1){

        DatePicker datePicker2 = new DatePicker();
        Button btn4= new Button ("Search");
        GridPane secondaryLayout = new GridPane();
        secondaryLayout.setPadding(new Insets(10, 10, 10, 10));
        secondaryLayout.setVgap(20);
        secondaryLayout.setHgap(12);
        secondaryLayout.setAlignment(Pos.CENTER);
        Text form_title2=new Text();
        form_title2.setText("RECORD SEARCH");
        form_title2.setFont(Font.font("calibri", FontWeight.BOLD, FontPosture.REGULAR, 20));
        secondaryLayout.add(form_title2, 0, 0);
        //secondaryLayout.add(dorLabel, 0, 1);
        secondaryLayout.add(datePicker2, 0, 1);
        secondaryLayout.add(btn4, 1, 1);

        Scene secondScene = new Scene(secondaryLayout, 400, 200);

        // New window (Stage)
        Stage newWindow = new Stage();
        newWindow.setTitle("Searching Application");
        newWindow.setScene(secondScene);

        // Set position of second window, related to primary window.
        newWindow.setX(PrimaryStage.getX() + 200);
        newWindow.setY(PrimaryStage.getY() + 100);
        newWindow.show();
        btn4.setOnAction(new EventHandler<ActionEvent>() {

```

```

@Override
public void handle(ActionEvent event) {
    newWindow.close();

    try(Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/employee", "root",
"Yeshwanth@2001")){
        Statement st = con.createStatement ();
        System.out.println("DAILY REPORT:");
        System.out.print("Registered people:\n");
        String s2="SELECT * FROM patient WHERE reg_date='"+datePicker2.getValue()+" ";
        ResultSet rs= st.executeQuery(s2);
        int flag1=0;
        while(rs.next())
        {
            flag1++;
            System.out.println(rs.getString (1) + "|" +rs.getString (2) + "|" +
rs.getString (4)+ "|" + rs.getString (5)+ "|" + rs.getString(6)+ "|" +
+rs.getString(7));
        }
        if(flag1==0)
            System.out.println("There are no people who registered for vaccine on
"+datePicker2.getValue());
        int flag2=0;
        System.out.print("People Vaccinatd today:\n");
        String s3="SELECT * FROM patient WHERE dov='"+datePicker2.getValue()+" ";
        ResultSet rs2= st.executeQuery(s3);
        while(rs2.next())
        {
            flag2++;
            System.out.println(rs2.getString (1) + "|" +rs2.getString (2) + "|" +
rs2.getString (4)+ "|" + rs2.getString (5)+ "|" + rs2.getString(6)+ "|" +
+rs2.getString(7));
        }
        if(flag2==0)
            System.out.println("There are no people who were vaccinated on
"+datePicker2.getValue());
        }catch(SQLException e){e.printStackTrace();}

    }
    });

    }//handle block
});

//adding the button node to the root node
root.add(form_title, 1, 0);
//for aadhar number entry field
root.add(ano,0,1);

```

```

root.add(anotext,1,1);
//for aadhar name field
root.add(aname,0,2);
root.add(aname_text,1,2);
// for gender
root.add(genderLabel, 0, 3);
root.add(hbox, 1, 3);
//for dob
root.add(dobLabel, 0, 4);
root.add(datePicker, 1, 4);
//date of vaccination
root.add(dovLabel, 0, 5);
root.add(dovPicker, 1, 5);
//vaccination location
root.add(locationLabel, 0, 6);
root.add(locationchoiceBox, 1, 6);
//for submit button
root.add(hbox2, 1, 8);
//next we need to configure PrimaryStage(Stage obj passed as arg to start())
PrimaryStage.setTitle("REGISTRATION PORTAL FOR COVID VACCINE");
//now we need to add the Scene object to the stage
PrimaryStage.setScene(s);
//now we need to display the contents of the stage
PrimaryStage.show();
}
//now we need to launch the application by calling launch function from the main block
public static void main(String Args[])
{
    launch(Args);
}
}

```

OUTPUT:

COWIN REGISTRATION

AADHAR Number

673245194262

Name in AADHAR

sample

Gender



Male



Female



Other

Date Of Birth

21/7/2000



Vaccination Date

10/6/2021



Vaccination Taking Location

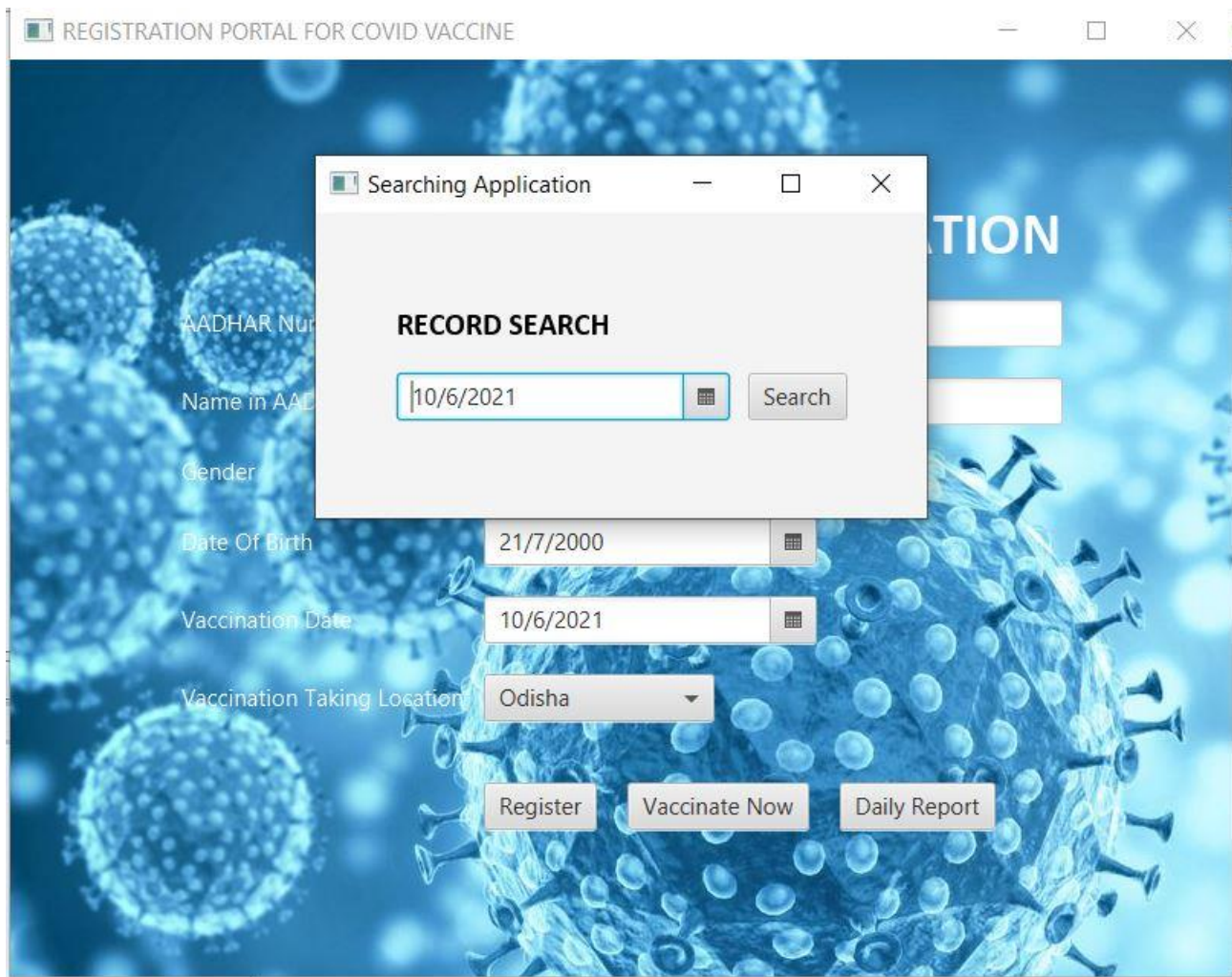
Odisha



Register

Vaccinate Now

Daily Report



```
Output - da3theory (jfxsa.ru... x
[echo] Executing C:\Users\Yeshwanth Ponnusamy\Documents\NetBeansProjects\da3theory\dist\run1046000007\da3theory.jar using platform C:\Program Files\Java
[java] The person with ano 673245194262has registered for vaccination on 2021-06-10 is getting vaccinated
[java] DAILY REPORT:
[java] Registered people:
[java] There are no people who registered for vaccine on 2021-06-10
[java] People Vaccinatd today:
[java] 673243194262|yeshwanth|2021-06-10|male|Kerela|n
[java] 123123123123|coccoco|2021-06-10|other|Karanataka|y
[java] 987654321456|dummy2|2021-06-10|male|Tamil Nadu|n
[java] 673245194262|sample|2021-06-10|male|Odisha|y
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	ano	aname	dob	dov	gender	location	vaccinated	reg_date
	123456789123	aaaa	2003-12-13	2021-05-30	male	Tamil Nadu	n	2021-05-30
	673243194262	yeshwanth	2001-10-22	2021-06-10	male	Kerela	n	2021-05-30
	989898989898	bbbbbb	2002-11-22	2021-05-30	female	Andhra Pra...	n	2021-05-30
	123123123123	cccccc	2000-08-10	2021-06-10	other	Karanataka	y	2021-05-30
	12356789876	dummy1	2003-07-21	2021-06-04	female	Tamil Nadu	n	2021-05-30
	987654321456	dummy2	2000-06-12	2021-06-10	male	Tamil Nadu	n	2021-05-30
▶	673245194262	sample	2000-07-21	2021-06-10	male	Odisha	y	2021-05-30