COVID-19 Portal

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JAVA Programming - Digital Assignment III

Code

```java
package covid;

import javafx.application.Application;
import javafx.event.ActionEvent;
import javafx.event.EventHandler;
import javafx.scene.Scene;
import javafx.scene.control.Button;
import javafx.stage.Stage;


import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.logging.Level;
import java.util.logging.Logger;
import javafx.geometry.Insets;
import javafx.geometry.Pos;
import javafx.scene.control.Label;
import javafx.scene.image.Image;
import javafx.scene.image.ImageView;
import javafx.scene.layout.Background;
import javafx.scene.layout.BackgroundFill;
import javafx.scene.layout.CornerRadii;
import javafx.scene.layout.HBox;
import javafx.scene.layout.VBox;
import javafx.scene.paint.Color;
import javafx.scene.text.Font;
import javafx.scene.text.FontPosture;
import javafx.scene.text.FontWeight;
```

```java
import javafx.scene.text.TextAlignment;
/**
 *
 * @author aadhitya
 */
public class COVID extends Application {

    public static final String USERNAME = "root";
    public static final String PASSWORD = "";
    public static final String CONN = "jdbc:mysql://localhost/java";

    @Override
    public void start(Stage primaryStage) throws SQLException {

        final Connection conn = DriverManager.getConnection(CONN, USERNAME,
PASSWORD);
        System.out.println("SQL Connected");
        Statement smtp = null;
        String sql = "";
        smtp = conn.createStatement();

        final ImageView imgview = new ImageView();
        final Image image2 = new Image(COVID.class.getResourceAsStream("india.png"));
        //imgview.setFitHeight(60);


        Label title = new Label("COVID - 19 Portal");
        title.setFont(Font.font("Bradley Hand", FontWeight.BOLD, FontPosture.REGULAR,
50));
        title.setTextFill(Color.RED);

        Label contentHead = new Label("Welcome");
        contentHead.setFont(Font.font("Arial Black", FontWeight.BOLD,
FontPosture.REGULAR, 40));
        contentHead.setTextFill(Color.BURLYWOOD);

        Label contentBodyDeath = new Label();
        contentBodyDeath.setStyle("-fx-font-family: \"Comic Sans MS\"; -fx-font-size: 20; -fx-
text-fill: darkred;");

        Label contentBodyTotal = new Label();
        contentBodyTotal.setStyle("-fx-font-family: \"Comic Sans MS\"; -fx-font-size: 20; -fx-
text-fill: darkred;");
```

```java
        Label contentBodyCured = new Label();
        contentBodyCured.setStyle("-fx-font-family: \"Comic Sans MS\"; -fx-font-size: 20; -fx-text-fill: darkred;");



        Button India = new Button();
        India.setText("India");
        India.setFont(Font.font("American Typewriter", FontWeight.BOLD,
FontPosture.REGULAR, 30));
        India.setPrefWidth(300);
        India.setAlignment(Pos.CENTER);
        India.setOnAction(new EventHandler<ActionEvent>() {

          @Override
          public void handle(ActionEvent event) {
            String sql = "SELECT total, cured, deaths FROM covid WHERE state='India';";
            try {
              Statement smtp = conn.createStatement();
              ResultSet res = smtp.executeQuery(sql);
              res.next();
              System.out.println("India : " + res.getInt("total") + res.getInt("cured") +
res.getInt("deaths"));
              contentHead.setText("All India Figures");
              contentBodyTotal.setText("Total Cases : " + res.getInt("total"));
              contentBodyCured.setText("Cured Cases : " + res.getInt("cured"));
              contentBodyDeath.setText("Deaths : " + res.getInt("deaths"));
              imgview.setImage(image2);

            } catch (SQLException ex) {
              Logger.getLogger(COVID.class.getName()).log(Level.SEVERE, null, ex);
            }
            System.out.println("India calls");
          }
        });

        Button Tamil_Nadu = new Button();
        Tamil_Nadu.setText("Tamil Nadu");
        Tamil_Nadu.setFont(Font.font("American Typewriter", FontWeight.BOLD,
FontPosture.REGULAR, 30));
        Tamil_Nadu.setPrefWidth(300);
        Tamil_Nadu.setAlignment(Pos.CENTER);
        Tamil_Nadu.setOnAction(new EventHandler<ActionEvent>() {

          @Override
```

```java
        public void handle(ActionEvent event) {
            String sql = "SELECT total, cured, deaths FROM covid WHERE state='Tamil Nadu';";
            try {
                Statement smtp = conn.createStatement();
                ResultSet res = smtp.executeQuery(sql);
                res.next();
                System.out.println("Tamil Nadu : " + res.getInt("total") + res.getInt("cured") + res.getInt("deaths"));
                contentHead.setText("Tamil Nadu Figures");
                contentBodyTotal.setText("Total Cases : " + res.getInt("total"));
                contentBodyCured.setText("Cured Cases : " + res.getInt("cured"));
                contentBodyDeath.setText("Deaths : " + res.getInt("deaths"));
                imgview.setImage(null);
            } catch (SQLException ex) {
                Logger.getLogger(COVID.class.getName()).log(Level.SEVERE, null, ex);
            }
            System.out.println("Tamil Nadu calls");
        }
    });

    Button Karnataka = new Button();
    Karnataka.setText("Karnataka");
    Karnataka.setFont(Font.font("American Typewriter", FontWeight.BOLD, FontPosture.REGULAR, 30));
    Karnataka.setPrefWidth(300);
    Karnataka.setAlignment(Pos.CENTER);
    Karnataka.setOnAction(new EventHandler<ActionEvent>() {

        @Override
        public void handle(ActionEvent event) {
            String sql = "SELECT total, cured, deaths FROM covid WHERE state='Karnataka';";
            try {
                Statement smtp = conn.createStatement();
                ResultSet res = smtp.executeQuery(sql);
                res.next();
                System.out.println("Karnataka : " + res.getInt("total") + res.getInt("cured") + res.getInt("deaths"));
                contentHead.setText("Karnataka Figures");
                contentBodyTotal.setText("Total Cases : " + res.getInt("total"));
                contentBodyCured.setText("Cured Cases : " + res.getInt("cured"));
                contentBodyDeath.setText("Deaths : " + res.getInt("deaths"));
                imgview.setImage(null);
```

```java
        } catch (SQLException ex) {
            Logger.getLogger(COVID.class.getName()).log(Level.SEVERE, null, ex);
        }
        System.out.println("Karnataka calls");
    }
});

Button Kerla = new Button();
Kerla.setText("Kerla");
Kerla.setFont(Font.font("American Typewriter", FontWeight.BOLD,
FontPosture.REGULAR, 30));
Kerla.setPrefWidth(300);
Kerla.setAlignment(Pos.CENTER);
Kerla.setOnAction(new EventHandler<ActionEvent>() {

    @Override
    public void handle(ActionEvent event) {
        String sql = "SELECT total, cured, deaths FROM covid WHERE state='Kerla';";
        try {
            Statement smtp = conn.createStatement();
            ResultSet res = smtp.executeQuery(sql);
            res.next();
            System.out.println("Kerla : " + res.getInt("total") + res.getInt("cured") +
res.getInt("deaths"));
            contentHead.setText("Kerla Figures");
            contentBodyTotal.setText("Total Cases : " + res.getInt("total"));
            contentBodyCured.setText("Cured Cases : " + res.getInt("cured"));
            contentBodyDeath.setText("Deaths : " + res.getInt("deaths"));
            imgview.setImage(null);
        } catch (SQLException ex) {
            Logger.getLogger(COVID.class.getName()).log(Level.SEVERE, null, ex);
        }
        System.out.println("Kerla calls");
    }
});

Button Telangana = new Button();
Telangana.setText("Telangana");
Telangana.setFont(Font.font("American Typewriter", FontWeight.BOLD,
FontPosture.REGULAR, 30));
Telangana.setPrefWidth(300);
Telangana.setAlignment(Pos.CENTER);
Telangana.setOnAction(new EventHandler<ActionEvent>() {
```

```java
        @Override
        public void handle(ActionEvent event) {
            String sql = "SELECT total, cured, deaths FROM covid WHERE
state='Telangana';";
            try {
                Statement smtp = conn.createStatement();
                ResultSet res = smtp.executeQuery(sql);
                res.next();
                System.out.println("Telangana : " + res.getInt("total") + res.getInt("cured") +
res.getInt("deaths"));
                contentHead.setText("Telangana Figures");
                contentBodyTotal.setText("Total Cases : " + res.getInt("total"));
                contentBodyCured.setText("Cured Cases : " + res.getInt("cured"));
                contentBodyDeath.setText("Deaths : " + res.getInt("deaths"));
                imgview.setImage(null);
            } catch (SQLException ex) {
                Logger.getLogger(COVID.class.getName()).log(Level.SEVERE, null, ex);
            }
            System.out.println("Telangana calls");
        }
    });

    VBox optionList = new VBox(20, India, Tamil_Nadu, Kerla, Karnataka, Telangana);
    optionList.setAlignment(Pos.BASELINE_CENTER);
    optionList.prefWidthProperty().bind(primaryStage.widthProperty().multiply(0.30));
    BackgroundFill background_fill_option_list = new BackgroundFill(Color.BEIGE,
CornerRadii.EMPTY, Insets.EMPTY);
    Background background_option_list_box = new
Background(background_fill_option_list);
    optionList.setBackground(background_option_list_box);

    VBox mainContent = new VBox(40, contentHead, contentBodyTotal,
contentBodyCured, contentBodyDeath, imgview);

mainContent.prefWidthProperty().bind(primaryStage.widthProperty().multiply(0.70));
    mainContent.setAlignment(Pos.BASELINE_CENTER);
    mainContent.setPrefHeight(750);
    BackgroundFill background_fill_main_content = new
BackgroundFill(Color.CORNSILK, CornerRadii.EMPTY, Insets.EMPTY);
    Background background_main_content = new
Background(background_fill_main_content);
    mainContent.setBackground(background_main_content);

    HBox titleHbox = new HBox(title);
```

```java
        titleHbox.setAlignment(Pos.TOP_CENTER);
        titleHbox.prefWidthProperty().bind(primaryStage.widthProperty().multiply(1));
        HBox.setMargin(title, new Insets(10, 10, 10, 10));
        BackgroundFill background_fill_title_box = new BackgroundFill(Color.IVORY,
CornerRadii.EMPTY, Insets.EMPTY);
        Background background_title_box = new Background(background_fill_title_box);
        titleHbox.setBackground(background_title_box);

        HBox bodyHbox = new HBox(optionList, mainContent);

        VBox root = new VBox();
        root.getChildren().addAll(titleHbox, bodyHbox);

        Scene scene = new Scene(root, 1200, 800);

        primaryStage.setTitle("COVID - 19");
        primaryStage.setScene(scene);
        primaryStage.show();
    }

    /**
     * @param args the command line arguments
     * @throws java.sql.SQLException
     */

    public static void main(String[] args) {
        launch(args);

        // System.out.println(javafx.scene.text.Font.getFamilies());
    }

}
```
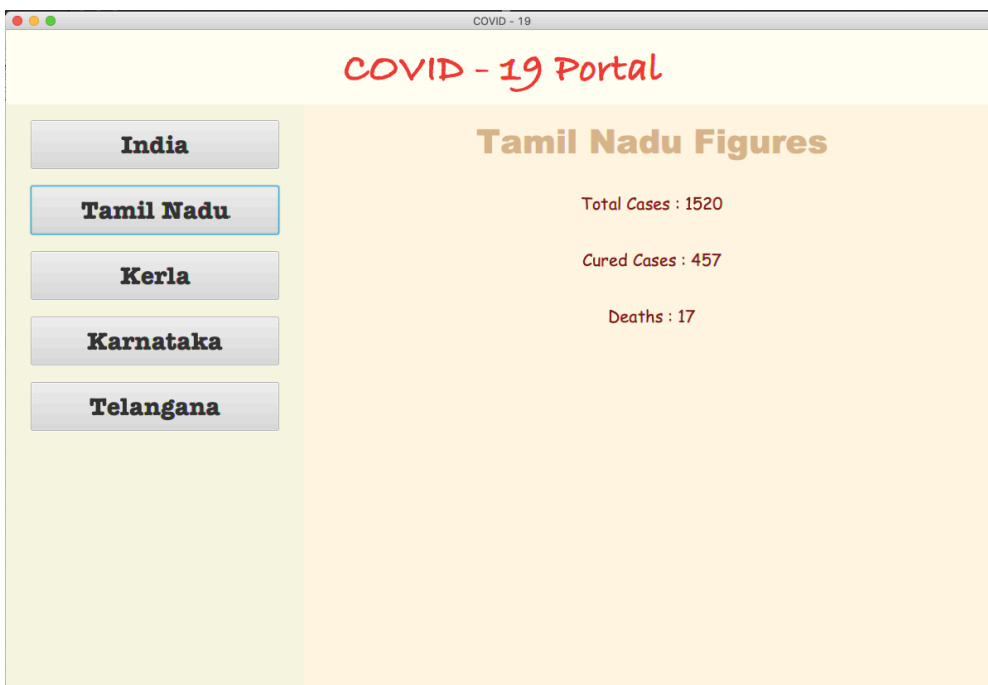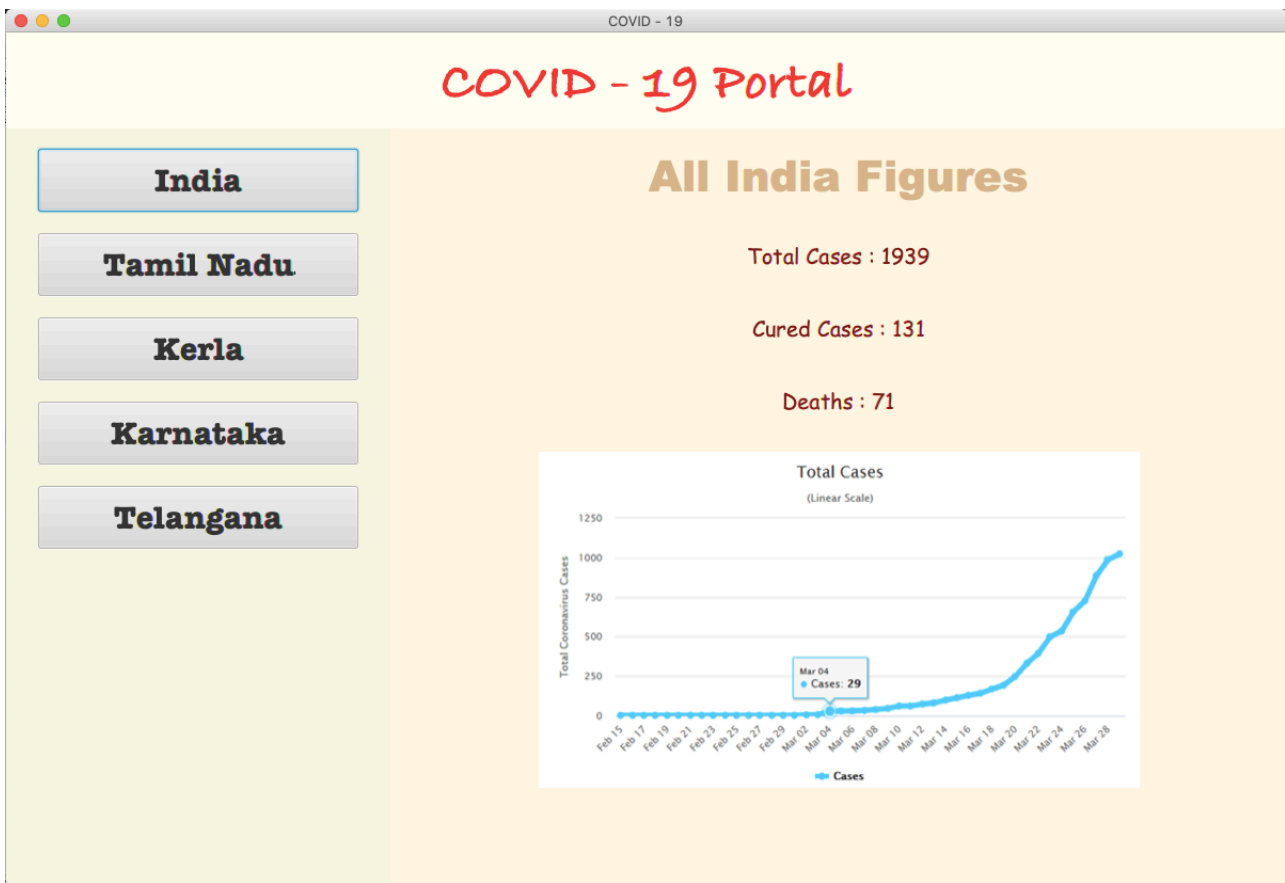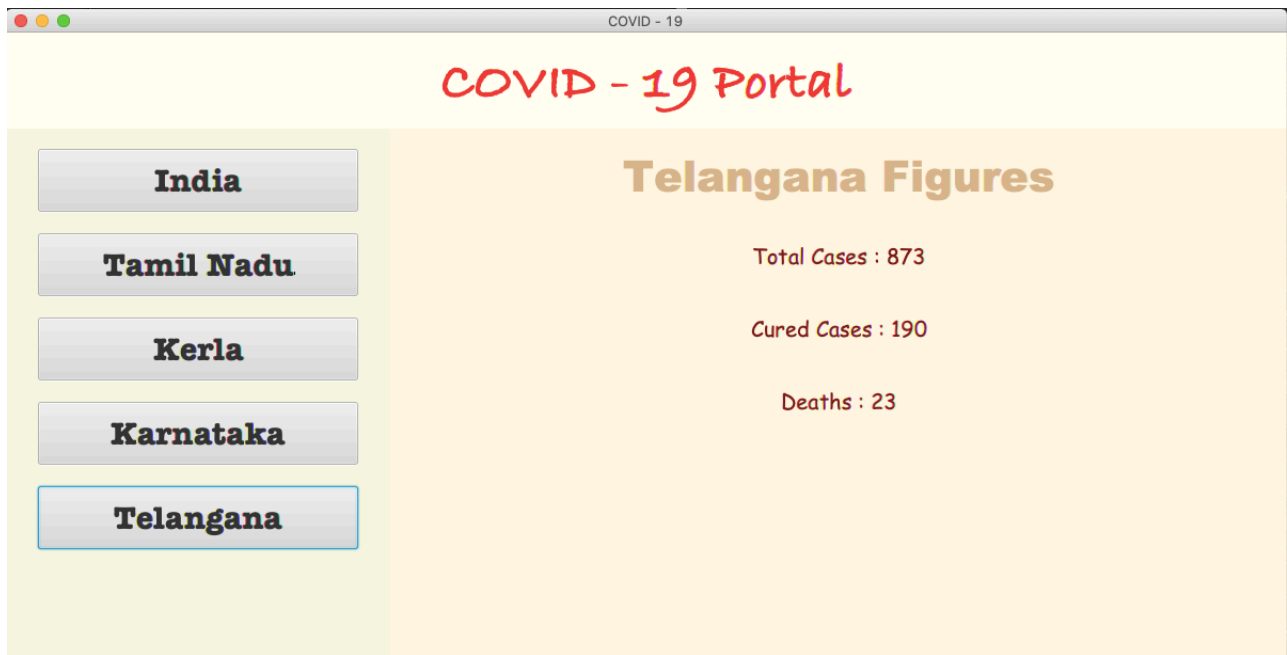
```
COVID - 19

COVID - 19 Portal

India                    Telangana Figures

Tamil Nadu               Total Cases : 873

Kerla                    Cured Cases : 190

Karnataka                Deaths : 23

Telangana
```

Database Details

state	total	cured	deaths
Tamil Nadu	1520	457	17
Karnataka	408	112	16
Kerla	408	291	3
Telangana	873	190	23
India	1939	131	71