

QUESTION 1: Enter Art Competition Details

Code:

index.html:

```
<html>
  <head>
    <title>Mark to Grade</title>

  </head>
  <body>
    <center>
      <form action="addEntry" method="POST">
        Enter Name : <input type="text" name="name"> <br><br>
        Enter email : <input type="text" name="email"> <br><br>
        Enter age : <input type="text" name="age"><br><br>
        <input type="submit">
      </form>
    </center>
  </body>
</html>
```

addEntry.java

```
/*
 * 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 com.mycompany.marksejb;

import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.servlet.ServletException;
```

```

import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

/**
 *
 * @author shankar
 */
public class addEntry extends HttpServlet {

    private Connection conn;

    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException, SQLException {
        response.setContentType("text/html;charset=UTF-8");
        try ( PrintWriter out = response.getWriter()) {

            String name = request.getParameter("name");
            String email = request.getParameter("email");
            int age = Integer.parseInt(request.getParameter("age"));

            recordEntry obj = new recordEntry();
            if( obj.checkUser(name, email) == true){
                obj.enterUser(name, email, age);
                out.println("Insertion successful");

            }else{
                out.println("Account exists");

            }
            out.println("<meta http-equiv='Refresh' content='2.5; url='/marksEJB-1.0-SNAPSHOT/' />");
            conn.close();
        }
    }

    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        try {
            processRequest(request, response);
        }
    }
}

```

```

    } catch (SQLException ex) {
        Logger.getLogger(addEntry.class.getName()).log(Level.SEVERE, null, ex);
    }
}
}

```

recordEntry.java

```

/*
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 * and open the template in the editor.
 */
package com.mycompany.marksejb;

import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.ejb.Stateless;
import javax.servlet.http.HttpServletRequestResponse;

/**
 *
 * @author shankar
 */
@Stateless
public class recordEntry implements recordEntryRemote{
    Connection conn;

    @Override
    public void enterUser(String name, String email,int age) {
        String st = "INSERT INTO art VALUES (" + name + "," +
            + email + "," + age + ")";

        try {
            String url = "jdbc:mysql://localhost:3306/temp";

```

```

String username = "root";
String password = "";
PreparedStatement pstmt = null;
try {

    Class.forName("com.mysql.jdbc.Driver");

    conn = DriverManager.getConnection(url, username, password);

    } catch (SQLException ex) {
        System.out.println(ex.getMessage());
    } catch (ClassNotFoundException ex) {
        Logger.getLogger(recordEntry.class.getName()).log(Level.SEVERE, null, ex);
    }

    try {
        pstmt = conn
            .prepareStatement(st);
    } catch (SQLException ex) {
        Logger.getLogger(recordEntry.class.getName()).log(Level.SEVERE, null, ex);
    }

    try {
        int rs = pstmt.executeUpdate();
    } catch (SQLException ex) {
        Logger.getLogger(recordEntry.class.getName()).log(Level.SEVERE, null, ex);
    }

    pstmt.close();
    conn.close();
    } catch (SQLException ex) {
        Logger.getLogger(recordEntry.class.getName()).log(Level.SEVERE, null, ex);
    }
}

```

```

@Override
public int checkUser(String name, String email) {
    boolean flag = false;
    String st = "SELECT COUNT(*) as total FROM art WHERE name = '" + name + "'";

    try {

```

```

String url = "jdbc:mysql://localhost:3306/temp";

String username = "root";
String password = "";
PreparedStatement pstmt = null;
try {

    Class.forName("com.mysql.jdbc.Driver");

    conn = DriverManager.getConnection(url, username, password);

} catch (SQLException ex) {
    System.out.println(ex.getMessage());
} catch (ClassNotFoundException ex) {
    Logger.getLogger(recordEntry.class.getName()).log(Level.SEVERE, null, ex);
}

try {
    pstmt = conn
        .prepareStatement(st);
} catch (SQLException ex) {
    Logger.getLogger(recordEntry.class.getName()).log(Level.SEVERE, null, ex);
}

try {
    ResultSet rs = pstmt.executeQuery();

    if( rs.getInt("total") == 0){
        return true;
    }

} catch (SQLException ex) {
    Logger.getLogger(recordEntry.class.getName()).log(Level.SEVERE, null, ex);
}

pstmt.close();
conn.close();
} catch (SQLException ex) {
    Logger.getLogger(recordEntry.class.getName()).log(Level.SEVERE, null, ex);
}

return false;
}

```

```
}
```

recordEntryRemote.java

```
/*
 * To change this license header, choose License Headers in Project Properties.
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 * and open the template in the editor.
 */
package com.mycompany.marksejb;

import java.sql.Connection;
import java.sql.SQLException;
import javax.ejb.Remote;

/**
 *
 * @author shankar
 */
@Remote
public interface recordEntryRemote {
    public void enterUser(String name, String email,int age);
    public boolean checkUser(String name, String email);
}
```

OUTPUT:

Initial Database:

name	email	password
harsh	root@gmail.com	12

Input:

Enter Name :

Enter email :

Enter age :

Result

Account exists

Input:

Enter Name :

Enter email :

Enter age :

Result

Insertion successful

Table

name	email	password
harsh	shankar@gmail.com	12
blingus	shankar@gmail.com	17
blinguser	admin@gmail.com	17

QUESTION 2: MAPS API

Code:

index.html

```
<?xml version='1.0' encoding='UTF-8' ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml"
      xmlns:h="http://xmlns.jcp.org/jsf/html">
  <h:head>
    <title>Location</title>
  </h:head>
  <h:body>
    <h:form>
      <h:outputLabel><h2>What place do you want to see on the map?</h2></h:outputLabel>
      <h:inputText maxlength="40" required="true" value="#{mapBean.location}"
requiredMessage="Please enter the address."/>
      <br/><br/>
      <h:commandButton value="Submit" action="#{mapBean.showMap}" />
    </h:form>
  </h:body>
</html>
```

location.xhtml

```
<?xml version='1.0' encoding='UTF-8' ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml"
      xmlns:h="http://xmlns.jcp.org/jsf/html">
  <h:head>
    <title>Maps</title>
  </h:head>
  <h:body>
    <h:outputLabel><h2>Search of #{mapBean.location} results in</h2></h:outputLabel>
    <h:outputLabel><iframe width="600" height="450" style="border:0" loading="lazy"
src="#{mapBean.map}"></iframe></h:outputLabel>
  </h:body>
</html>
```


MapBean.java

```
import javax.faces.bean.ManagedBean;
import javax.faces.bean.RequestScoped;

@ManagedBean
@RequestScoped
public class MapBean {

    private String location = "";
    private String map = "";
    private String key = "AlzaSyCaI5_VTtBgnD-ueNJMsHQHKW2xFazQRYk";
    public MapBean() {
        System.out.println("Created GreetingsBean instance...");
    }

    public String getMap(){
        String map = "https://www.google.com/maps/embed/v1/search?q="+location+"&key="+key;
        return map;
    }

    public String getLocation() {
        return location;
    }

    public void setLocation(String location) {
        this.location = location.trim();
    }

    public String showMap() {
        return "location";
    }
}
```

Output:

What place do you want to see on the map?

college of engineering gu

Submit

Search of college of engineering guindy results in

