**Term-work 4**

**Complete problem definition of the Term-work**

**Design** and **Implement** an APPLET for any computer game of your choice. Store the user name and the score of each game session in the database (MySQL).

**Expected Learning**: Applet life cycle, Java Database connectivity, events, AWT/SWING components, Application Design and Implementation. (May use Generics)

**Source code/Program**

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import javax.swing.\*;

import java.awt.\*;

import java.awt.event.\*;

import java.sql.\*;

class DbConnect2 {

private Connection con;

private Statement st;

private ResultSet rs;

public DbConnect2() {

try{

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

String url = "jdbc:mysql://localhost:3306/game1";

con = DriverManager.getConnection(url,"root","");

st = con.createStatement();

}catch(ClassNotFoundException | SQLException e) {

System.out.println("Error"+e);

}

}

public void getData() {

try{

String query = "select \* from game\_score" ;

rs = st.executeQuery(query);

System.out.println("Records of database");

while(rs.next()) {

String uname = rs.getString("username");

int game\_score = rs.getInt("score");

//String name = rs.getString("name");

//String dept = rs.getString("dept");

System.out.println("Username: " +uname+" GAME SCORE: " +game\_score);

}

}catch(SQLException e) {

System.out.println("Exception "+e);

}

}

public void insert\_data(String uname ,int score2) {

try{

String query1 = "insert into game\_score(username,score)" + "values(?,?)";

PreparedStatement ps = con.prepareStatement(query1);

ps.setString(1,uname);

ps.setInt(2, score2);

ps.execute();

}catch(SQLException e) {

System.out.println("Exception "+e);

}

}

}

class game6 extends DbConnect2 implements ActionListener {

JFrame jf;

JLabel jl, jl1, jl2, jl3;

JButton start,click,stop;

String msg = "";

String str;

String str2;

int score1,score2;

JTextField jtf;

game6() {

jl =new JLabel("Enter username");

jl1 = new JLabel("Press start to start game");

jf = new JFrame("A Simple Game ");

jf.setLayout(new FlowLayout());

jf.setSize(500,100);

jf.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

jf.setVisible(true);

start = new JButton("Start");

click = new JButton("Click");

stop = new JButton("Stop");

jtf = new JTextField(30);

jf.add(jl);

jf.add(jtf);

jf.add(jl1);

jf.add(start);

start.addActionListener((ActionListener) this);

click.addActionListener((ActionListener) this);

stop.addActionListener((ActionListener) this);

}

//@Override

public void actionPerformed(ActionEvent ae) {

str = ae.getActionCommand();

if(str.equals("Start")) {

str2 = jtf.getText();

start.setVisible(false);

jl1.setVisible(false);

jl.setVisible(false);

jtf.setVisible(false);

jl2 = new JLabel("Press click to increase score");

jl3 = new JLabel("Press stop to stop the game");

jf.add(jl2);

jf.add(click);

jf.add(jl3);

jf.add(stop);

}

if(str.equals("Click")) {

score1++;

//System.out.println(score1);

}

if(str.equals("Stop")) {

int score = score1;

String uname = str2;

DbConnect2 connect = new DbConnect2();

connect.insert\_data(uname,score);

connect.getData();

System.exit(0);

}

}

}

public class gameNormal2 extends game5 {

public static void main(String args []){

SwingUtilities.invokeLater(new Runnable() {

public void run() {

game6 g = new game6();

//System.out.println(g.score2);

}

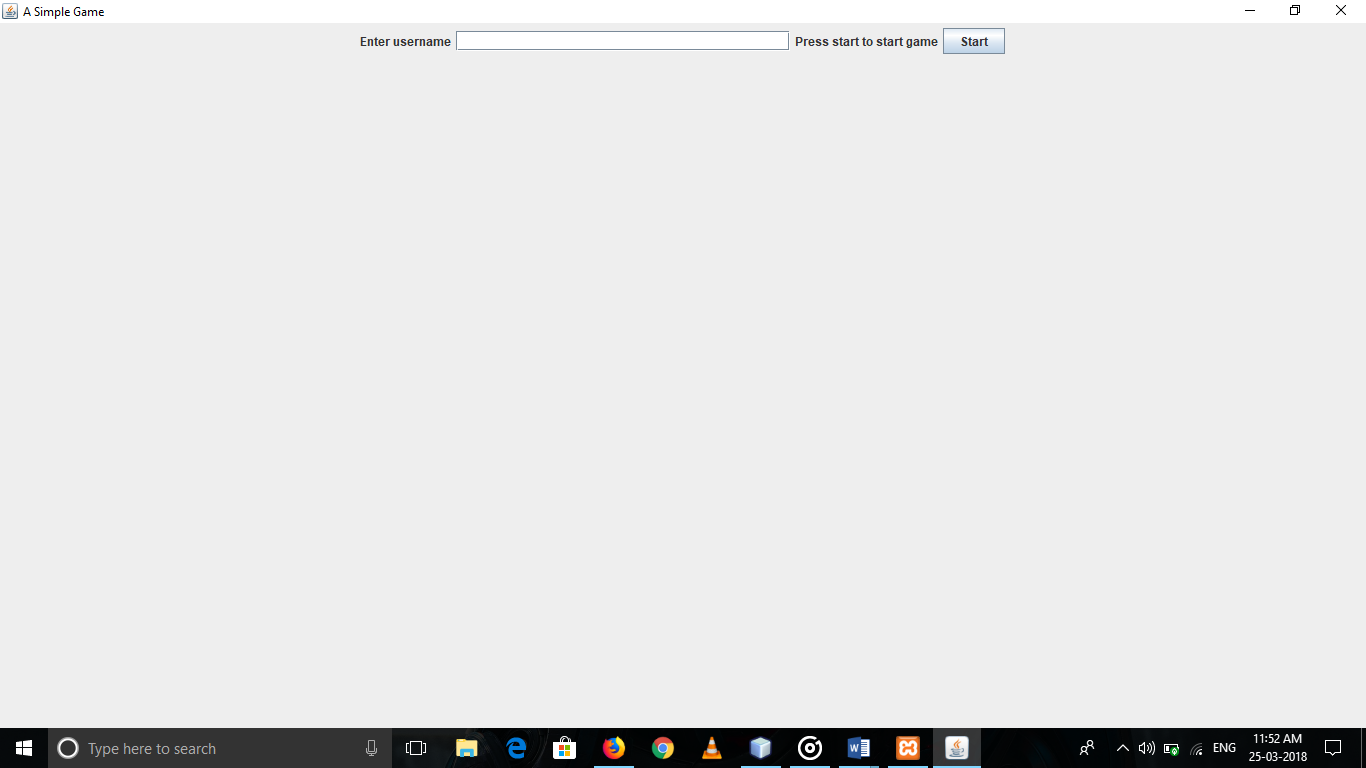
});

}

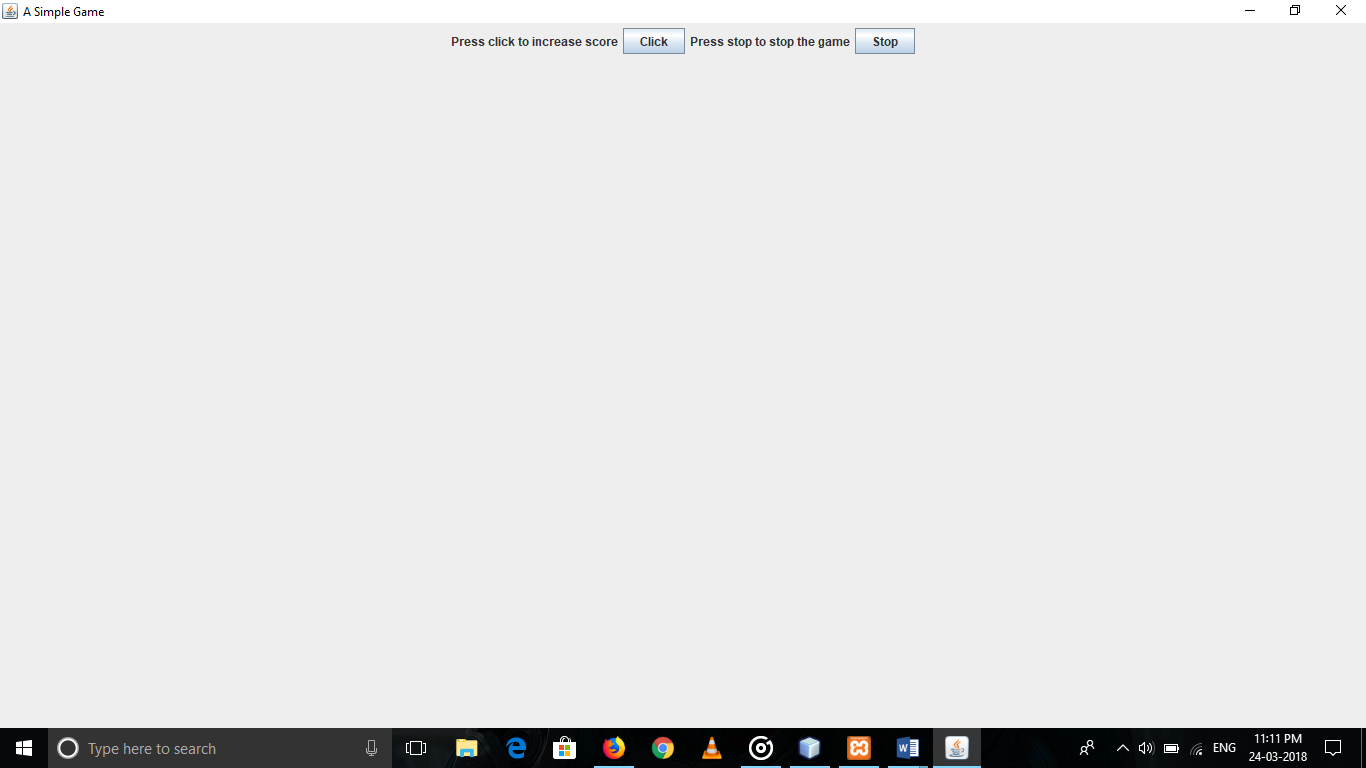
}

**OUTPUT WITH SCREENSHOT**

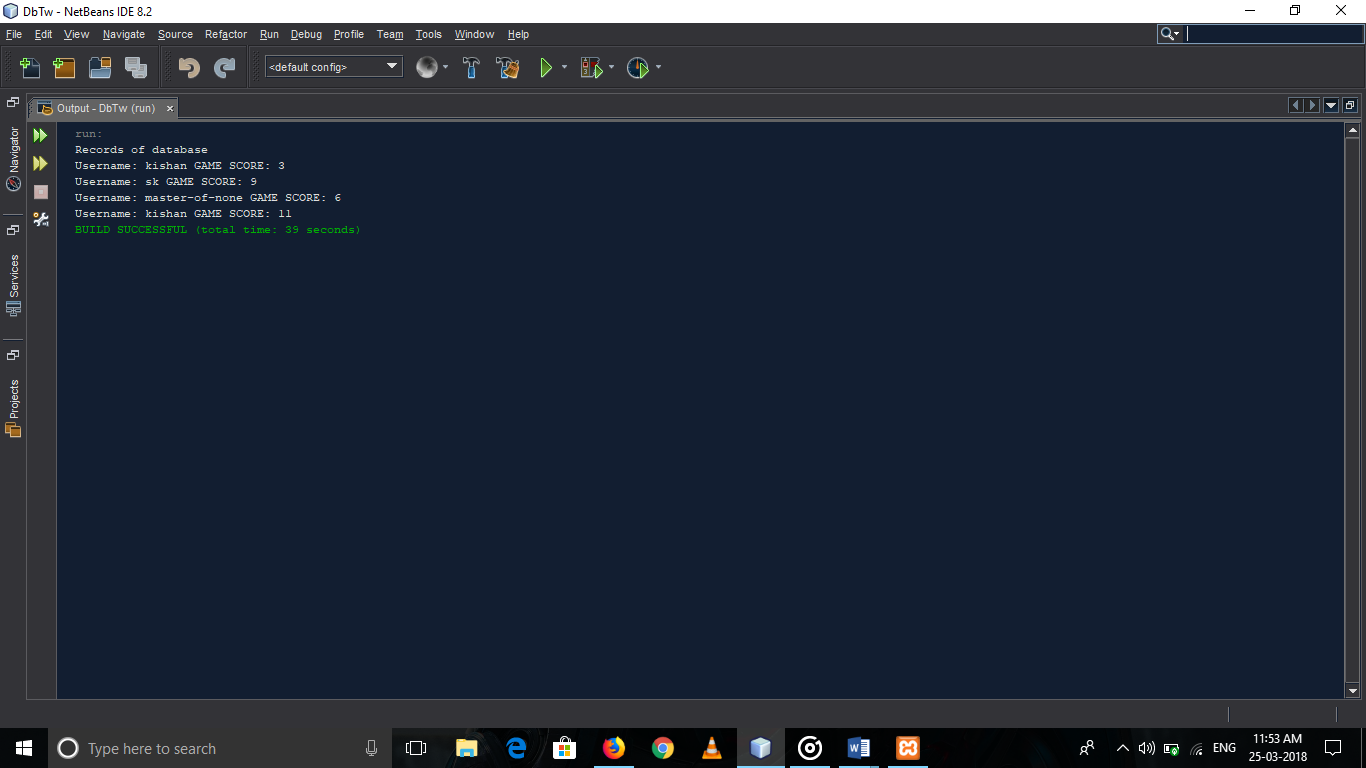
//A simple game screen with start button



//Game screen after game has started



//Output of all scores on console



//Output of all scores in database

