Daffodil International University

Tropic Name : Currency Converter Project in Java

Course Code : CSE-215

Course Title : Object Oriented Programming Lab

Submitted To :

Teacher Name : Nasima Islam Bithi

Department : CSE

Daffodil International University

Submitted By :

Name : Nurjahan Nowshin

ID : 221-15-4632

Section : 61\_W

Department : CSE

Daffodil International Unijversity

***Package com.exchange;***

import java.io.\*;

import java.net.\*;

import java.util.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

import java.io.InputStream;

import java.net.\*;

import com.google.gson.\*

*/\*\**

*\**

*\* @author pakallis*

*\*/*

class Recv

{

private String lhs;

private String rhs;

private String error;

private String icc;

public Recv(

{

}

public String getLhs()

{

return lhs;

}

public String getRhs()

{

return rhs;

}

}

public class Convert extends HttpServlet

{

*/\*\**

*\* Processes requests for both HTTP <code>GET</code> and <code>POST</code> methods.*

*\* @param request servlet request*

*\* @param response servlet response*

*\* @throws ServletException if a servlet-specific error occurs*

*\* @throws IOException if an I/O error occurs*

*\*/*

Protected void processRequest(HttpServletRequest req, HttpServletResponse resp)

throws ServletException, IOException {

String query="";

String amount="";

String curTo="";

String curFrom="";

String submit="";

String res="";

HttpSession session;

resp.setContentType("text/html;charset=UTF-8");

PrintWriter out = resp.getWriter();

*/\*Read request parameters\*/*

amount = req.getParameter("amount");

curTo = req.getParameter("to");

curFrom = req.getParameter("from");*/\*Open a connection to google and read the result\*/*

try {

query = "http://www.google.com/ig/calculator?hl=en&q=" + amount + curFrom + "=?" + curTo;

URL url = new URL(query);

InputStreamReader stream = new InputStreamReader(url.openStream());

BufferedReader in = new BufferedReader(stream);

String str = "";

String temp = "";

while ((temp = in.readLine()) != null)

{

str = str + temp;

}

*/\*Parse the result which is in json format\*/*

Gson gson=new Gson();

Recv st = gson.fromJson(str, Recv.class);

String rhs=st.getRhs();

rhs = rhs.replaceAll("ï¿½", "");

*/\*we do the check in order to print the additional word(millions,billions etc)\*/*

StringTokenizer strto = new StringTokenizer(rhs);

String nextToken;

out.write(strto.nextToken());

nextToken = strto.nextToken();

if( nextToken.equals("million") || nextToken.equals("billion") || nextToken.equals("trillion"))

{

out.println(" "+nextToken);

}

} catch (NumberFormatException e)

out.println("The given amount is not a valid number");

}

}

*// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to edit the code.">*

*/\*\**

*\* Handles the HTTP <code>GET</code> method.*

*\* @param request servlet request*

*\* @param response servlet response*

*\* @throws ServletException if a servlet-specific error occurs*

*\* @throws IOException if an I/O error occurs*

*\*/*

@Override

protectedvoiddoGet(HttpServletRequest request, HttpServletResponse response)

throwsServletException, IOException{

processRequest(request, response);

}

*/\*\**

*\* Handles the HTTP <code>POST</code> method.*

*\* @param request servlet request*

*\* @param response servlet response*

*\* @throws ServletException if a servlet-specific error occurs*

*\* @throws IOException if an I/O error occurs*

*\*/*

@Override

Protected void doPost(HttpServletRequest request, HttpServletResponse response)

ThrowsServletException,IOException{

processRequest(request,response);

}

*/\*\**

*\* Returns a short description of the servlet.*

*\* @return a String containing servlet description*

*\*/*

@Override

PublicStringgetServletInfo(){

return"Short description";

}*// </editor-fold>*

}

