Index.html

```html
<!DOCTYPE html>
<html>
   <head>
      <title>search</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="width=device-width, initial-scale=1.0">
      <link rel="stylesheet" href="design.css">
   </head>
   <body>
      <center>
      <form method="GET" action="searchengine">
         Enter Your Search :
         <input type="text" name="query">
         <br>
         <br>
         <br>
         <br>
         <button type="submit" name="ggl" value="Google">Search With Google</button>
         <br>
         <br>
         <button type="submit" name="bng" value="Bing">Search With Bing</button>
      </form>
      </center>

   <br>
   <br><br>
   <br>
   <br>
   <br>


   <footer class="footer" style="background-color: #ADD8E6;">
   <div class="container">
      <div class="row">
         <div class="col-md-12 text-center">
            <br/>

                  <center>

                  By Viraj Thakkar <br>
                  201806100110094
               </center>
         </div>
      </div>
   </div>
</footer>
   </body>
</html>
```

Searchegine.java

```java
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

/**
 *
 * @author Viraj
 */
public class searchengine extends HttpServlet {

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

        String Qry = request.getParameter("query");
        String Googlekey = request.getParameter("ggl");

        if (Qry.equals("movies") ||Qry.equals("online games") ||Qry.equals("online shopping")
||Qry.equals("games"))
        {

                response.sendError(response.SC_BAD_REQUEST,"RESTRICTED KEYWORD
DETECTED IN INPUT");
        }
        else{

                if("Google".equals(Googlekey))
                {
                   response.sendRedirect("https://www.google.com/search?q="+Qry);
                }
                else
                {
                   response.sendRedirect("https://www.bing.com/search?q="+Qry);
                }

        }
    }
  }
```

Web.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<web-app version="3.1" xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd">
    <servlet>
        <servlet-name>searchengine</servlet-name>
        <servlet-class>searchengine</servlet-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>searchengine</servlet-name>
        <url-pattern>/searchengine</url-pattern>
    </servlet-mapping>
    <session-config>
        <session-timeout>
            30
        </session-timeout>
    </session-config>
</web-app>
```

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