**FileUploading**

Index.html

<!DOCTYPE html>

<!--

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and open the template in the editor.

-->

<html>

<head>

<title>File Upload</title>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

</head>

<body>

<body bgcolor="lightgreen">

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

<h2><center>File Upload</center></h2>

<form action="UploadServlet" method="post" enctype="multipart/form-data">

Select File to Upload: <input type="file" name="file" id="file" required>

Destination: <input type="text" value="/tmp" name="destination">

<br>

<input type="submit" value="Upload file" name="upload" id="upload"><br><br>

</form>

</body>

</html>

UploadServlet.java

package p1;

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.annotation.MultipartConfig;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.\*;

@WebServlet(name="UploadServlet", urlPatterns={"/UploadServlet"})

@MultipartConfig//annotation used for file handling

public class UploadServlet extends HttpServlet {

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

String path = request.getParameter("destination");

Part filePart = request.getPart("file");//method used to get all details of file (such as type, name, location, etc)

String filename = filePart.getSubmittedFileName();

out.println("<!DOCTYPE html>");

out.println("<html>");

out.println("<head>");

out.println("<title>File Uploaded</title>");

out.println("</head>");

out.println("<body bgcolor=lightgreen>");

out.println("<h2>Filename: " + filename);

out.println("</h2>");

out.println("</body>");

out.println("</html>");

try

{

OutputStream os = new FileOutputStream(new File(path+File.separator+filename));

InputStream is = filePart.getInputStream();

int read;

while((read=is.read()) != -1)

{

os.write(read);

}

out.println("File Uploaded Successfully!!!!");

}

catch(FileNotFoundException e)

{

out.println(e);

}

}

}

**FileDownloading**

Index.html  
<!DOCTYPE html>

<!--

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and open the template in the editor.

-->

<html>

<head>

<title>File Download</title>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

</head>

<body bgcolor="lightgreen">

<h1><center>File Download</center></h1>

<center>

Click to Download:<br><br>

<a href="DownloadServlet?filename=abc.txt">Text Document</a>.

<a href="DownloadServlet?filename=EJManual.pdf">PDF Document</a>

</center>

</body>

</html>

DownloadServlet.java

package p1;

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.\*;

@WebServlet(name="DownloadServlet", urlPatterns={"/DownloadServlet"})

public class DownloadServlet extends HttpServlet {

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("APPLICATION/OCTET-STREAM");

PrintWriter out = response.getWriter();

String filename = request.getParameter("filename");

ServletContext context = getServletContext();

InputStream is = context.getResourceAsStream("/"+filename);

response.setHeader("Content-Disposition","attachment; filename=\"" + filename + "\"");

int i;

while((i=is.read()) != -1)

{

out.write(i);

}

is.close();

out.close();

}

}