

```
package ch.std.fileservice.rest;
import java.io.FileInputStream;
import java.io.FileOutputStream;
import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.net.URLConnection;
import javax.activation.MimetypesFileTypeMap;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;
import org.springframework.web.servlet.mvc.annotation.annotation.AnnotationMethodMapping;

@RestController
@RequestMapping(value = "/rest/file")
public class GenericFileService {
    public GenericFileService() {
        super();
    }

    @GetMapping
    public void get(HttpServletRequest httpServletRequest, HttpServletResponse httpServletResponse) throws Exception {
        String path = httpServletRequest.getParameter("path");
        if (path == null) {
            httpServletResponse.setContentType("text/html; charset=UTF-8");
            httpServletResponse.getWriter().print("path is missing");
            return;
        }
        String mimeType = URLConnection.guessContentTypeFromName(path);
        if (mimeType == null) {
            MimetypesFileTypeMap mimeTypesMap = new MimetypesFileTypeMap();
            mimeType = mimeTypesMap.getContentType(path);
        }
        httpServletResponse.setContentType(mimeType);
        httpServletResponse.setHeader("Transfer-Encoding", "chunked");
        OutputStream os = httpServletResponse.getOutputStream();
        byte[] buffer = new byte[1024];
        int bytesRead = -1;
        try {
            FileInputStream fis = new FileInputStream(path);
            while ((bytesRead = fis.read(buffer)) > 0) {
                os.write(buffer, 0, bytesRead);
                os.flush();
            }
        } catch (Exception e) {
            httpServletResponse.setContentType("text/html; charset=UTF-8");
            os.write(("path " + path + " does not exist").getBytes(StandardCharsets.UTF_8));
            os.flush();
        }
        return;
    }
}

// Das folgende Listing zeigt die Spring Boot Application:
package ch.std.fileservice;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication
public class GenericFileServiceApplication {
    public static void main(String[] args) {
        SpringApplication.run(GenericFileServiceApplication.class, args);
    }
}
```

```
Das folgende Listing zeigt den dazu passenden Spring Boot File Service Client entwickelt als
Command Line Applikation:package ch.std.fileservice.client;import
java.io.FileOutputStream;import java.net.URL;import java.util.Arrays;import
org.springframework.boot.ApplicationArguments;import
org.springframework.boot.ApplicationRunner;import
org.springframework.boot.SpringApplication;import
org.springframework.boot.WebApplicationType;import
org.springframework.boot.autoconfigure.SpringBootApplication;import
org.springframework.core.io.buffer.DataBufferUtils;import
org.springframework.http.HttpEntity;import org.springframework.http.HttpHeaders;import
org.springframework.http.HttpMethod;import
org.springframework.http.MediaType;import
org.springframework.http.ResponseEntity;import
```

```

org.springframework.http.converter.ByteArrayHttpMessageConverter;&#xA;import
org.springframework.web.client.RestTemplate;&#xA;@SpringBootApplication&#xA;public class
GenericFileServiceClient implements ApplicationRunner {&#xA;    public static void main(String[]
args) throws Exception {&#xA;        SpringApplication app = new
SpringApplication(GenericFileServiceClient.class);&#xA;
app.setWebApplicationType(WebApplicationType.NONE);&#xA;        app.run(args);&#xA;    }&#xA;
@Override&#xA;    public void run(ApplicationArguments args) throws Exception {&#xA;        URL url =
null;&#xA;        try {&#xA;            url = new URL(args.getOptionValues(&#34;url&#34;).get(0));&#xA;
        } catch (Exception e) {&#xA;            System.err.println(&#34;missing --url option
argument&#34;);&#xA;            this.help();&#xA;            return;&#xA;        }&#xA;        String out =
null;&#xA;        try {&#xA;            out = args.getOptionValues(&#34;out&#34;).get(0);&#xA;        } catch
(Exception e) {&#xA;            }&#xA;        RestTemplate restTemplate = new RestTemplate();&#xA;
restTemplate.getMessageConverters().add(new ByteArrayHttpMessageConverter());&#xA;
HttpHeaders headers = new HttpHeaders();&#xA;        HttpEntity entity = new
HttpEntity(headers);&#xA;        ResponseEntity response = restTemplate.exchange(url.toString(),
HttpMethod.GET, entity, byte[].class, &#34;1&#34;);&#xA;        if (out != null) {&#xA;            try
(FileOutputStream fos = new FileOutputStream(out)) {&#xA;
fos.write(response.getBody());&#xA;            }&#xA;            System.out.println(&#34;result written to file
&#34; + out);&#xA;        }&#xA;        private void help() {&#xA;            System.out.println(&#34;usage java -jar
genericfileclient-0.0.1-SNAPSHOT.jar --url= --out=&#34;);&#xA;
System.out.println(&#34;example:&#34;);&#xA;            System.out.println(&#34;java -jar
genericfileclient-0.0.1-SNAPSHOT.jar --url=http://localhost:8080/rest/file?path=in/bigimage.jpg
--out=out/bigimage.jpg&#34;);&#xA;        }&#xA;}&#xA;}&#xA;Das File bigimage.jpg kann ersetzt werden durch
eine real existierende Datei analog kann der Output Pfad angepasst werden.

```

Client und Service sind am besten in 2 separaten Spring Boot Projekten zu programmieren z.B. mit der Eclipse IDE.

## Feedback

War dieser Blog für Sie wertvoll. Wir danken für jede Anregung und Feedback

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<https://www.simtech-ag.ch/HttpServletResponse>