3. 파일업로드



차례

- 1. Spring boot 파일업로드 환경 설정
- 2. 파일업로드 구현
- 3. 첨부파일 조회

1. 환경설정

application.properties

```
spring.servlet.multipart.enabled=true
spring.servlet.multipart.location=d:\\upload
spring.servlet.multipart.max-request-size=30MB
spring.servlet.multipart.max-file-size=10MB
```

com.example.japb01.upload.path=d:\\upload # controller에서 사용할 upload path value

■ build.gradle에 의존성 추가

// https://mvnrepository.com/artifact/net.coobird/thumbnailator implementation group: 'net.coobird', name: 'thumbnailator', version: '0.4.20'

UploadFileDTO와 UploadResultDTO 작성

```
    dto
    upload
    upload
    uploadFileDTO
    uploadResultDTO
    uploadRe
```

```
@Data
@Builder
@AllArgsConstructor
@NoArgsConstructor
public class UploadResultDTO {
  private String uuid;
  private String filename;
  private boolean image;
  public String getLink(){
    if(image){
       return "s "+uuid+" "+filename;
     }else{
       return uuid+" "+filename;
```

controller 구현

```
@Controller
@Log4j2
@RequestMapping("/upload")
public class UpDownController {

// application.properties에 설정된 upload path
@Value("${com.example.japb01.upload.path}") // import 시에 springframework으로 시작하는 Value
private String uploadPath;

...
}
```

controller 구현(계속)

```
@GetMapping("/uploadForm")
public void uploadForm(){
}
```

```
@PostMapping(value = "/uploadPro", consumes = MediaType. MULTIPART_FORM_DATA_VALUE)
public void upload(UploadFileDTO uploadFileDTO){
  log.info("~~~~~~"+uploadFileDTO);
  if(uploadFileDTO.getFiles() != null) {
    uploadFileDTO.getFiles().forEach(multipartFile -> {
       String originalName=multipartFile.getOriginalFilename();
       log.info(originalName);
       String uuid= UUID. randomUUID().toString();
       Path savePath= Paths.get(uploadPath, uuid+" "+originalName);
       boolean image=false;
      try{
         multipartFile.transferTo(savePath);
         if(Files.probeContentType(savePath).startsWith("image")){
           image = true;
           File thumbFile = new File(uploadPath, "s_" + uuid+"_"+ originalName);
           Thumbnailator.createThumbnail(savePath.toFile(), thumbFile, 200,200);
       }catch (IOException e){ e.printStackTrace(); }
    });
```

▪ 첨부파일 조회(controller)

```
@GetMapping("/view/{fileName}")
public ResponseEntity<Resource> viewFileGET(@PathVariable String fileName){
  Resource resource = new FileSystemResource(uploadPath+File.separator + fileName);
  String resourceName = resource.getFilename();
  HttpHeaders headers = new HttpHeaders();
  try{
    headers.add("Content-Type", Files.probeContentType( resource.getFile().toPath() ));
  } catch(Exception e){
    return ResponseEntity.internalServerError().build();
  return ResponseEntity.ok().headers(headers).body(resource);
```

▪ 첨부파일 조회(화면구현)

```
<!DOCTYPE html>
<a href="http://www.thymeleaf.org"><a href="http://www.thymeleaf.org"</a>
   xmlns:layout="http://www.ultraq.net.nz/thymeleaf/layout"
   layout:decorate="~{layout/basic.html}">
div layout:fragment="content">
  <div class="col">
     <div>[[${fileList}]]</div>
     <div class="card" th:if="${fileList !=null && fileList.size() >0}">
        <div th:each="fileDTO:${fileList}">
          <div th:if="${fileDTO.image}">
             <img th:src="|/upload/display/${fileDTO.getLink()}|">
          </div>
          <div th:unless="${fileDTO.image}">
             <img src="/images/file.jpg">
             <span th:each="fileDTO:${fileList}">[[${fileDTO.getLink()}]]</span>
          </div>
        </div>
     </div>
  </div>
</div>
```

■ 파일삭제 구현

```
@GetMapping("/remove/{fileName}")
public String removeFile(@PathVariable String fileName){
  Resource resource = new FileSystemResource(uploadPath+File.separator + fileName);
  String resourceName = resource.getFilename();
  Map<String, Boolean> resultMap = new HashMap<>();
  boolean removed = false;
  try {
     String contentType = Files.probeContentType(resource.getFile().toPath());
     removed = resource.getFile().delete();
    //섬네일이 존재한다면
    if(contentType.startsWith("image")){
       File thumbnailFile = new File(uploadPath+File.separator + "s_" + fileName);
       thumbnailFile.delete();
  } catch (Exception e) {
    log.error(e.getMessage());
  return "redirect:/upload/uploadForm";
```