[Upload & Download Attachment]

Technical Document

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# Table of Contents

[Table of Contents 1](#_Toc928258)

[[Upolad & Download Attachment] 2](#_Toc928259)

[Description 2](#_Toc928260)

[1.1 Mockup screen: 2](#_Toc928261)

[1.2 Angular & Spring Models 2](#_Toc928262)

[1.3 Angular Component 3](#_Toc928263)

[1.4 Rest Services 3](#_Toc928264)

[1.5 Flow Services: 4](#_Toc928265)

[1.6 Repository Functions 4](#_Toc928266)

[1.7 Database Script: 5](#_Toc928267)

[1.8 ER Diagram: 5](#_Toc928268)

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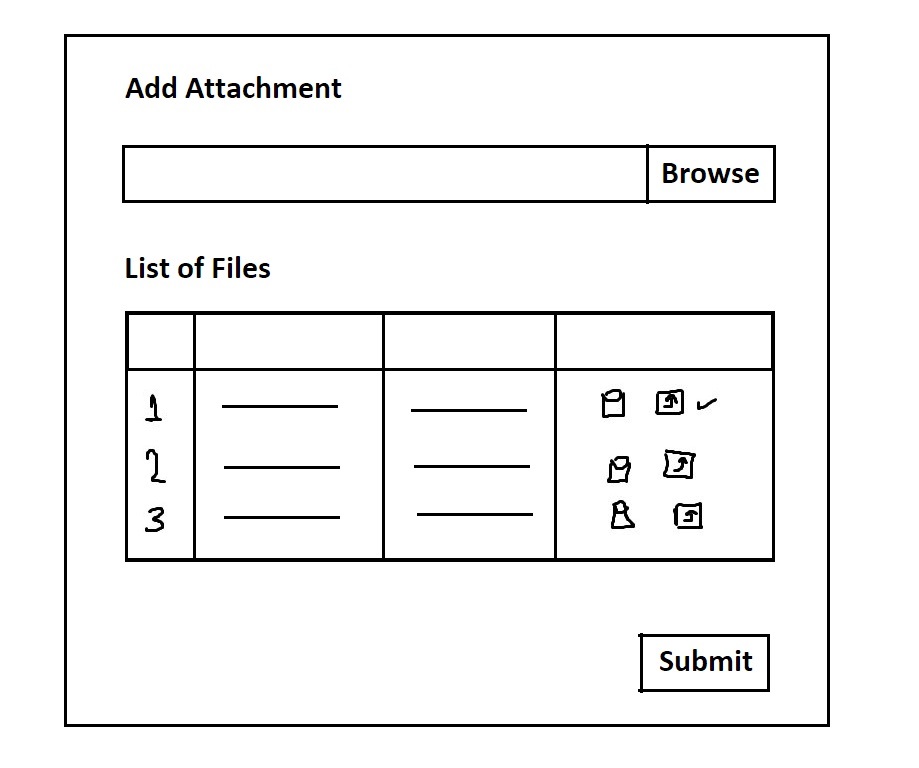
# [Upload & Download Attachment]

Refer to: [Taiga URL]

## Description

Add Attachments (Upload) for Course and View Attachment

## Mockup screen:



## Angular & Spring Models

|  |  |  |  |
| --- | --- | --- | --- |
| **New** | **Class Name** | File | |
| **Angular Path** | | app/infrastructure/components/manage-attachment/shared/data/file.data.ts | |
| **Spring Path** | | model/attachment/File.java | |
| **Fields** | | | |
| **Attribute** | | **Angular Data Type** | **Spring Data Type** |
| name | | String | String |
| type | | String | String |
| size | | Number | Int |
| extension | | String | String |
| source | | String | String |
| File\_Source\_id | | String | String |
| File\_id | | Number | Int |
| File\_path | | String | String |

## Angular Component

|  |  |  |
| --- | --- | --- |
| **New** | **Class Name** | Upload |
| **Path** | | App/infrastructure/components/manage-attachment/components/upload/upload.component.[ts/html] |

|  |  |  |
| --- | --- | --- |
| **New** | **Class Name** | Download |
| **Path** | | App/infrastructure/components/manage-attachment/components/download/download.component.[ts/html] |

|  |  |  |
| --- | --- | --- |
| **New** | **Class Name** | Attachment.service |
| **Path** | | App/infrastructure/components/manage-attachment/shared/attachment.service.ts |
| **Function** | | uploadFile(file: File)  uploadFiles(files:File[])  downloadFile(id:number)  removeFile(id : number) |

## Rest Services

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **New** | **Name** | | api/attachment/file | | **Method** | POST |
| **Controller** | | | AttachmentRes | | **Function** | uploadFile(file) |
| **REST Parameter** | | | | | | |
| **Attribute** | | **Parameter Type** | | **Data Type** | **Description** | |
| file | | FormData | | File | Upload one file | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **New** | **Name** | | api/attachment/files | | **Method** | POST |
| **Controller** | | | AttachmentRes | | **Function** | uploadFiles(file[]) |
| **REST Parameter** | | | | | | |
| **Attribute** | | **Parameter Type** | | **Data Type** | **Description** | |
| file | | FormData | | File[] | Upload multiple files | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **New** | **Name** | | api/attachment/{fileID} | | **Method** | GET |
| **Controller** | | | AttachmentRes | | **Function** | download(id) |
| **REST Parameter** | | | | | | |
| **Attribute** | | **Parameter Type** | | **Data Type** | **Description** | |
| id | | path | | int | Download file from server | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **New** | **Name** | | api/attachment/{fileID} | | **Method** | | DELETE |
| **Controller** | | | AttachmentRes | | **Function** | | removeFile(id) |
| **REST Parameter** | | | | | | | |
| **Attribute** | | **Parameter Type** | | **Data Type** | | **Description** | |
| id | | path | | int | | Remove file from server | |

## Spring Service:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **New** | **Class Name** | attachmentService | **Function** | uploadFile(file) |
| **Description** | | Upload File | | |
| **Steps** | | | | |
|  | | | | |

## Spring Repository

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **New** | **Class Name** | AttachmentRep | **Type** | Insert SQL |
| **Function** | | insertNewFile(file) | | |
| **Query** | | | | |
| INSERT INTO attachment (file\_name, content\_type, extension, file\_size, file\_path, upload\_date, source\_id, file\_src\_id) VALUES (?, ?, ?, ?,?,?,?) | | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **New** | **Class Name** | AttachmentRep | **Type** | Select SQL |
| **Function** | | getFileById(id) | | |
| **Query** | | | | |
| SELECT file\_path from attachment where id = ? | | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **New** | **Class Name** | FilesRep | **Type** | Delete SQL |
| **Function** | | removeFile(id) | | |
| **Query** | | | | |
| DELETE from attachment where id = ? | | | | |

## Database Script:

CREATE TABLE attachment (

file\_id INT NOT NULL AUTO\_INCREMENT PRIMARY KEY,

file\_name VARCHAR(50) NOT NULL,

content\_type VARCHAR(10) NOT NULL,

file\_size INT Not NULL,

extension VARCHAR(6) NOT NULL,

file\_path VARCHAR(100) NOT NULL,

upload\_date DATE NOT NULL,

source\_id INT NOT NULL,

file\_src\_id INT NOT NULL,

CONSTRAINT FOREIGN KEY (file\_src\_id) REFERENCES file\_source (id),

);

CREATE TABLE file\_source (

id INT NOT NULL AUTO\_INCREMENT PRIMARY KEY,

lable\_en INT NOT NULL

);

## ER Diagram: