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I am not well versed with the API development, being a fresher I have only theoretical knowledge on this topic. I took the help of various sources like Google, Github, YouTube to come up with solution.

Springboot is used to build the REST APIs for uploading and downloading files, and POSTMAN is used to test the APIs.

Spring Initializr web tool is used to generate the application. The file is then unzipped and imported into the IDE.

Basic requirements like uploading files, downloading files and accessing them through POSTMAN has been implemented.

Firstly, the spring boot application is configured to enable multipart file uploads and specifications like maximum file size is defined.

@ConfigurationProperties, property is used to bind the application properties to a POJO class.

The ConfigurationProperties needs to enabled which is enabled through @EnableConfigurationProperties.

The REST API is then written for uploading and downloading files with the help of controller class FileController.

The FileController class uses FileStorageService for storing files in the file system and retrieving them. It returns a payload of type UploadFileResponse after the upload is completed.

UploadFileResponse class is defined which is used to return the response from the /uploadFile and /uploadMultipleFiles APIs.

A service for storing files in the file system and retrieving them is written. A class called FileStorageService is defined.

The FileStorageService would throw some exceptions in case of unexpected errors.

FileStorage exception is thrown when error occurs while storing a file in the file system.

MyFileNotFoundException is thrown when a file that user is trying to download is not found.

The application is then tested via POSTMAN.

mvn spring-boot: run

It can be accessed at localhost:8080

The front end is developed with the help of Javascript, HTML and CSS.

There have been certain issues that aroused during the building of this project, the packages were not installing properly, so I looked into sites like stack overflow to fix the problem.

The one main issue with this code is doesn't work if you are using `web flux` instead of `web` i am getting error **Required Multipart File parameter 'file' is not present.**

There are many errors in the code but I have tried to learn the things required in the assignment and understood them too.

I tried to study it thoroughly so that I can understand how API works and how they can be developed with the Spring Framework. All the necessary coding have been done and I am trying my best to learn everything quickly so that I can adapt to it.