



FILE BACKUP SYSTEM PROJECT SUMMARY

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ELECTRICAL ENGINEERING
FOR COURSE ELEN 6770

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1 Overview

Our File Backup System is a cloud-based web application in which you could backup and fetch your own file at any time. The application also implements file management system where you could download back-up from the cloud or delete files in the cloud.

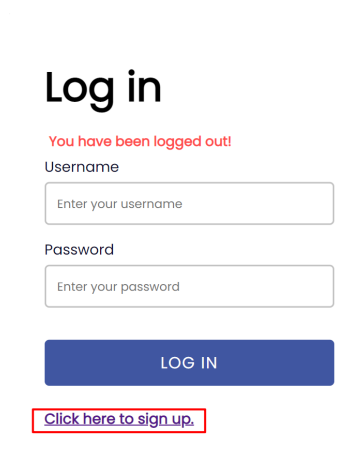
2 User Guide

2.1 Visit our website

You can visit our Homepage: `http://18.118.99.89:8080`

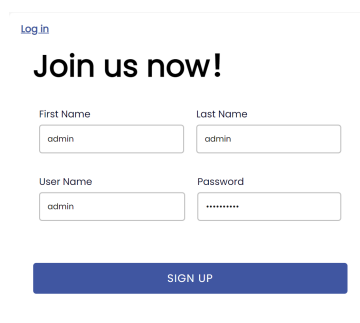
2.2 Sign up and log in

If it is the first time you visit our website, click on the "Click here to sign up" at the bottom of the login page for a quick sign up. If not, directly input your username and password to log in to our system.



The screenshot shows a "Log in" form. At the top, it says "Log in" in a large, bold font. Below that, a red message reads "You have been logged out!". There are two input fields: "Username" with the placeholder text "Enter your username" and "Password" with the placeholder text "Enter your password". Below the password field is a blue "LOG IN" button. At the bottom, there is a red-bordered link that says "Click here to sign up."

Input your basic information and click on the "SIGNUP" button, then you have successfully registered a new account!



The screenshot shows a "Join us now!" sign-up form. At the top, it says "Join us now!" in a large, bold font. There are four input fields: "First Name" and "Last Name" (both with the placeholder text "admin"), and "User Name" and "Password" (both with the placeholder text "admin"). Below the password field is a blue "SIGN UP" button. There is also a small "Log In" link at the top left of the form.

After you successfully sign up, you will be redirected to the original login page. Input your username and password, and enjoy our website!

Log in

Sign up is successful! Welcome admin

Username

Password

LOG IN

[Click here to sign up.](#)

2.3 Upload a file

Click on the "Choose file" and choose a local file in your device. Then click on the "Upload" button on the right side.

Logout

File Backup System

This is the final project of ELEN 6770 in Columbia University.

step1

Upload a New File:

Choose File

No file chosen

step2

Upload files

Upload

File Name

Yang Yu
yy3102@columbia.edu

Wenxiang Zhou
wz2542@columbia.edu

2 Members Visit our github homepage

If the file is uploaded successfully, you can see the file information below.

Logout

File Backup System

This is the final project of ELEN 6770 in Columbia University.

Upload a New File:

Choose File

No file chosen

Upload

File successfully uploaded: logo-white-black.jpg

File Name

View

Delete

logo-white-black.jpg

Yang Yu
yy3102@columbia.edu

Wenxiang Zhou
wz2542@columbia.edu

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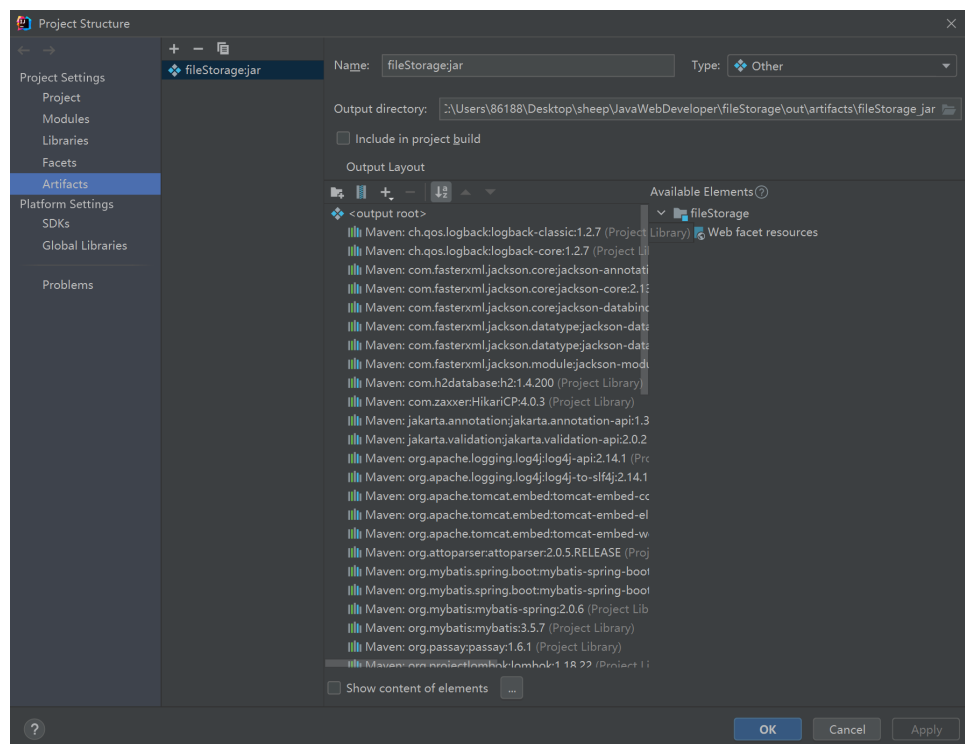
2.4 Manage your files

You can manage all your files in the file management panel. Click on the "View" button, you can download the file from the cloud. Click on the "delete" button, you can delete the file in the cloud.

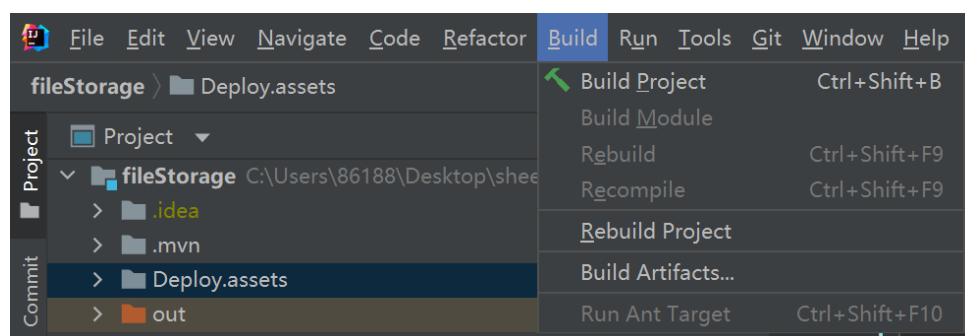
3 Deployment

3.1 Package Spring Boot project into jar package

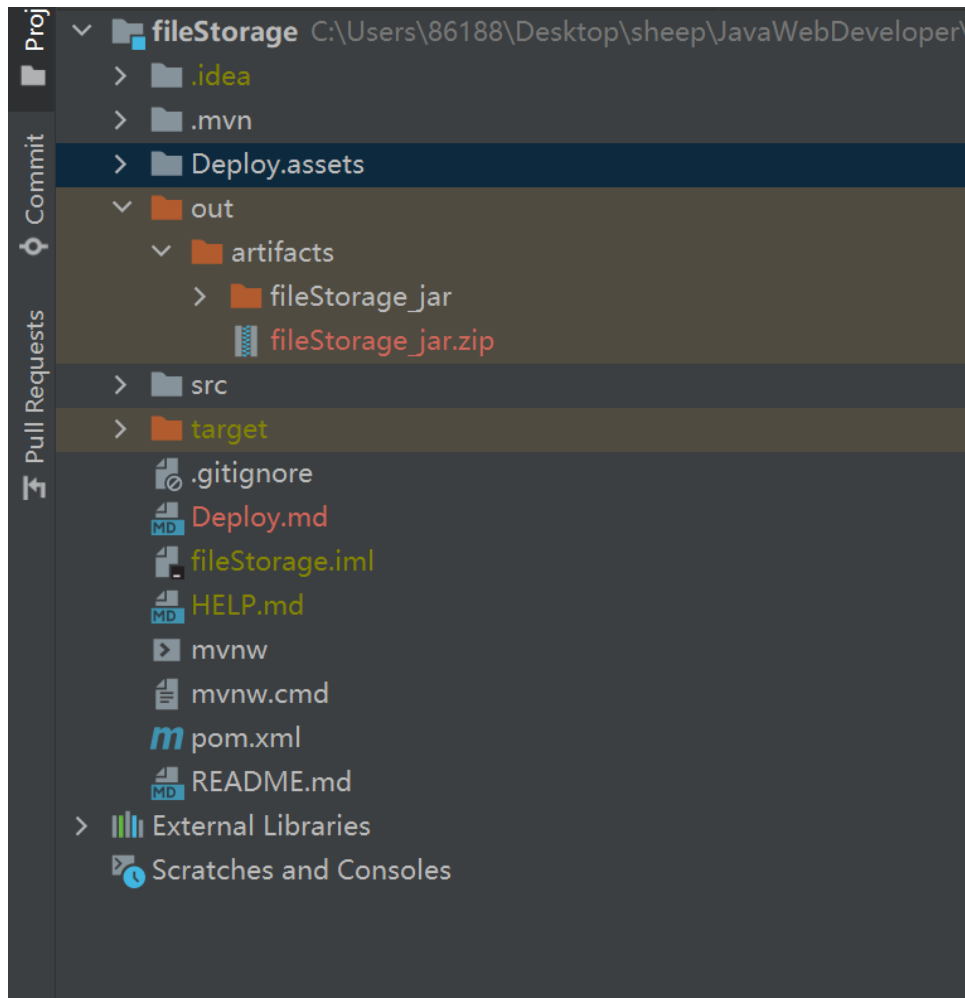
3.1.1 Edit Build Configuration



3.1.2 Build Artifact

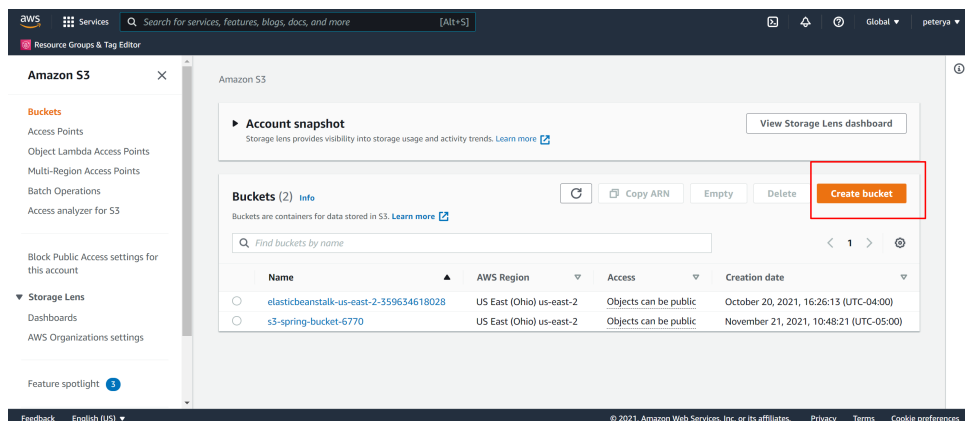


3.1.3 View jar file in /out/Artifacts

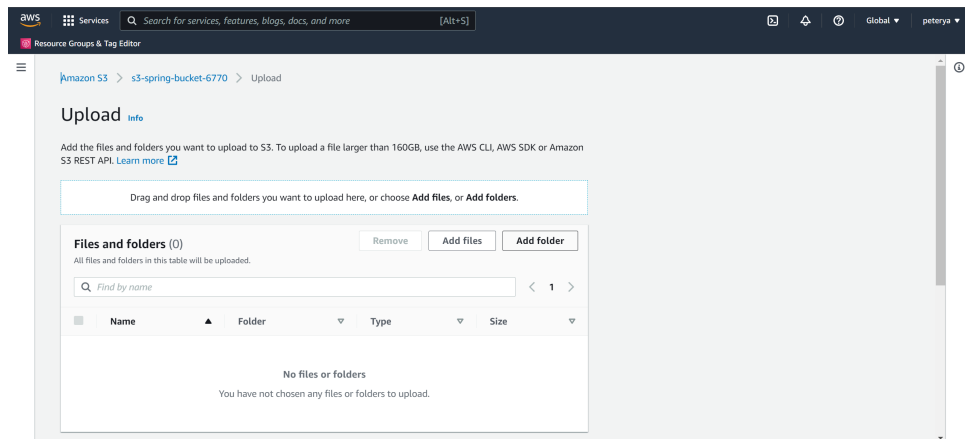


3.2 Upload jar file to Amazon S3 bucket

3.2.1 Create a bucket

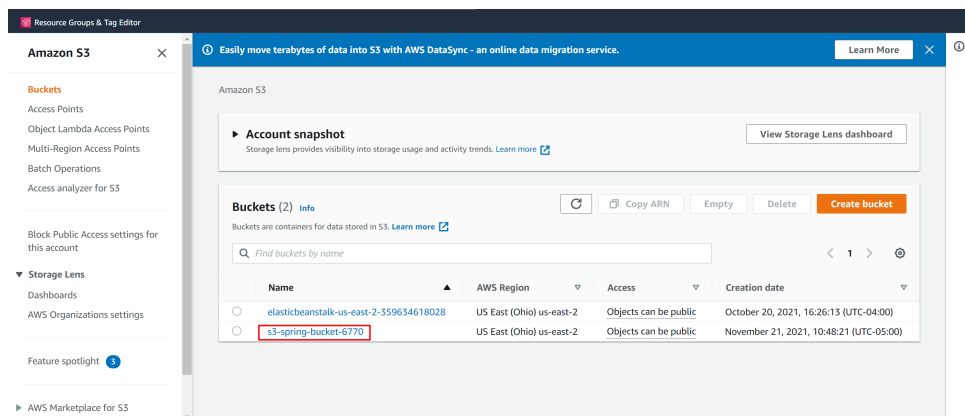
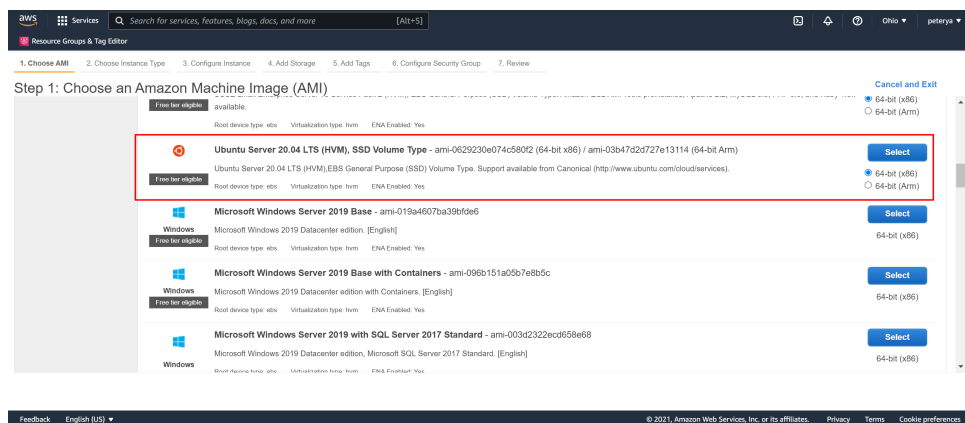


3.2.2 Upload project to S3 bucket



3.3 Configure an Amazon EC2 AMI instance

3.3.1 Create a VM instance



3.3.2 Login the VM via SSH

```
ssh -i <key file name> <server_ip_address>
```

3.3.3 Make some basic configuration

```
sudo apt install unzip  
sudo apt install openjdk-11-jdk
```

3.4 Get object from S3 and Run application

3.4.1 Get object from S3

```
wget <objectURL>
```

3.4.2 Run application

```
nohup java -jar <jar file name>
```