



SUPINFO
International University

INSTITUTE OF INFORMATION TECHNOLOGY

Class Group Project *Development/Architecture*

Delivery

Group members
Documentation

Delivery

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Version 1.0

Last update: 06/06/2016

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1 GROUP SUMMARY

1.1 GROUP MEMBERS

Campus: Paris

Class: Msc.1.

ID Open Campus	Last Name	First Name	Photo
290887	JIANG	CHEN	
201106	ZHANG	TIANJIAN	
201107	ZHANG	XIAOLONG	
201092	GUO	YONG	
201129	CAI	ZHIYONG	
201104	YAN	KAI	

2 PROJECT REPORT

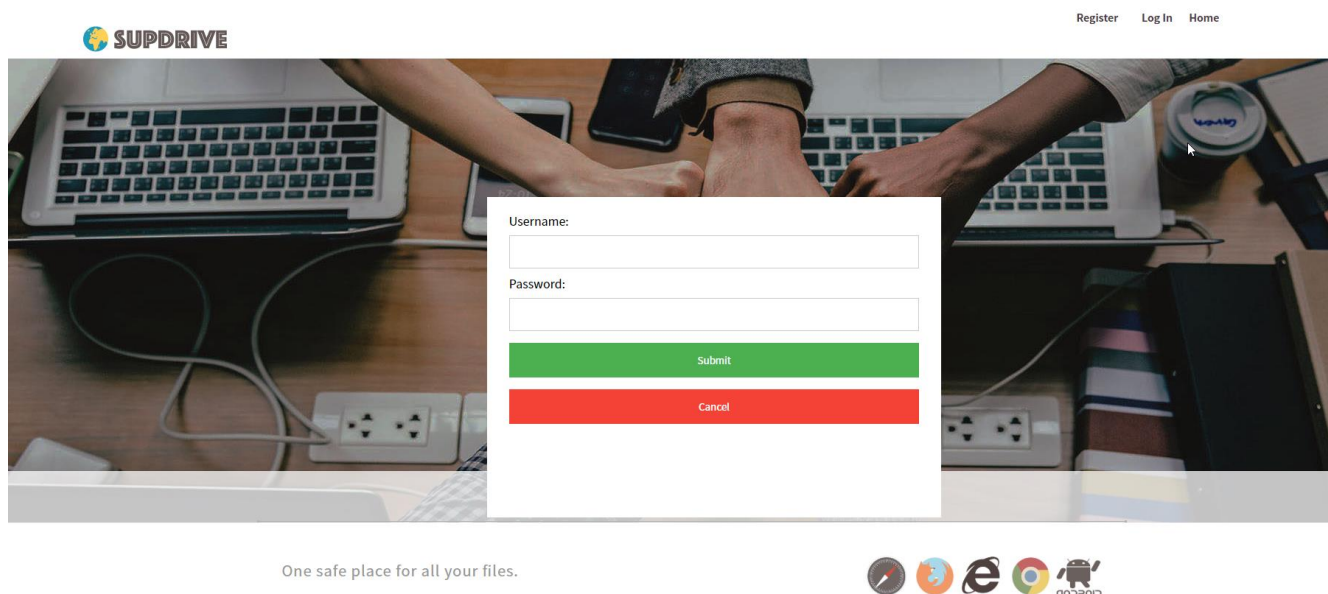
SUPFile Group Project Web API Introduction

Development Environment:

1. Programming language:
 - a) Java ,nodejs
2. Library:
 - a) React
 - b) Jacson
 - c) Jersey
3. IDE
 - a) NetBeans
 - b) Visual Studio Code
4. Database:
 - a) MySQL Database
5. System
 - a) Debian 9
 - b) Windows server 2016
6. Virtualization environment
 - a) docker
7. Software
 - a) Oracle JDK
 - b) Apache tomcat
 - c) Squid
 - d) NodeJS

2.1 USER GUIDE

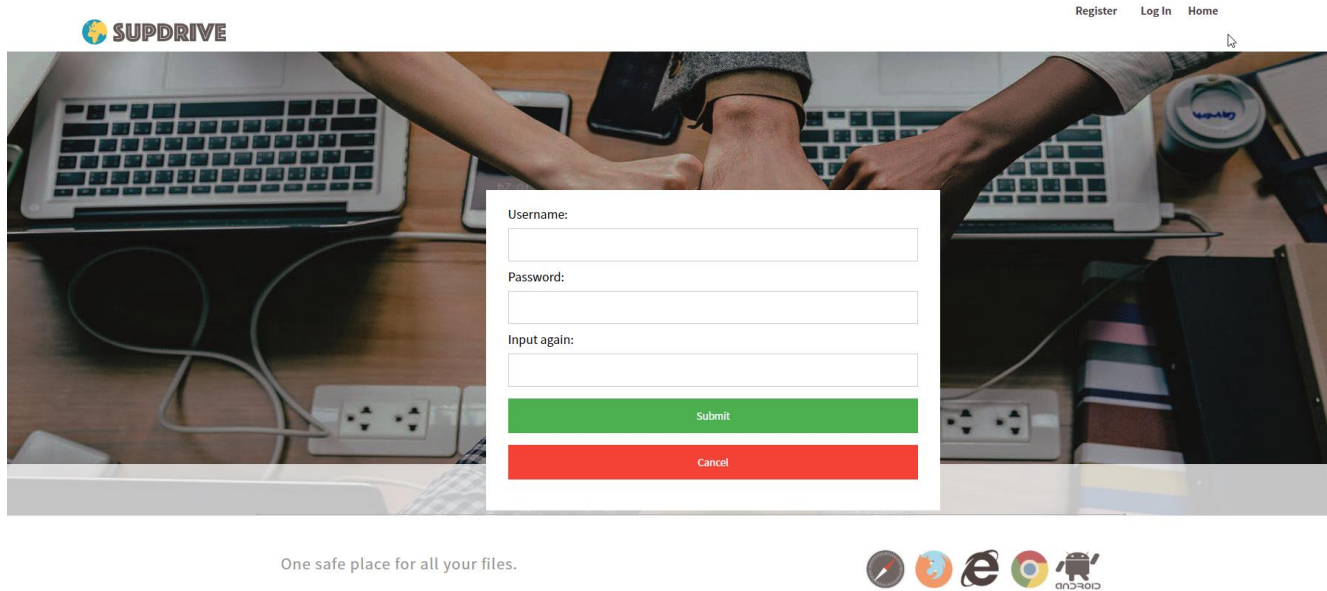
2.1.1 login



i. Open the website;

- ii. *Fill your account and password;*
- iii. *Click logging in button.*

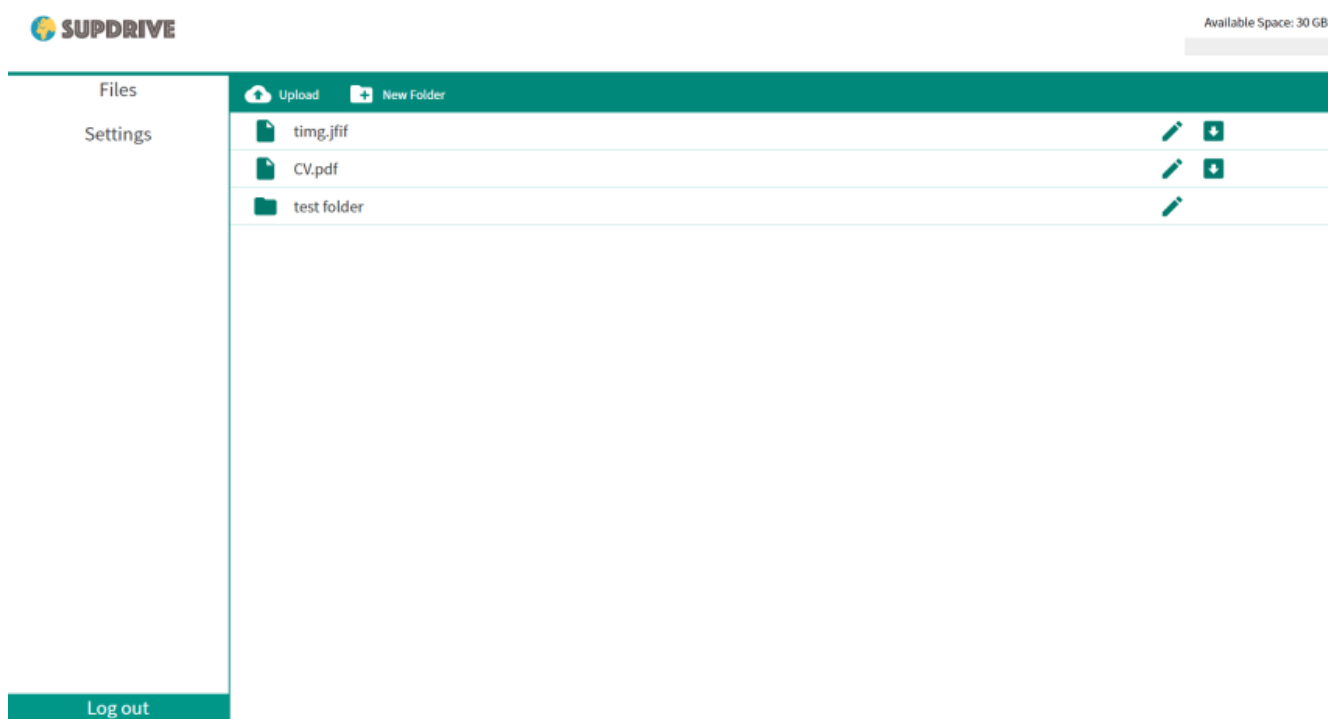
2.1.2 Register



The screenshot shows the SUPDRIVE registration interface. At the top, there is a navigation bar with links for Register, Log In, and Home. The main content area features a registration form with the following fields: Username, Password, and Input again. Below these fields are two buttons: a green 'Submit' button and a red 'Cancel' button. The background image shows a person's hands typing on a laptop keyboard. Below the form, there is a tagline 'One safe place for all your files.' and a row of icons representing various operating systems and devices, including Windows, macOS, Linux, and Android.

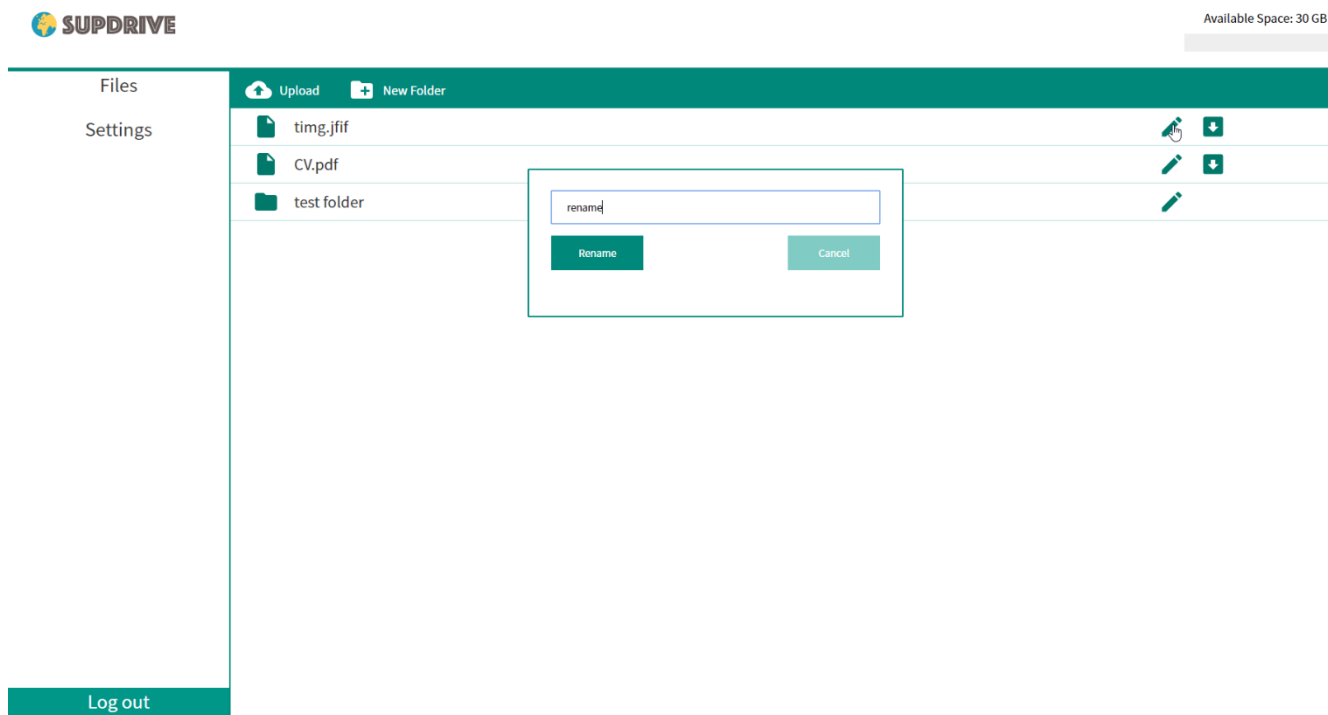
- iv. *Open the website;*
- v. *Click the register button;*
- vi. *Fill your information;*
- vii. *Click finish.*

2.1.3 Files Page



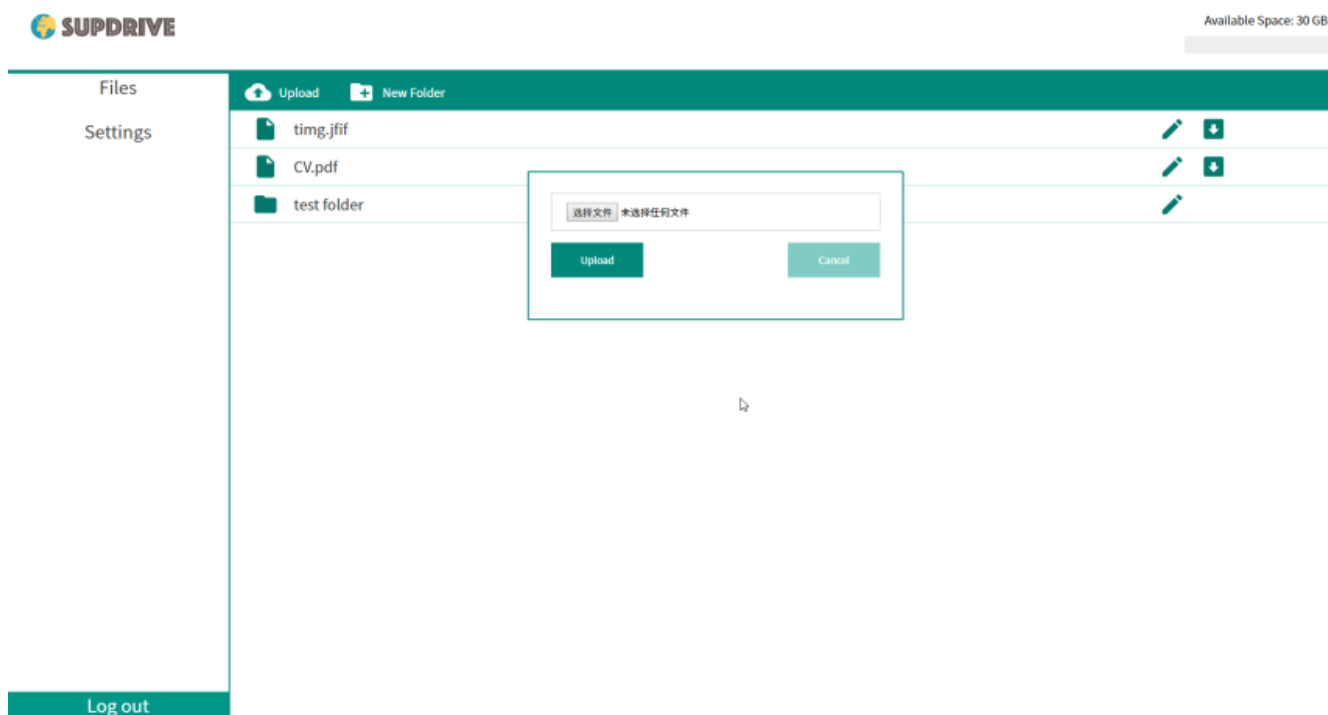
- i. *In this page user can check all the files stored in the SUPFile;*

2.1.4 Rename



- i. In the files page click the Rename Button
- ii. Input the new name
- iii. Click rename button

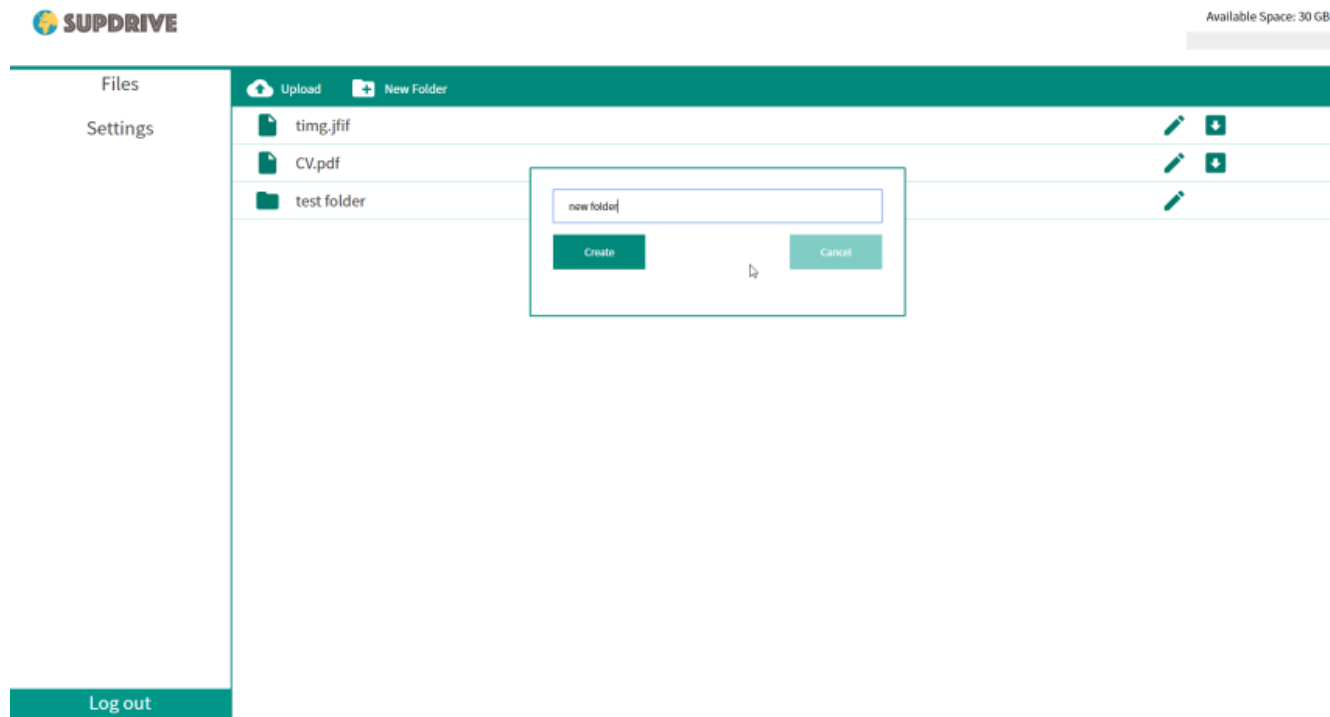
2.1.5 Upload



- i. In the files page click the Upload Button

- ii. Click the choose a file button
- iii. Choose a file to upload
- iv. Click upload button

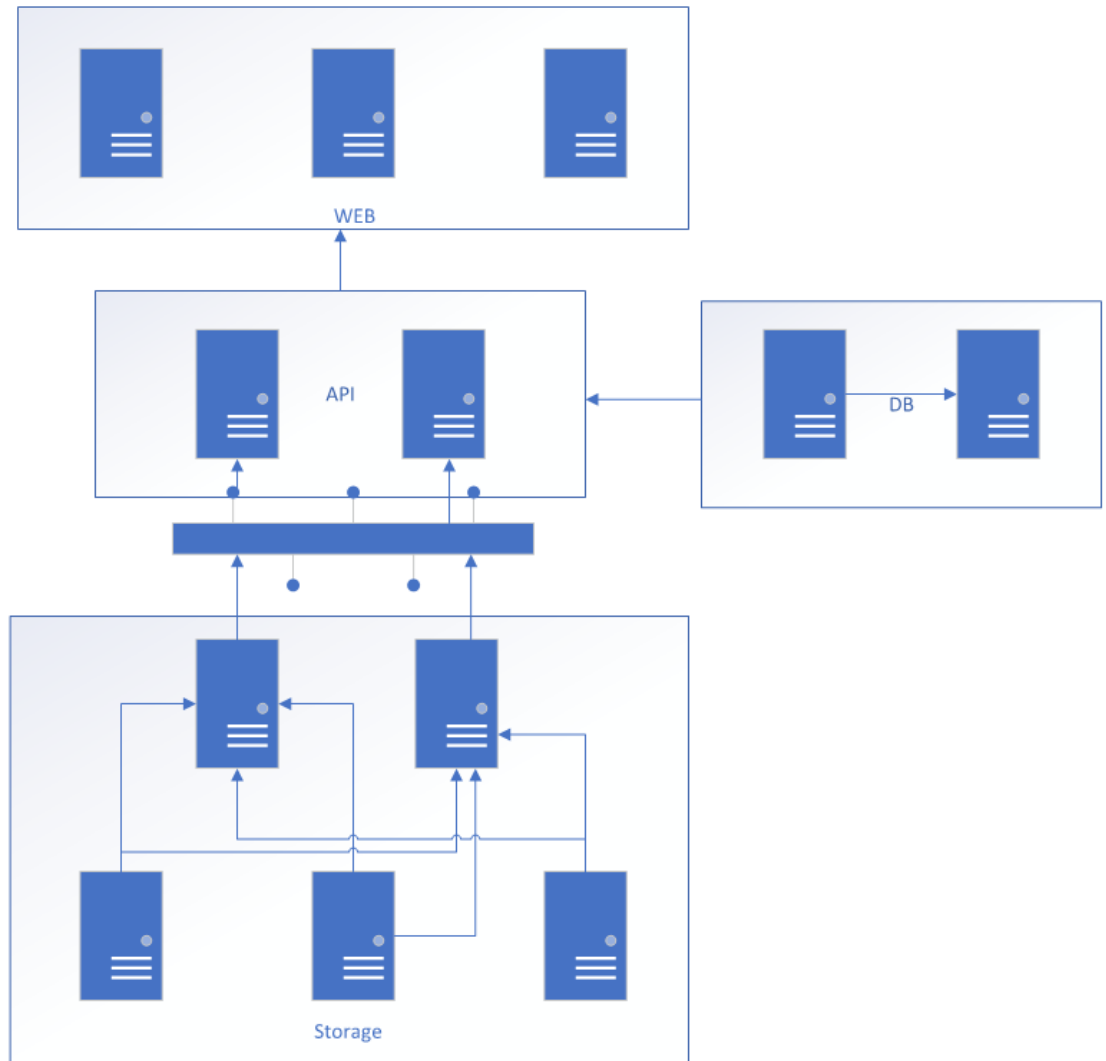
2.1.6 Create a new folder



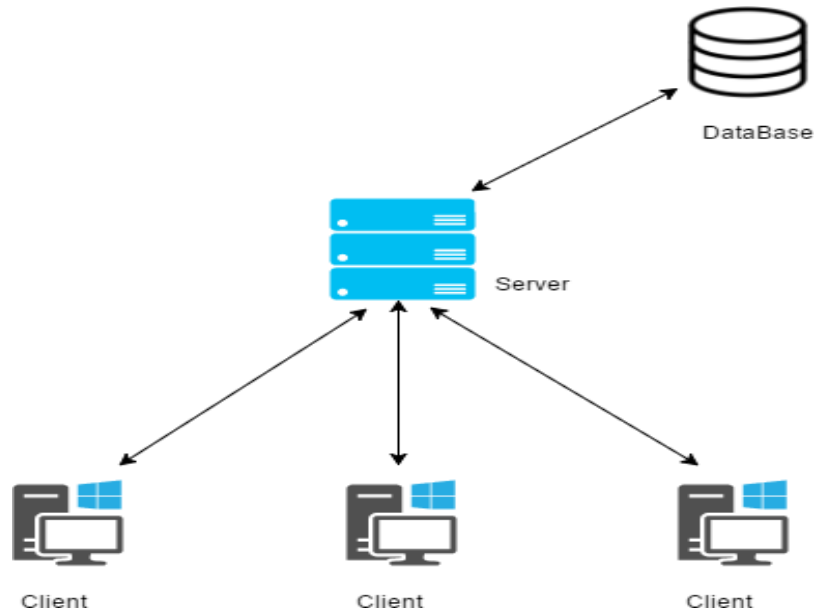
- i. In the files page click the Create a new Folder Button
 - ii. Input the folder name
 - iii. Click Create button

3 DESIGN PATTERNS

3.1 OVERALL SYSTEMARCHITECTURE



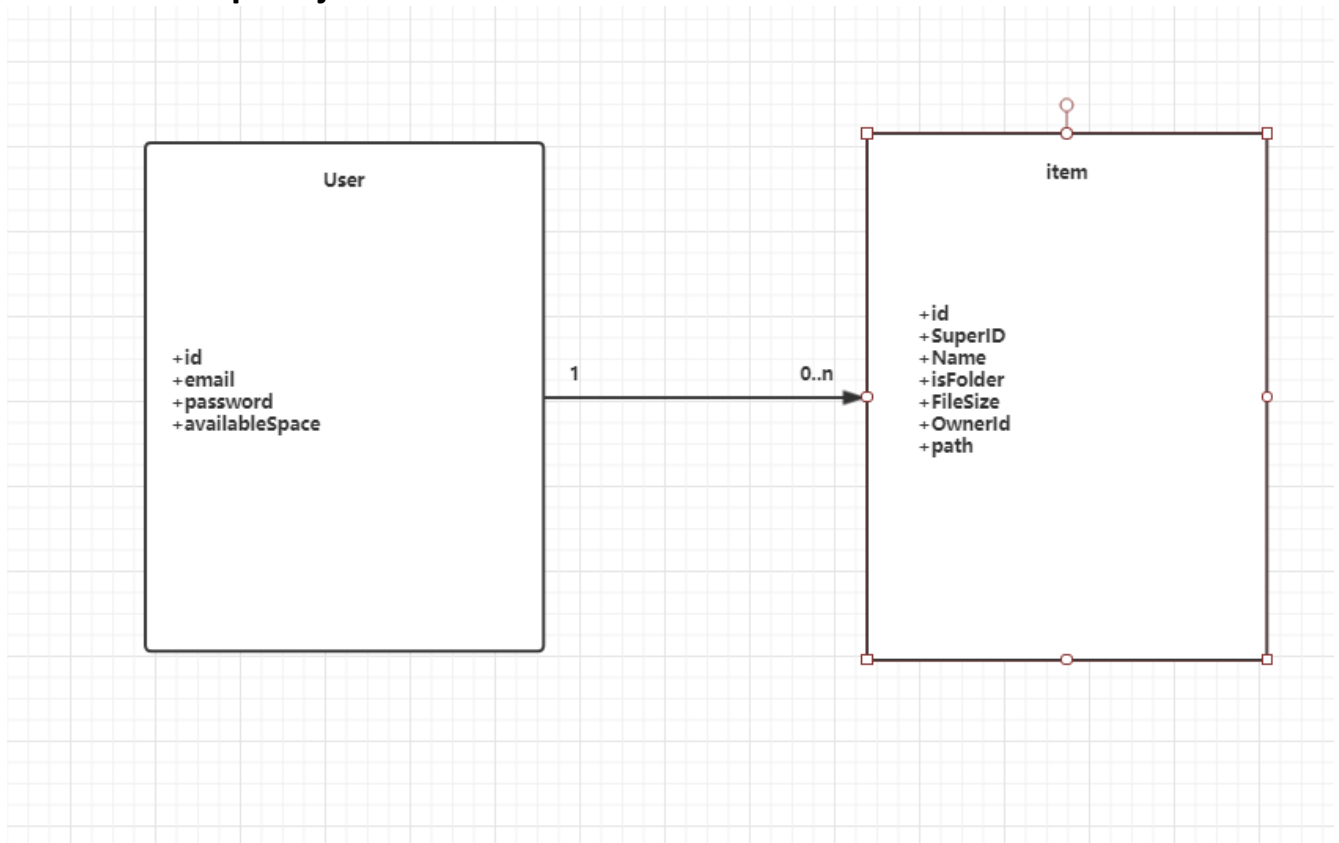
3.2 ARCHITECTURE:



On the client devices, user can use SUPFiles. The server will deal with all the requests users send. And all the information about users will be stored on the database

4 DATABASE STRUCTURE AND OPTIMIZATION

SUPFILE Group Project Web API Database UML



Here are the details of the database:

User Table:

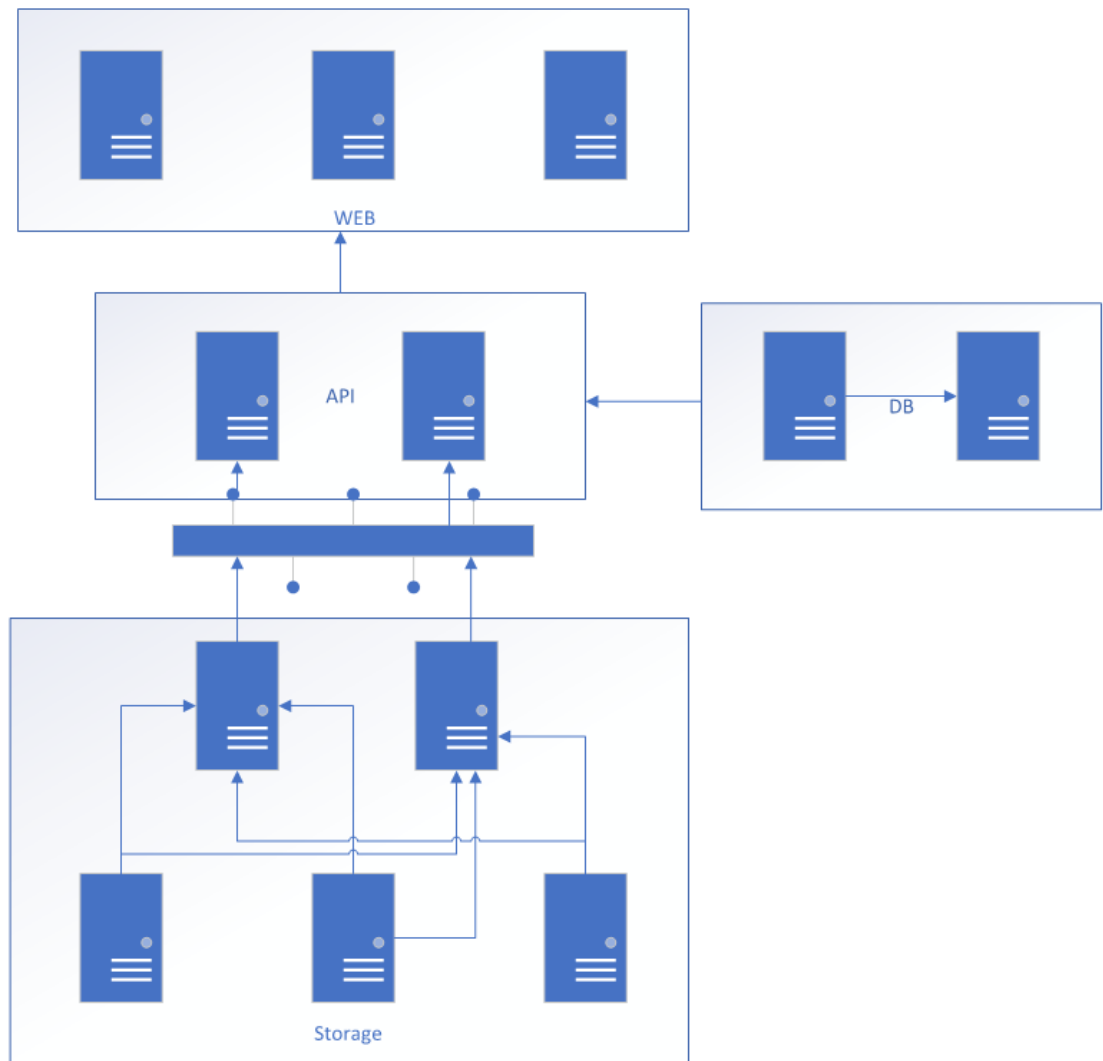
Parameter	Type	Width	Null
id	Integer	8	No
Email	String	40	Yes
Password	String	100	Yes
available Space	Long	20	No

File Table

Parameter	Type	Width	Null
-----------	------	-------	------

Id	Integer	8	No
SuperID	Long	50	No
Name	String	100	No
isFolder	boolean	20	No
FileSize	Long	20	No
OwnerId	Long	20	No
Path	String	-	No

5 SYSTEM



6 WEB API

1. Login

- a) Request url : `api.supfile.io/WebApi/rest/user/login`
- b) Request method : POST
- c) Request attribute : String username , String password

2. Display all folders and files of the connected account

- a) Request url : `api.supfile.io/WebApi/rest/file/get_items`
- b) Request method : GET

- c) Request attribute : Long superId , Long ownerId
- 3. Send a file
 - a) Request url : api.supfile.io/WebApi/rest/file/upload
 - b) Request method : POST
 - c) Request attribute : Long superId , Long ownerId, file file, boolean isFolder
- 4. Create a folder
 - a) Request url : api.supfile.io/WebApi/rest/file/folder
 - b) Request method : POST
 - c) Request attribute : Long superId , Long ownerId, String folderName
- 5. Download a file
 - a) Description: Zip a file and download it
 - b) Request url : api.supfile.io/WebApi/rest/file/download/{id}
 - c) Request method : GET
 - d) Request attribute : Long id
- 6. Rename a folder or a file
 - a) Request url : api.supfile.io/WebApi/rest/file/rename
 - b) Request method : POST
 - c) Request attribute : Long itemId, Long ownerId, Long superId, String newFileName

7 STORAGE AND BACKUP

Tools: iSCSI, Crontab, MySQLdump

User files are stored via iSCSI on a RAID 1 and RAID0 network disk.

User files backup is scheduled on 2 a.m. every day.

Database server backup is scheduled on 2 a.m. everyday

