

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)



Report

on

Internship

An internship report submitted in partial fulfilment of the requirement of the degree of

BACHELOR OF TECHNOLOGY

in

INFORMATION TECHNOLOGY

Submitted By:

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0901IT181022

Internship – 160801

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Submitted to:

DEPARTMENT OF INFORMATION TECHNOLOGY

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE

GWALIOR – 474005

MAY-JUNE 2022

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

CERTIFICATE

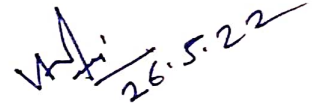
This is certified **Devansh Sharma (0901IT181022)** has submitted the internship report under the mentorship of institute mentor **Prof. Abhilash Sonkar** and industry mentor **Mr. Nikhil Ram**, in partial fulfillment of the requirement for the award of degree of Bachelor of Technology in **Information Technology** from Madhav Institute of Technology and Science, Gwalior.



Prof. Abhilash Sonkar

Assistant Professor

Information Technology



Dr. Akhilesh Tiwari

Professor and Head,

Department of IT



Mr. Nikhil Ram

Industry Mentor

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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DECLARATION

I hereby declare that the work being presented in this internship report, for the partial fulfilment of requirement for the award of the degree of Bachelor of Technology in Information Technology at Madhav Institute of Technology & Science, Gwalior is an authenticated and original record of my work under the mentorship of institute mentor Prof. Abhilash Sonker, Assistant Professor (Dept. of Information Technology) and industry mentor Mr. Nikhil Ram

I declare that I have not submitted the matter embodied in this report for the award of any degree or diploma anywhere else.

Date: 26/05/2022

Place: Gwalior



Devansh Sharma

0901IT181022

IV Year,

Information Technology

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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ACKNOWLEDGEMENT

The full semester internship has proved to be pivotal to my career. I am thankful to my institute, **Madhav Institute of Technology and Science** to allow me to continue my disciplinary/interdisciplinary internship as a curriculum requirement, under the provisions of the Flexible Curriculum Scheme (based on the AICTE Model Curriculum 2018), approved by the Academic Council of the institute. I extend my gratitude to the Director of the institute, **Dr. R. K. Pandit** and Dean Academics, **Dr. Manjaree Pandit** for this.

I would sincerely like to thank my department, **Department of Information Technology**, for allowing me to explore this internship. I humbly thank **Dr. Akhilesh Tiwari**, Professor and Head, Department of Information Technology, for his continued support during the course of this engagement, which eased the process and formalities involved.

I am sincerely thankful to my faculty mentors. I am grateful to the guidance of **Prof. Abhilash Sonker**, Assistant Professor, Information Technology, for his continued support and guidance throughout the project. I am also very thankful to the faculty and staff of the department.



Devansh Sharma

0901IT181022

IV Year, Information Technology

Abstract

This internship report is all about the work I have done as an intern in my company named kloudspot. This report describes my experiences and learning which I have done during my internship. This internship was all over a good experience. As the growing world requires engineers with good quality and intellect. For becoming a good IT-engineer you definitely need to do practical work which will ultimately help you to build your portfolio strong. This is how you develop. Thus, this internship experience was all over a good experience for me. I have learned many new things. This report contains all the details of Technology I used, my training details, my project details, my FPR reports as well as my final internship certificate.

I hope that this internship experience will help me to grow my career in the future, it will help me to develop my portfolio strong. I am very grateful for College and for mentors for their continuous guidance.

सार

यह इंटरशिप रिपोर्ट उन सभी कार्यों के बारे में है जो मैंने क्लॉडस्पॉट नाम की अपनी कंपनी में एक प्रशिक्षु के रूप में किए हैं। यह रिपोर्ट मेरे अनुभव और सीखने का वर्णन करती है जो मैंने अपनी इंटरशिप के दौरान किया है। यह इंटरशिप एक अच्छा अनुभव रहा। जैसे-जैसे बढ़ती दुनिया को अच्छी गुणवत्ता और बुद्धि वाले इंजीनियरों की आवश्यकता होती है। एक अच्छा आईटी-इंजीनियर बनने के लिए आपको निश्चित रूप से व्यावहारिक कार्य करने की आवश्यकता है जो अंततः आपके पोर्टफोलियो को मजबूत बनाने में आपकी मदद करेगा। इस तरह आपका विकास होता है। इस प्रकार, यह इंटरशिप अनुभव मेरे लिए एक अच्छा अनुभव था। मैंने कई नई चीजें सीखी हैं। इस रिपोर्ट में मेरे द्वारा उपयोग की जाने वाली तकनीक, मेरे प्रशिक्षण विवरण, मेरे प्रोजेक्ट विवरण, मेरी एफपीआर रिपोर्ट के साथ-साथ मेरे अंतिम इंटरशिप प्रमाणपत्र के सभी विवरण शामिल हैं।

मुझे उम्मीद है कि यह इंटरशिप अनुभव मुझे भविष्य में अपने करियर को आगे बढ़ाने में मदद करेगा, इससे मुझे अपने पोर्टफोलियो को मजबूत बनाने में मदद मिलेगी। मैं कॉलेज के लिए और उनके निरंतर मार्गदर्शन के लिए आकाओं के लिए बहुत आभारी हूँ।

TABLE OF CONTENTS

1.	<u>Introduction</u>	
1.1	Company Profile	6
1.2	Company's works	7
1.3	Objectives of Proposed Work & My role	7
2.	<u>Technical Description</u>	
2.1	System Analysis & Requirements	8
2.2	Software Requirements	8
2.3	Technology Used	9
3.	<u>Internship Timeline</u>	12
4.	<u>Training</u>	13
4.1	Self-pace training	
4.2	Backend Training & Assignments	
4.3	Frontend training & Assignments	
5.	<u>Project</u>	14
5.1	Problem Statement & Requirements	
5.2	Development & Work Flow	
5.3	Code Screenshots	
6.	<u>Conclusion</u>	25
7.	<u>Bibliography</u>	25
8.	<u>FPR Reports</u>	26
9.	<u>Internship Certificate</u>	33

1. Introduction

1.1 Company Profile:

Company name: Kloudspot - KSPOTFI SYSTEMS INDIA PRIVATE LIMITED.



Kloudspot is a product-based startup founded in 2016. The specialities of my company includes, Machine Learning, Artificial Intelligence, IoT, Industrial IOT, Business Automation, Smart Connectivity Solutions, Cognitive Solutions, Location based awareness, Location based analytics, hybrid work and future of work.

We are the future of work. Every location, at every moment, yields an opportunity. We are how and where brands take advantage of these opportunities with their teams and their customers. Hybrid work experiences are much more than just combining physical location options with remote collaboration tools. Employees need spaces to think, collaborate and create. Brands need spaces to engage audiences, meet customers and transact business. In the future of work, the ideal space for all will be fluid: physical, digital, or an immersive virtual blend of both. Using sophisticated IoT data management, machine learning, and AI, we understand the intersection of space, time, and action so that businesses can anticipate and deliver inspiring spaces for employees and customers anytime, anywhere. Today, our customers use our Kloudspot hybrid work management solutions to successfully enable connected in-person and virtual on-and-off premise work while helping to assure health and safety as their offices have re-opened.

1.2 Company's Works:

The purpose of this company is to:

- **Book a Seat:** Adapt your workplace for flexible, safe, and efficient hot-desking space management. Employees book their space in advance, based on Workplace Services plans for safety, availability, and optimal site/team configuration.
- **Book a Meeting room:** In-person or remote, meetings still need to happen in one space. Remote or on-campus employees can book conference rooms with the assets they need (whiteboard, display screens) and check-in to a physical or virtual seat in the room.
- **Health Screening:** All employees, visitors, and contractors can declare their health status as required, using the corporate-branded Kloudspot hybrid work portal regardless of where they log in.
- **Safe site access for all:** Streamline campus access for employees, contract staff, planned and unplanned guests through an intuitive and corporate portal. Provide contactless registration and automated entry solution using e-pass and QR codes for verified seamless access.
- **Safe wayfinding and smart alerts:** Maps and preprogrammed wayfinding capability make getting around the office-friendly, safe and efficient. Narrowcast real-time notifications and proactively display critical information direct to screens using location-based analytics.

1.3 Objectives of Proposed Work & my role:

I was employed to kloudspot through college campus placement recruitment. I got a Internship plus PPO opportunity at kloudspot. The internship period is of 5 months starting from 1st feb 2022. I worked as a SDE (Full Stack intern). While internship we have trained by very well experienced trainers and worked on company's real time projects.

The main project assigned to me was "Kloud Infinity" which is basically a cloud-based data storage. I am working on this project along with my team members. We have almost applied all the basic functionalities of the project.

After completion of internship, I will work as a full-time employee and will continue the work on company's real time projects.

2. Technical Description

2.1 System Analysis & Requirements:

The selection of hardware is very important in the existence and proper working of any software. When selecting hardware, the size and requirements are also important.

- Processor – Intel CORE i5 8th Gen
- RAM – 8.0 GB
- Hard Disk Drive – 1 TB

2.2 Software Requirements:

- Linux Ubuntu
- Java
- Java IDE (Eclipse/Intellij)
- Spring Framework
- Mongo DB
- NodeJS & NPM
- Angular JS
- VS Code
- Amazon AWS
- Bitbucket

2.3 Technology Used:

- **JAVA:** Java is a programming language and a platform. Java is a high level, robust, object-oriented and secure programming language.

Java was developed by *Sun Microsystems* (which is now the subsidiary of Oracle) in the year 1995. *James Gosling* is known as the father of Java. Before Java, its name was *Oak*. Since Oak was already a registered company, so James Gosling and his team changed the name from Oak to Java.

Platform: Any hardware or software environment in which a program runs, is known as a platform. Since Java has a runtime environment (JRE) and API, it is called a platform.

Application: According to Sun, 3 billion devices run Java. There are many devices where Java is currently used. Some of them are as follows:

1. Desktop Applications such as acrobat reader, media player, antivirus, etc.
 2. Web Applications such as irctc.co.in, javatpoint.com, etc.
 3. Enterprise Applications such as banking applications.
 4. Mobile
 5. Embedded System
 6. Smart Card
 7. Robotics
 8. Games, etc.
- **Linux:** Just like Windows, iOS, and Mac OS, Linux is an operating system. In fact, one of the most popular platforms on the planet, Android, is powered by the Linux operating system. An operating system is software that manages all of the hardware resources associated with your desktop or laptop. To put it simply, the operating system manages the communication between your software and your hardware. Without the operating system (OS), the software wouldn't function.

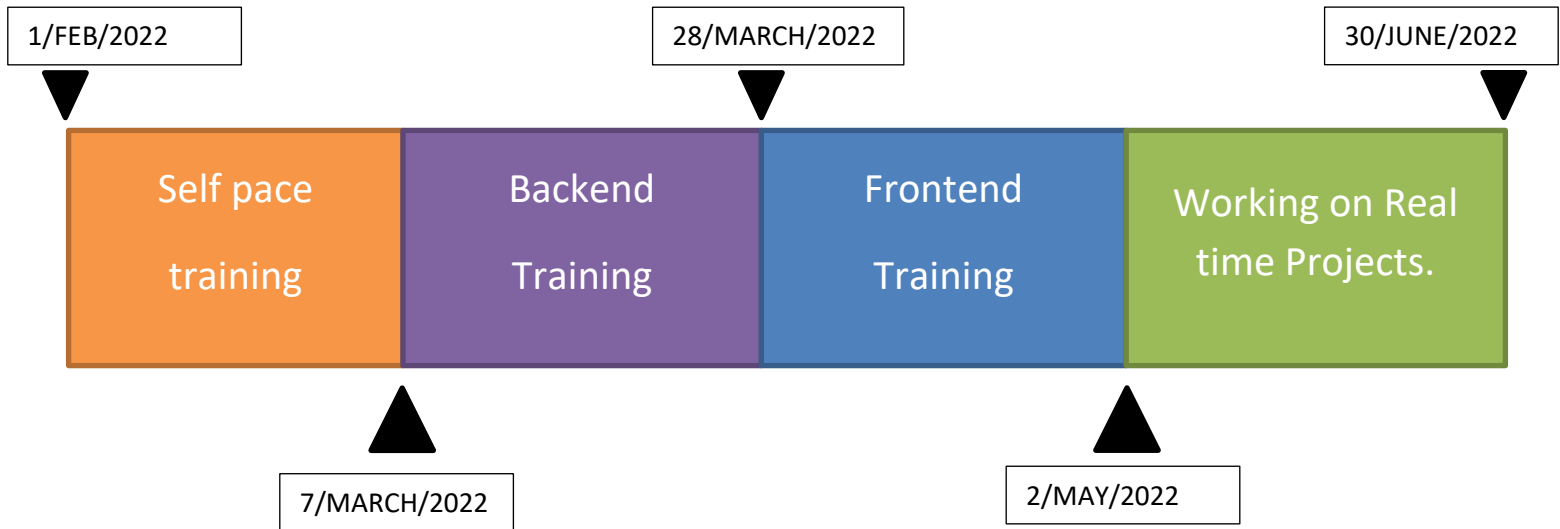
- **GIT**: Git is a mature, actively maintained open-source project originally developed in 2005 by Linus Torvalds, the famous creator of the Linux operating system kernel. A staggering number of software projects rely on Git for version control, including commercial projects as well as open source. We use git for our project management and collaboration. We are using bitbucket as our git client.
- **Spring Framework**: Spring is a *lightweight* framework. It can be thought of as a *framework of frameworks* because it provides support to various frameworks such as Struts, Hibernate, Tapestry, EJB, JSF, etc. The framework, in broader sense, can be defined as a structure where we find solution of the various technical problems.

The Spring framework comprises several modules such as IOC, AOP, DAO, Context, ORM, WEB MVC etc. We will learn these modules in next page. Let's understand the IOC and Dependency Injection first.

- **Spring Boot**: Spring Boot is an open-source Java-based framework used to create a micro-Service. It is developed by Pivotal Team and is used to build stand-alone and production ready spring applications. The main motive of using spring boot is for the backend development, REST-API creation and Database Management.
- **MongoDB**: **MongoDB** is an open-source document database and leading NoSQL database. MongoDB is a source-available cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with optional schemas. MongoDB is developed by MongoDB Inc. and licensed under the Server-Side Public License.
- **HTML** - The Hyper Text Markup Language or HTML is the standard markup language used for creating structure of webpage. HTML consists of a series of elements. HTML elements tell the browser how to display the content. HTML element label pieces of content such as “heading”, “paragraph”, “image”, “table” etc.
- **CSS** - Cascading Style Sheets (CSS) is a simple mechanism for adding style (e.g., fonts, colors, spacing) to Web documents.

- **JavaScript** - **JavaScript (JS)** is a lightweight, interpreted, or just-in-time compiled programming language with first-class functions. While it is most well-known as the scripting language for Web pages, many non-browser environments also use it, such as Node.js, Apache CouchDB and Adobe Acrobat. JavaScript is a prototype-based, multi-paradigm, single-threaded, dynamic language, supporting object-oriented, imperative, and declarative (e.g. functional programming) styles. Read more about JavaScript.
- **TypeScript** - TypeScript is a superset of JavaScript that compiles to clean JavaScript output. TypeScript is a language for application-scale JavaScript. TypeScript adds optional types to JavaScript that support tools for large-scale JavaScript applications for any browser, for any host, on any OS. TypeScript compiles to readable, standards-based JavaScript. It is designed for the development of large applications and transpiles to JavaScript.
- **Angular JS** **AngularJS** is a very powerful JavaScript Framework. It is used in Single Page Application (SPA) projects. It extends HTML DOM with additional attributes and makes it more responsive to user actions. AngularJS is open source, completely free, and used by thousands of developers around the world. It is licensed under the Apache license version 2.0.
- **RxJS** - Reactive Extensions for JavaScript, or RxJS, is **a reactive library used to implement reactive programming to deal with async implementation, callbacks, and event-based programs**. It can be used in your browser or with Node. js. RxJS observables allow you to publish events.

3. Internship Timeline



The internship duration is for 5 months

4. Training

4.1 Self pace training:

Training (1 FEB 2022 – 7 MARCH 2022)

- I joined kloudspot as a intern on 1st feb 2022 remotely. From 1st feb our self pace training was started. We were assigned JAVA udey courses which we have to complete it and submit the assignments.
- Along with that we were assigned video lectures of using Git and Linux.
- I successfully completed the JAVA Udey course and submitted its all assignments and earned the certificate of completion from UDEMY.
- The link for all of my Udey assignments can be found here.

<https://bitbucket.org/devanshsharma/udemyassignments/src/master/>

4.2 Backend Training:

(7/March/2022 – 28/March/2022)

Topics Covered Were

- Maven, JDBC
- Spring boot – Spring IOC, Autowiring, Scope and reading from application. properties, Introduction to Spring Boot, Spring Core with boot, Spring MVC, Spring Rest-API, Integrating Rest-API with mongoDB, Exception handling
- Spring Security using JWT
- MongoDB

<https://bitbucket.org/devanshsharma/backendtraining/src/master/>

4.3 Frontend Training:

(28/March/2022 – 12/April/2022)

- Learned HTML, CSS and JS
- Learned Typescript
- Learned AngularJS
- Learned Advanced JavaScript
- Learned RxJS

5. Project

5.1 Problem Statement & Requirements

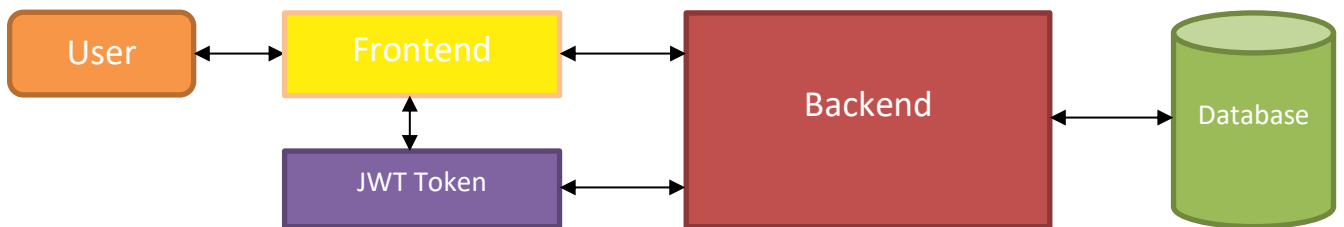
To develop a cloud-based data storage application which have the following applications in it:

- **Cloud-based storage:** It is a digital storage solution which utilizes multiple servers to store data in logical pools.
- **Security:** To protect your data integrity.
- **Collaboration:** Share your data to your connections.
- **Sync & Backup:** Data security, if you lose your data.

5.2 Development & Work Flow:

Authentication & Authorization:

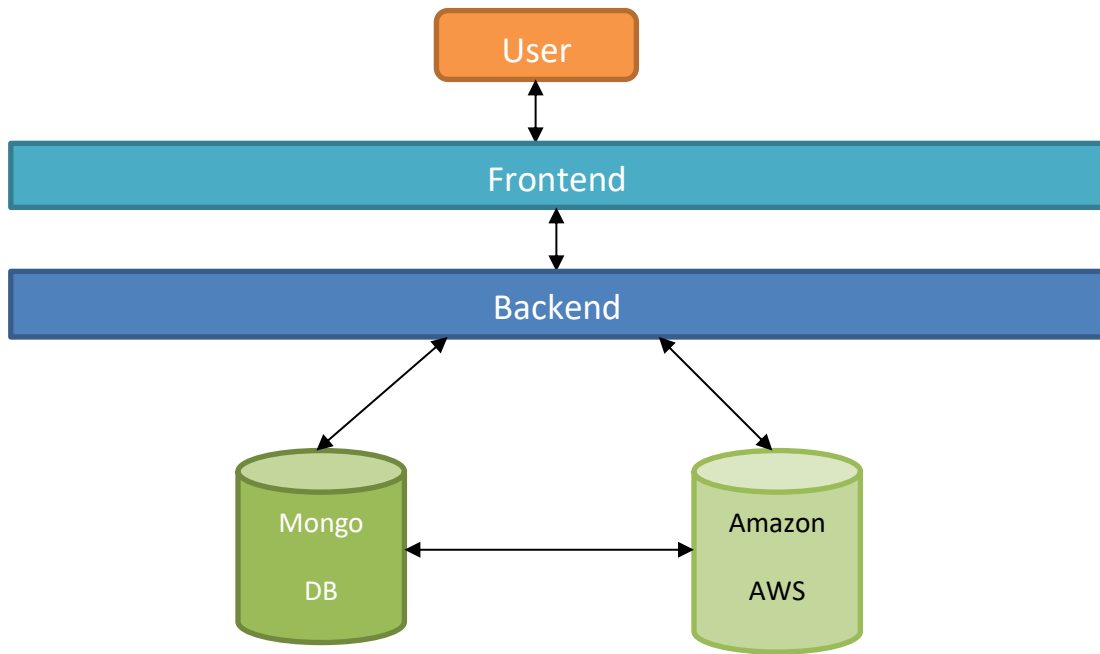
Every web application is well protected with the facility of Authentication and Authorization. It simply means the registration of new user and login of already existing user to take all benefits of the application.



For achieving this we are using spring security in the backend which is fetching the data from database and ultimately creating an Authorization token as JWT token and sending it to the frontend.

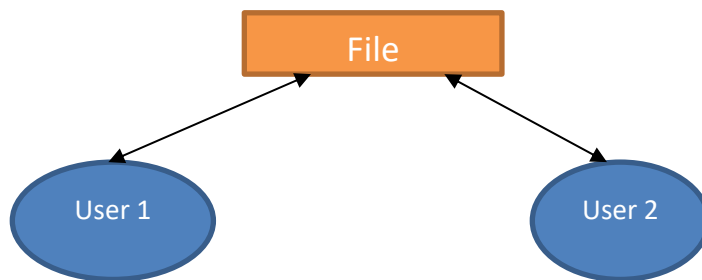
File System Storage Architecture:

For creating a file storage-cloud we are using Amazon AWS which is in constant touch of the database. When any user tries to access the files, we share the file along with its details to the user in BLOB format. The file address is stored in the data base with full security. Any spammer cannot access the file because it requires proper authorization to access any file.



Sharing Architecture:

For sharing of files, we are simply giving user access to particular user to whom any user want to share the file.



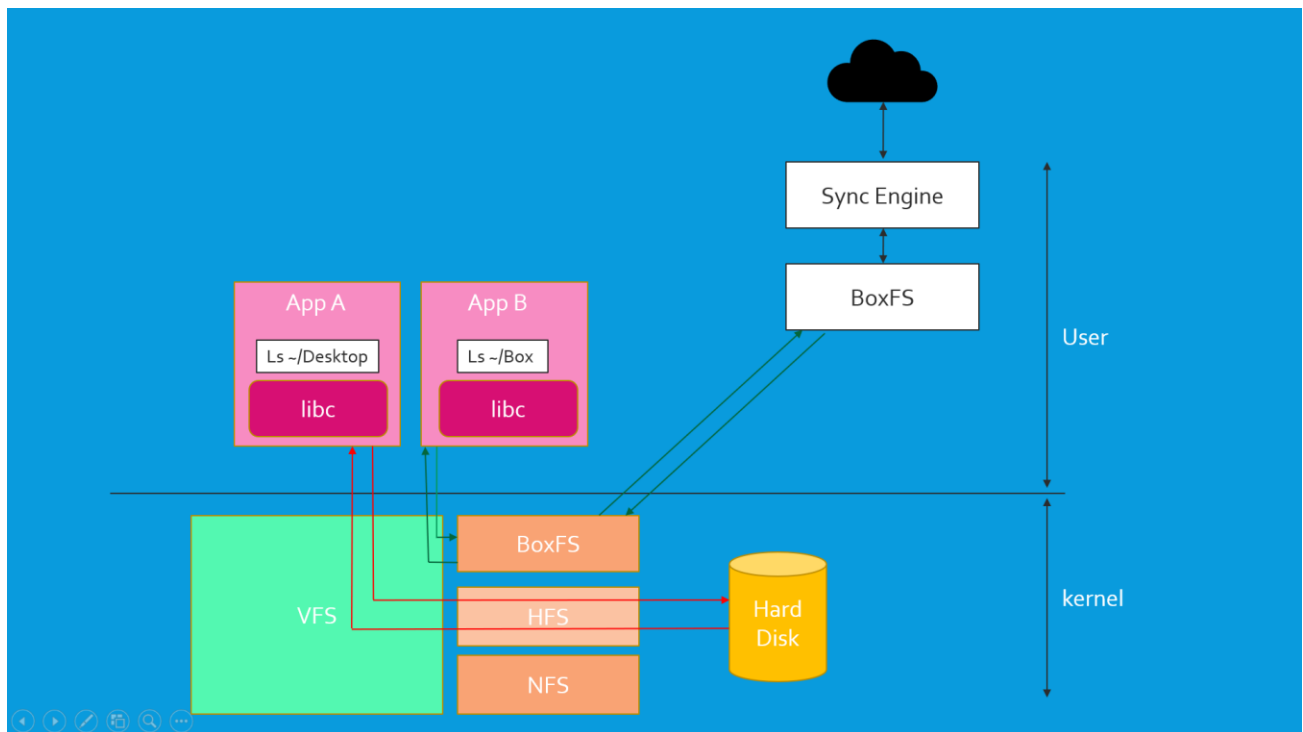
FILE SYNCING

Challenges in Designing a Typical Sync Product:

- detecting local changes
- applying remote changes locally
- Applying remote changes locally is tricky as sync products must have a way to distinguish between changes made by the user and changes made by the sync application itself.

Part – 1 (Developing a file System)

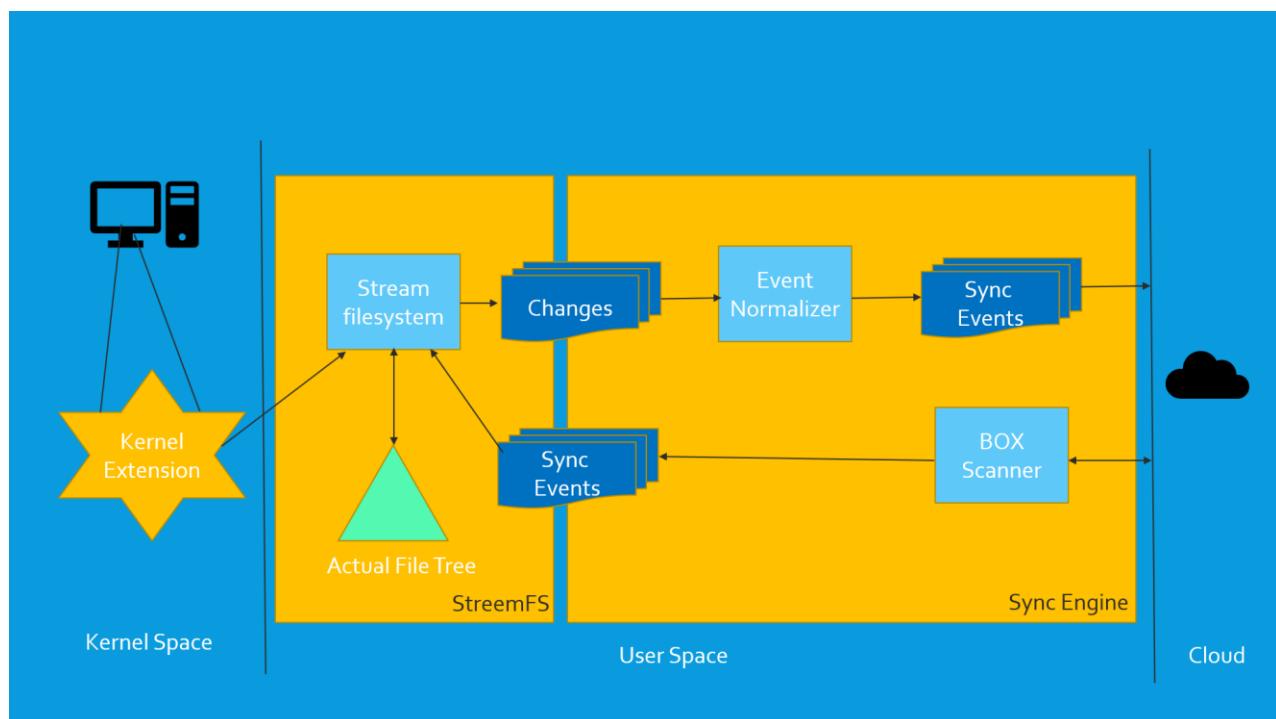
- Designing a file system, the traditional way is hard. Kernel code has less protections and a crash caused by a bug can lead to system crashes or disk corruptions.
- Instead, the Box Drive team chose a solution that breaks the filesystem into two parts
- one that lives in the kernel space and delegates filesystem functions to an application running in the user space, where most normal applications live.
- The kernel component of the filesystem is intended to be simple and extremely stable, while the more complex logic lives in the user-space application which can be used and updated like any normal application.



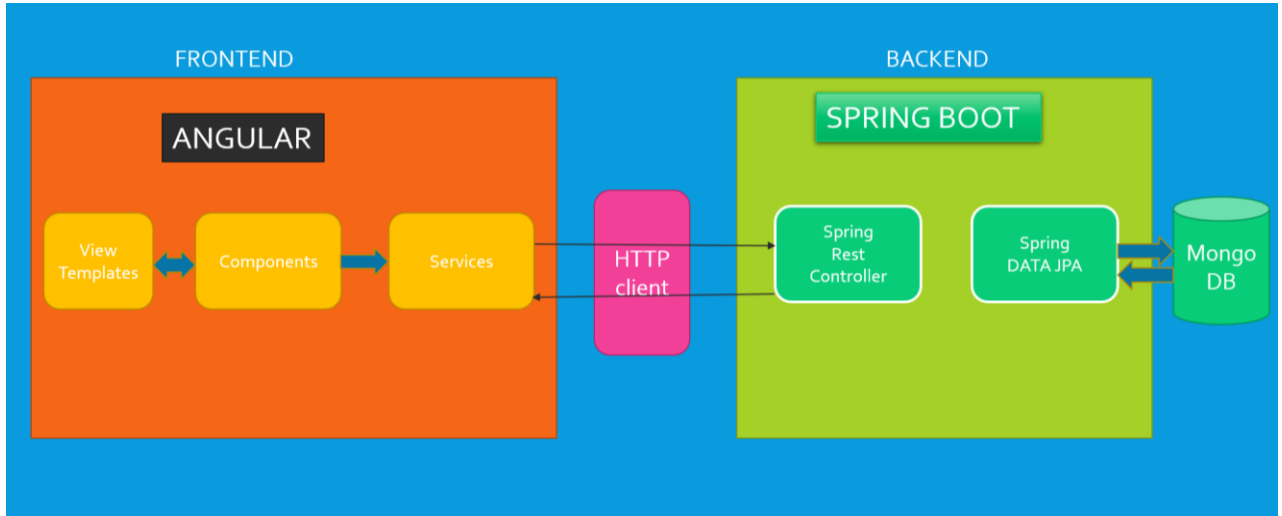
A syncing Engine:

We have reused a lot of the code that was originally written for Box Sync, with few of the crucial modifications as follows:

1. The folder scanning/change detection logic was reworked to accept change events directly from the filesystem.
2. To execute remote changes locally, the Sync Engine now directly communicates with the local filesystem, which:
 - Allows the Sync Engine to distinguish trivially between changes caused by the user and the remote changes applied by the Sync Engine itself.
 - Lets the Sync Engine apply remote changes locally while preventing conflicting local changes.

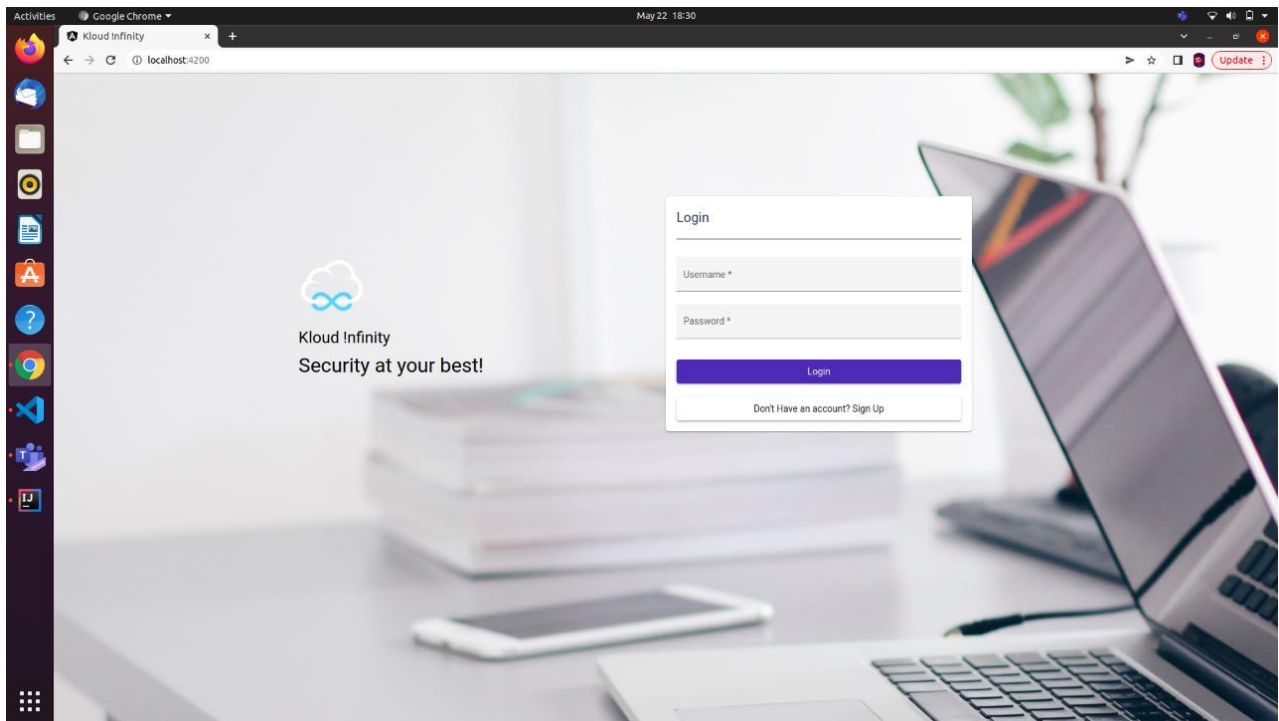


Tech Stack:

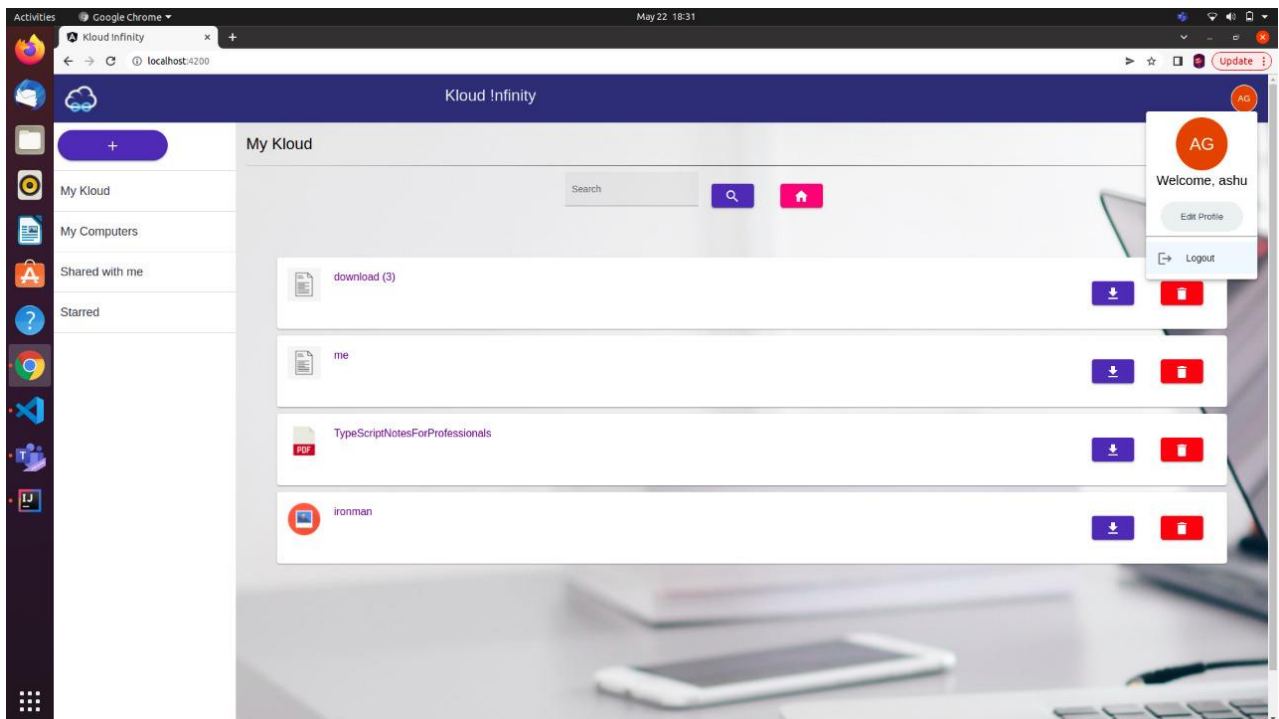


- For storing the data in database, we are using MongoDB which is a kind of NOSQL.
- In the backend architecture we are using Spring Boot for generation of APIs and managing requests and responses. Backend is also used for connectivity with our database.
- For the frontend we are using angular and for better UI experience we are using Material UI.

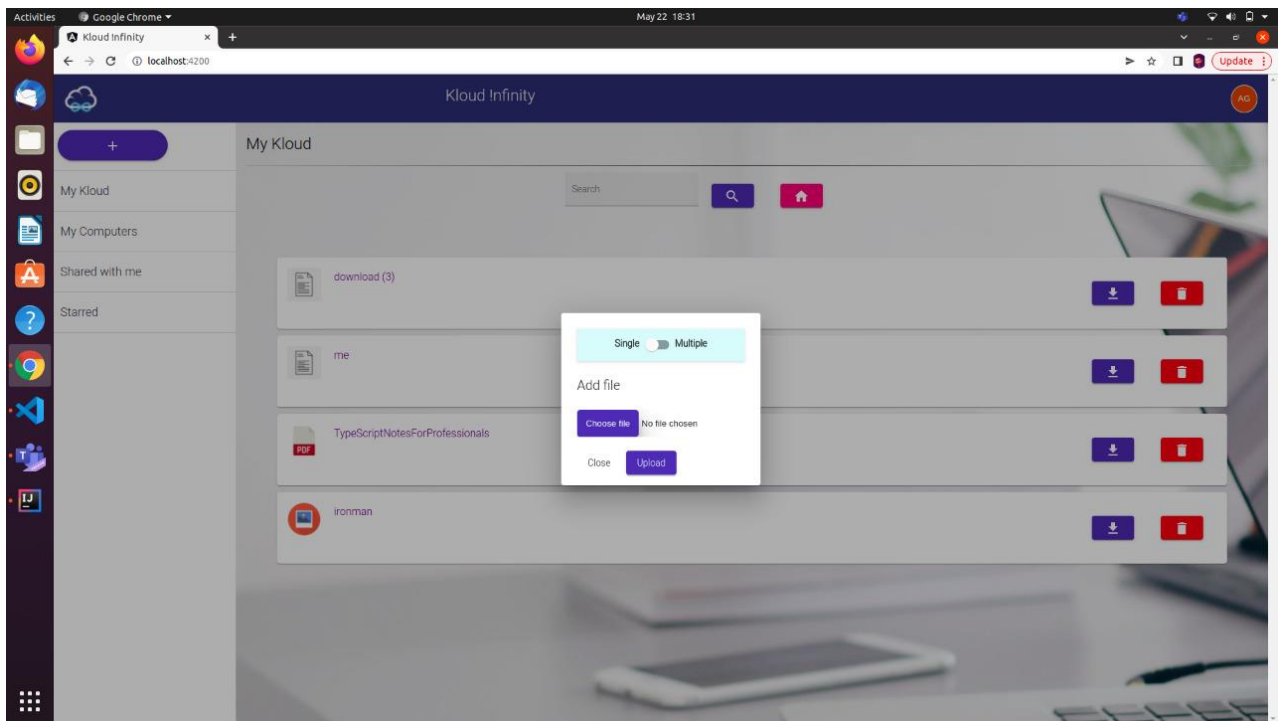
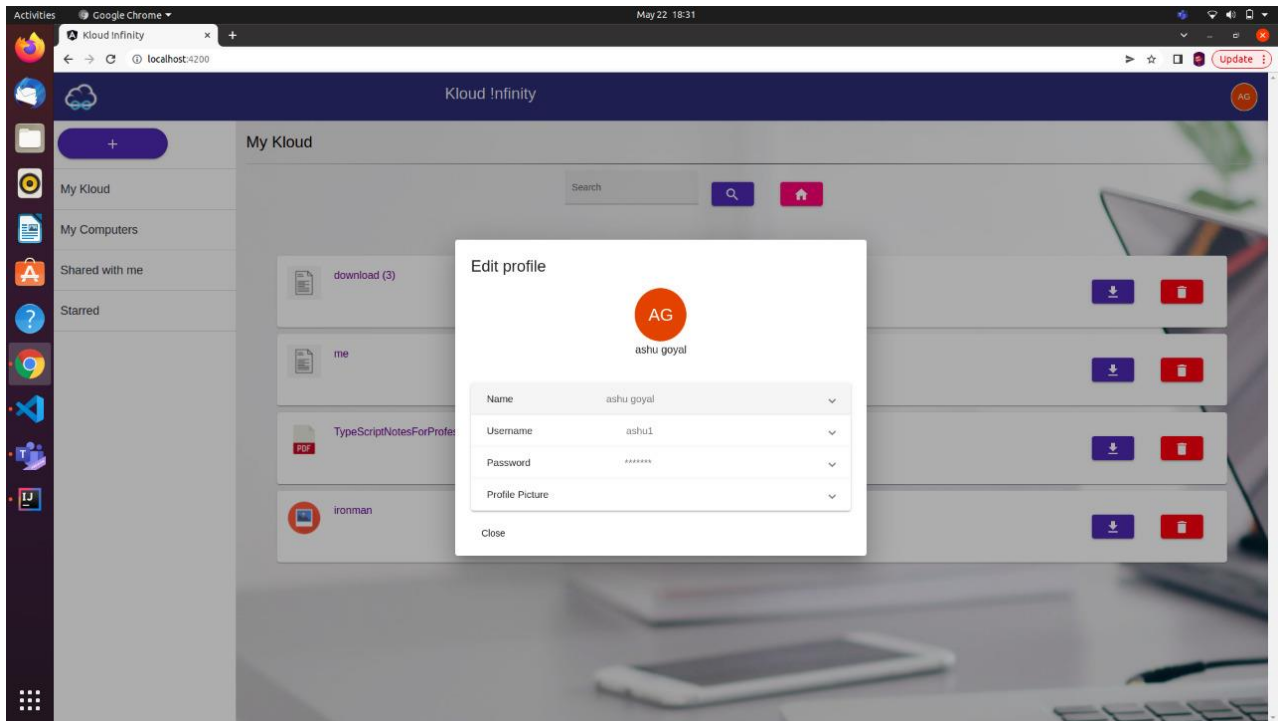
5.3 Screenshots:

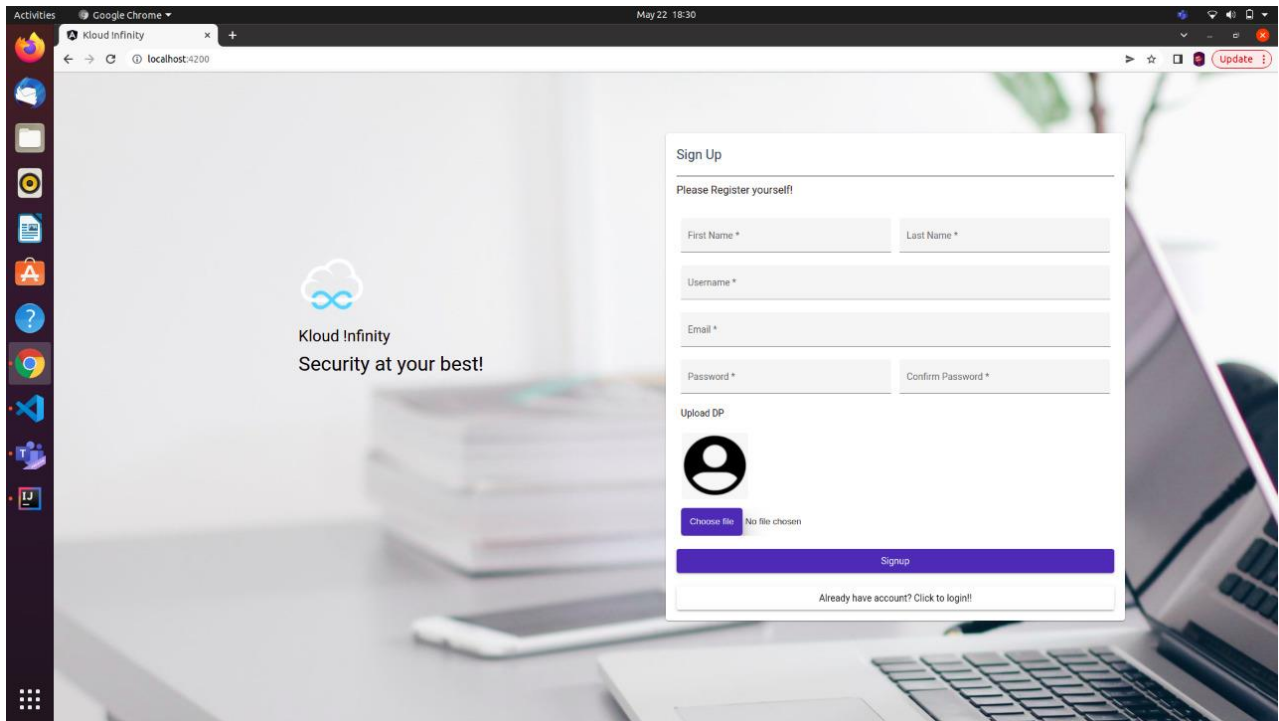
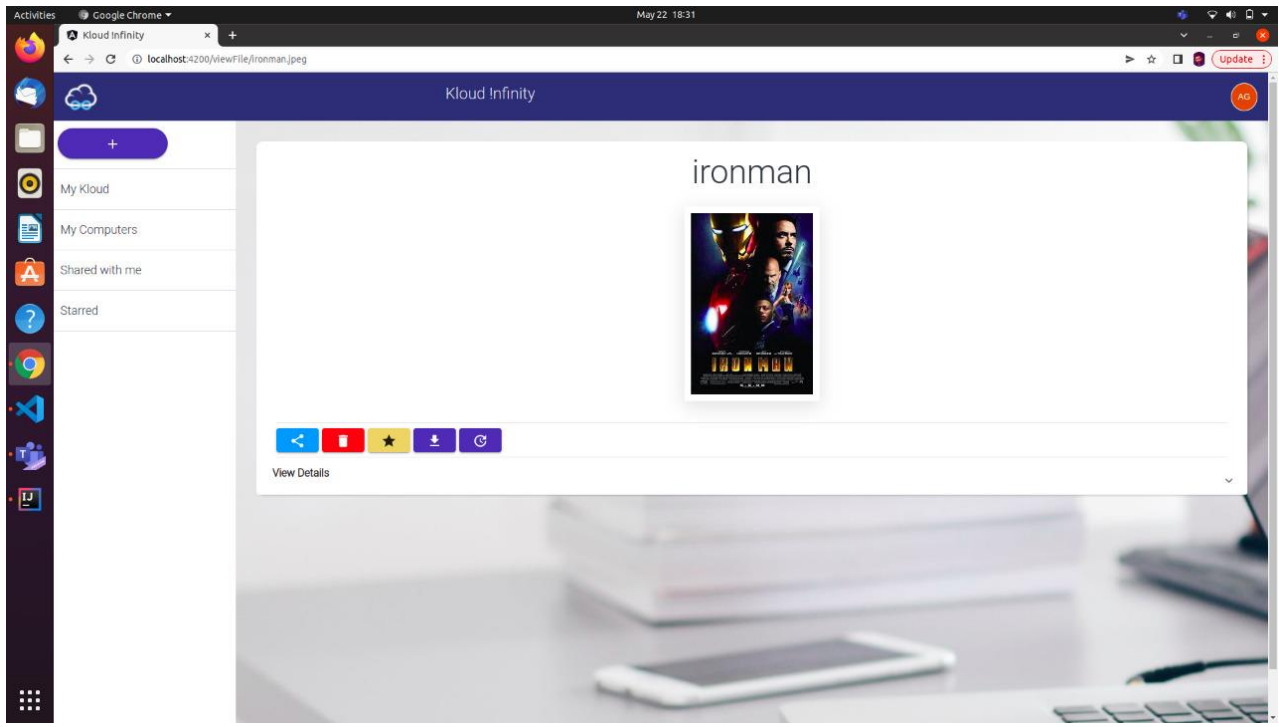


Login Page



Dashboard Page





IntelliJ IDEA Community Edition | May 22 18:32 | Kloud-Infinity - FileServiceImpl.java

```

File Edit View Navigate Code Refactor Build Run Tools Git Window Help
Kloud-Infinity src main java com kloudinfinity service FileServiceImpl
Project
  com.kloudinfinity
    config
    controller
      AuthController.java
      Controller.java
      User.java
    model
      ERole
      FileModel
      Role
      User
    repositories
      Repository
      RoleRepository
      UserRepository
    security
      config
      jwt
      payload
      services
    service
      FileServiceImpl.java
      FileStore
      IFileService
    KloudInfinityApplication
    resources
    test
  .gitignore
  files.list
  Run: KloudInfinityApplication
  FileModel[id=6288dea57c0ab73ee7eaal08, title=ironman.jpeg, fileName=ironman.jpeg, contentType=Image/jpeg, filePath=Kloud-Infinity/ashui, username=ashui, starred=false]
  S3Object[key=ironman.jpeg,bucket=kloud-infinity/ashui]
  All files are up-to-date (3 minutes ago)
  17:14 LF UTF-8 4spaces P master AWS: No credentials selected

```

```

11 @Override
12 public FileModel saveFile(String title, String description, MultipartFile file, String folderName) {
13     if (file.isEmpty())
14         throw new IllegalStateException("Cannot upload empty file");
15     Map<String, String> metadata = new HashMap<>();
16     metadata.put("Content-Type", file.getContentType());
17     metadata.put("Content-Length", String.valueOf(file.getSize()));
18     String path = String.format("%s/%s", BucketName, folderName);
19     String fileName = String.format("%s", file.getOriginalFilename());
20     if (repository.findByFileName(fileName) != null)
21         throw new AmazonS3Exception("File name exist try another name");
22     try {
23         fileStore.upload(path, fileName, Optional.of(metadata), file.getInputStream());
24     } catch (IOException e) {
25         throw new IllegalStateException("Failed to upload file", e);
26     }
27     // path=path+"/"+fileName;
28     FileModel fileModel = FileModel.builder()
29         .fileName(fileName)
30         .title(title)
31         .filePath(path)
32         .contentType(file.getContentType())
33         .username(folderName)
34         .starred(false)
35         .build();
36     repository.save(fileModel);
37     return repository.findByFileName(file.getName());
38 }
39
40 @Override
41 public byte[] downloadFile(String id, String username) {
42     FileModel fileModel = repository.findById(id).orElse(null);
43     System.out.println(fileModel);
44     return fileModel != null ?

```

IntelliJ IDEA Community Edition | May 22 18:32 | Kloud-Infinity - IFileService.java

```

File Edit View Navigate Code Refactor Build Run Tools Git Window Help
Kloud-Infinity src main java com kloudinfinity service IFileService
Project
  com.kloudinfinity
    config
    controller
      AuthController.java
      Controller.java
      User.java
    model
      ERole
      FileModel
      Role
      User
    repositories
      Repository
      RoleRepository
      UserRepository
    security
      config
      jwt
      payload
      services
    service
      FileServiceImpl.java
      FileStore
      IFileService
    KloudInfinityApplication
    resources
    test
  .gitignore
  files.list
  Run: KloudInfinityApplication
  FileModel[id=6288dea57c0ab73ee7eaal08, title=ironman.jpeg, fileName=ironman.jpeg, contentType=Image/jpeg, filePath=Kloud-Infinity/ashui, username=ashui, starred=false]
  S3Object[key=ironman.jpeg,bucket=kloud-infinity/ashui]
  All files are up-to-date (3 minutes ago)
  9:18 LF UTF-8 4spaces P master AWS: No credentials selected

```

```

1 package com.kloudinfinity.service;
2
3 import com.amazonaws.services.s3.model.S3ObjectSummary;
4 import com.kloudinfinity.model.FileModel;
5 import org.springframework.web.multipart.MultipartFile;
6
7 import java.util.List;
8
9 @SuppressWarnings("rawtypes")
10 public interface IFileService {
11     FileModel saveFile(String title, String description, MultipartFile file, String folderName);
12     byte[] downloadFile(String id, String username);
13     List<FileModel> getAllFiles(String username);
14     void deleteFile(String fileName, String username);
15     void createFolder(String folderName);
16     FileModel updateFile(String fileId, MultipartFile file, String folderName);
17     List<S3ObjectSummary> getAll(String username);
18     FileModel search(String fileName, String username);
19     // void markStar(String filePath, String starred);
20     void markStar(String username, String fileName);
21 }

```


6. Conclusion


I successfully completed my 4 months of internship and it was a very wonderful period for me. In this period, I learned a lot about IT industry projects and kind of work they are doing. I was successfully able to learn full stack development and implement it. With the knowledge of full stack development, I created my project on my pace very well. Finally, we hope this will go a long way in popularizing.

7. References & bibliography

- <https://start.spring.io/>
- <https://stackoverflow.com/>
- <https://www.geeksforgeeks.org/>
- <https://stackblitz.com/>
- <https://angularjs.org/>
- <https://nodejs.org/en/>
- Wikipedia

8. FPR Reports

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	DEVANSH SHARMA		Department	ENGG	
Industry/Organization	KLOUDSPOT INC.		Date/Duration	2 nd Feb-15 Feb, 22	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation				✓	
Performance/Quality of work					
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work					
Comment on nature of work done/Area/Topic	He is going through JAVA training. Performance has not yet assessed.				
OVERALL GRADE (Any one)	POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
Name of Industry Mentor	NIKHIL RAM				
Signature of Industry Mentor					


Receiving Date		Name of Faculty Mentor		Sign	
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FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR


Name of student	DEVANSH SHARMA		Department	Engineering (IT)	
Industry/Organization	KLOUDSPOT INC.		Date/Duration	15 th -Feb-2022 to 28/02/22	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	JAVA course completed, Javascript is on progress.				
OVERALL GRADE (Any one)	POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
Name of Industry Mentor	NIKHIL RAM				
Signature of Industry Mentor					

Receiving Date		Name of Faculty Mentor	PROF. ABHILASH SONKER	Sign	
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FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR


Name of student	DEVANSH SHARMA		Department	IT (Engineering)	
Industry/Organization	KLOUDSPOT INC.		Date/Duration	1 st March/15 th March, 2022	
Criterion	<u>Poor</u>	<u>Average</u>	<u>Good</u>	<u>Very Good</u>	<u>Excellent</u>
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge upgradation					✓
Performance/Quality of work					✓
Behaviour /Discipline/Team work				✓	
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	MongoDB, Maven, JDBC is completed, Training on springboot is going on.				
<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
<u>Name of Industry Mentor</u>	NIKHIL RAM				
<u>Signature of Industry Mentor</u>					

Receiving Date		Name of Faculty Mentor	PROF. ABHILASH SONKER	Sign	
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FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

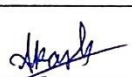
Name of student	DEVANSH SHARMA		Department	IT (Engineering)	
Industry/Organization	KLOUDSPOT INC.		Date/Duration	16/03/2023 - 30/03/2023	
Criterion	<u>Poor</u>	<u>Average</u>	<u>Good</u>	<u>Very Good</u>	<u>Excellent</u>
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge upgradation				✓	
Performance/Quality of work				✓	
Behaviour /Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Spring MVC, Rest API generation, JWT token and Spring security completed. Assignment on Rest - API also completed.				
<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u> ✓				
<u>Name of Industry Mentor</u>	NIKHIL RAM				
<u>Signature of Industry Mentor</u>					

Receiving Date		Name of Mentor	Faculty	Prof. ABHILASH SONKER	Sign	
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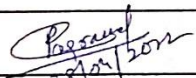
FORMAT

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	DEVANSH SHARMA		Department	Engineering (IT)	
Industry/Organization	KLOUDSPOT INC.		Date/Duration	31/3/2022 - 14/4/22	
Criterion	<u>Poor</u>	<u>Average</u>	<u>Good</u>	<u>Very Good</u>	<u>Excellent</u>
Punctuality/Timely completion of assigned work			✓		
Learning capacity/Knowledge upgradation				✓	
Performance/Quality of work			✓		
Behaviour /Discipline/Team work			✓		
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	Training on angular completed. We have assigned a project to develop a cloud based system				
<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
<u>Name of Industry Mentor</u>	Akash Sareen				
<u>Signature of Industry Mentor</u>					

Receiving Date		Name of Faculty Mentor	Prof. Abhilash Sonker	Sign	
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FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR


Name of student	Dewansh Sharma		Department	Engineering (IT)	
Industry/Organization	KLOUDSPOT INC.		Date/Duration	15/4/22 - 30/4/22	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation			✓		
Performance/Quality of work				✓	
Behaviour/Discipline/Team work			✓		
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	Working on company's project called KLOUD-INFINITY which is a KLOUD-based storage system. Side by side we are still having training on RxJS.				
OVERALL GRADE (Any one)	POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
Name of Industry Mentor	PRIYANSHI AGARWAL				
Signature of Industry Mentor	 28/04/2022				

Receiving Date		Name of Faculty Mentor	ABHILASH SONKER	Sign	
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FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	DEVANSH SHARMA		Department	Engineering (IT)	
Industry/Organization	KLOUDSPOT INC.		Date/Duration	1/5/22-14/5/22	
Criterion	<u>Poor</u>	<u>Average</u>	<u>Good</u>	<u>Very Good</u>	<u>Excellent</u>
Punctuality/Timely completion of assigned work			✓		
Learning capacity/Knowledge upgradation				✓	
Performance/Quality of work				✓	
Behaviour /Discipline/Team work			✓		
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	Working on KLOUD-INFINITY project.				
<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
<u>Name of Industry Mentor</u>	AKASH SAREEN				
<u>Signature of Industry Mentor</u>					

Receiving Date		Name of Mentor	Faculty	Prof. ABHILASH SONKER	Sign	
----------------	--	----------------	---------	-----------------------	------	--

9. Internship Certificate



☎ : +91-8277-111444
✉ : contact@kloudspot.com
🌐 : www.kloudspot.com

Date: May 20th 2022

CERTIFICATE OF INTERNSHIP

This is to certify that **Mr. Devansh Sharma** (ID: 0901IT181022, Madhav Institute of Technology & Science, Gwalior) is engaged as an intern in our organization from Feb, 1st 2022 to Jun, 30th 2022. Post completion of his internship, he will be joining us as Software Engineer, as per our offer letter.

During this period Devansh, has met all expectations of the project and his conduct was found to be satisfactory.

We take this opportunity to thank and wish him well in future.

Sincerely,
For KSPOTFI SYSTEMS INDIA PRIVATE LIMITED,

Deepak Kumar Singhal
Executive Director



KSPOTFI SYSTEMS INDIA PRIVATE LIMITED (A 100% subsidiary of Kloudspot Inc. USA)
Registered Office: FC- 04, 102/1, Founders Cube, Kamadhenu Nagar, B Narayanapura Bangalore KA 560016
CIN: U72900KA2017FTC102518

APPENDIX – Role of mentors

I am very grateful for my institute & industry mentor who helped me throughout my internship period. Whenever I was in any kind of trouble, they were always there to help me. They were in continuous contact with me and helped me to successfully complete my internship.



Prof. Abhilash Sonkar

Assistant Professor

Information Technology



Mr. Nikhil Ram

Industry Mentor



DEVANSH SHARMA
0901IT181022

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