

**A
PROJECT REPORT
ON**

Cloud-based File Storage System

SUBMITTED BY

Vineet Maurya

ACADEMIC YEAR 2024-25

S.Y. B.C.A. SEM-3

UNDER THE GUIDANCE OF

Name of Faculty

Navrachna University

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ABSTRACT

ACKNOWLEDGEMENT

PROJECT PROFILE

Student Information	
Name Vineet Maurya	Enrollment Number 23000068
Project Details	
Project Title	The File Spot - A Cloud based File Storage System
Duration	Insert Duration Here
Name of Project	Insert Project Name Here
Platform	Web
Team Size	1

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SDLC OVERVIEW

REQUIREMENT GATHERING AND ANALYSIS

Organization Details

Meetings

Data which will be Input into the System

Data which will be Output from the System

Type of Project

Method of collecting Data

SYSTEM REQUIREMENT SPECIFICATIONS

Introduction

The Files Spot (henceforth referred to as TFS) is a simple file-storage service. It allows for simple and easy file backup, organization, and sharing.

Many cloud storage solutions are currently available for general use for the public. These are usually either barebones storage services like Amazon S3 aimed at developers to build on top of, or customer-friendly services like Google Drive and Microsoft Onedrive. Unfortunately, services between these two extremes are few and far between. TFS aims to fill this gap in the cloud storage space.

TFS is aimed squarely at power users who want a simple cloud storage service to store and backup their files in. Towards this end, TFS aims to deliver on two fronts - a simple user interface that makes it easy to get started, and a flexible API that allows for easy automation and integration with existing automation tools.

3.1.1 Purpose

3.1.2 Document Conventions

3.1.3 Intended Audience and Reading Suggestions

3.1.4 Project Scope

3.1.5 References

Overall Description

On the user side, The Files Spot (TFS) is a simple web application that can be accessed from any web browser. It will have a UI for uploading new files to the cloud and a UI to manage files that have already been uploaded to the cloud. The UI will be very simple and minimalistic to ensure that it can be easily parsed by tools and other accessibility tools.

On the backend, it will be a simple file storage service written in PHP that will manage files for multiple users. It will also allow users to share files - both to specific users or to

the public at large. File management will be primarily accomplished via tags set by the user.

3.2.1 Product Perspective

3.2.2 Product Features

3.2.3 Use Cases and Characteristics

3.2.4 Operating Environment

3.2.5 Design and Implementation Constraints

3.2.6 User Documentation

3.2.7 Assumption and Dependencies

System Features

The system storage will be backed by a standard disk on the server. Each file will then also be recorded in a Postgresql database along with some metadata. This metadata will allow the server to verify that the file is in the state it was uploaded in.

3.3.1 System Feature 1

External Interface Requirements

3.4.1 User Interfaces

3.4.2 Hardware Interfaces

3.4.3 Software Interfaces

3.4.4 Communication Interfaces

Other Non-Functional Requirements

3.5.1 Performance Requirements

3.5.2 Safety Requirements

3.5.3 Security Requirements

3.5.4 Software Quality Attributes

Other Requirements

SYSTEM ANALYSIS AND MODELLING

Use case Diagram

Normalization and E-R Diagram

Data Dictionary

Functional and Behavioural Modelling

Gantt Chart

TEST CASES

SCREENSHOTS

LIMITATIONS AND FUTURE ENHANCEMENTS

CONCLUSION

REFERENCES AND BIBILOGRAPHY
