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# **Software Requirements Specification**

**For**

**<Project Online File Sharing>**

**Requirements for Version 1.0.0**

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# 1. Introduction

## 1.1 Purpose

The purpose of this document is to specify the requirements and preview some elements of the analysis model of the program Online File Sharing.

In order to make this project successful we need-

- Client
- Server
- Uploader
- Downloader

### Client

The client will be the browser.

### Server

Server is the vital part of Online File Sharing. Every file will be uploaded on the server. Files will be categorized by their types. There will be search option to search the desired file easily.

### Uploader

Uploader will upload the files on server according to downloader's needs. They will get permission to edit the files or delete the files if needed.

### Downloader

Downloader can request for files and they can download the files from the server as well.

## 1.2 Project Scope

Online File Sharing offers to reserve different types of files in different categories in server safely.

Its main objective is to provide the uploaded files to the clients at any place fast and easily with proper security.

Its goal is to access the files from anywhere when you need.

## **2. Overall Description**

This section gives about the background information about the specific requirements of an online file sharing site. This section will describe the product that will affect the final product.

### **2.1 Product Feature**

#### **User registration**

New users can register to upload their own file system. User management will easily integrated the system so that user can upload, download or edit their file easily. They will have a profile page so that they can update their profile and viewers who will download any file can see that who the uploader is. If some users doesn't wants share their identity they can upload file anonymously.

#### **Upload Files**

Uploading part is the main point of this project. It will be based on user control so the user can upload it step by step. After uploading the file the system will take some time to analyses the contents in the meantime uploader can see the status of his progress of uploading. After verifying the content the system will finally upload it on the site and user will see that in his progress bar. User will have options to organize it and sharing or restrict it.

#### **Share Files**

In uploading option there will be a feature by which they can share it to the specific groups by creating a group or they can restrict people with whom they don't want to share the file. Only group member will can see that file when searing or downloading in the site.

#### **Version Control**

We know that every file will have a new version after some time so user will have options like upload a new versions of it and if user wants to archive/delete the old versions they can do it too.

## **RSS Feeds**

Users have an option to publish their RSS feed so that others can use the feed to show the latest file changes and uploads in their website. Users will be given an option whether to include a file in the RSS feed while uploading the file.

## **Search**

Search is another important features of a file sharing site. It will have features like sample search and advanced.

## **Mobile Access**

Site will allow simple file access from any mobile device, providing accessibility on the go. Access share edit download any file from mobile device.

## **File Locking and Checkout**

User can lock file for modification. Once a file can lock other user can view it but they cannot edit or download it.

## **2.2 User classes & Characteristics**

This site will be access for any user for education purposes business or entertainment purposes (like movies or songs).

### **User**

Users are those who will upload the file and download or edit it.

### **Client**

The client is the system that connects to the server and handles the process of uploading and finally submits the progress back to the server.

### **Server**

The server handles the connections from clients and saves the results.

## **Admin**

Admin of this site will handle all the things are needed for the users and they will answer the questions in the forum. And they will also see that if any user breaks rules and regulations if so they will have access to block or ban them from using this site again.

### **2.3 Operating Environment**

This is a cross platform application, cause it a web application.

## **3. System Features**

### **3.1 System Feature Execute**

This section describes the functional requirements of the application and the features it provides. After analyzing the problem all use cases are explained below:

- **Sign Up:** Users need to sign up to use the website or app. The users should have an username and password. After filling their name, surname, email, age, phone and gender information, they will be registered to the system.
- **Sign In:** If a user completes sign up procedure, s/he can sign in the system by filling username and password boxes.
- **Sign Out:** A user may need to sign out from the system. S/he can do it by clicking the sign out button which is placed in every page.
- **Upload File:** User may add files to upload from his device memory. User can upload it step by step. After uploading the file the system will take some time to analyse the contents. In the meantime, user can see the status of his progress of uploading. After verifying the content the system will finally upload it on the site and user will see that in his progress bar.
- **Edit File Privacy:** After uploading a file, a user will have options to organize it and sharing or restrict it by choosing from the file privacy options.

- **Delete File:** User will be fully in charge of his file. After uploading a file, a user may delete that file anytime from the list of his uploaded files.

### **3.2 Priority**

1. User Signup and User Sign in/Sign out
2. Upload file
3. Edit File Privacy
4. Delete File

## **4. Non functional Requirements:**

### **4.1 Performance Requirements**

#### **Performance**

In file sharing all system should work in asynchronous process, chunk of data should be stored in buffer so the user should not wait for the full file and system must be robust. Impaling the fact that the system must perform as what every user expects. If there is an error in the system or opening the system so the error message lag time or poor connection problems or problem in browser response will occur system delay. In case of opening databases and or query in database there are no delays.

### **4.2 Safety Requirements**

#### **Consistency**

It should be assured that, all clients must be attachable to one server, so there would be appropriate control of the services and security of the data . Also

in case of a potential loss of connection between the client and the server the clients file sharing progress so far is lost. Server must maintain the scalability, portability and consistency. When the client finishes its sharing then its progress is sent to the server and be logged. In case of a potential server breakdown only the so far finished files are saved to the log file.

### **4.3 Security Requirements**

This program uses object oriented mechanisms to protect its data passed using methods Also there is no currently a security schema of this program. Thus the log files that are being created are readable using a simple text reader.

### **4.4 Software Quality Attributes**

#### **Availability**

Checking that the system always has something to function and always pop up error messages in case of component failure. In that case the error messages appear when something goes wrong so to prevail availability problems.

#### **Usability**

Checking that the system is easy to handle and navigates in the most expected way with no delays. In that case the system program reacts accordingly and transverses quickly between its states.

#### **Functionality**

Checking that the system provide the right tools for file uploading, downloading and deleting and additional sharing option. In that case the tools that the Database editor provide are the ones that provide that attribute.