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**Problem statement:**

Nowadays, because of the growing industry, data generation speed is very high. As there are a lot of data, the data needs to be shared for any business purpose. But the main problem while sharing files is.

1. **Security** – Many files include sensitive data, so sharing them directly can cause expose sensitive business data.
2. **File Size** – Even Gmail allow for file sharing of approximately 25 MB of attachment per mail, so sending a large file is difficult.
3. **File Format** – For sharing a word file as a pdf, the first file needs to be converted to pdf, which is a very time-consuming task.

**Objectives:**

The objectives of this project are-

1. **Security** – The files can be password protected. Users can opt-in for an option to add the password.
2. **File Size** – Using Gmail only up to approximately 25 MB files can be shared, using Transfer Village more than 25 MB files can be shared.
3. **File Format** – For sharing a pdf file which is in the word file format, the first user needs to convert that file using third-party software. Now using Transfer Village, you can convert the word file to pdf on-the-fly and directly share it.

**Tools and technology:**

1. **Flask** – Flask is a web framework, it’s a Python module that lets you develop web-based applications easily. It has a small and easy-to-extend core: It’s a microframework that doesn’t include ORM (Object Relational Manager) or such features. Flask is based on the Werkzeg WSGI toolkit and jinja2 template engine.
2. **Python** – Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. Its high-level built-in data structures, combined with dynamic typing and dynamic binding, make it very attractive for Rapid Application Development, as well as for use as a scripting or glue language to connect existing components together.
3. **HTML** – HTML stands for Hyper Text Markup Language. HTML is the standard markup language for creating Web pages. HTML describes the structure of a Web page. HTML consists of a series of elements. HTML elements tell the browser how to display the content. HTML elements label pieces of content such as “this is a heading”, “this is a paragraph”, “this is a link”, etc.
4. **CSS** – CSS stands for Cascading Style Sheets. CSS describes how HTML elements are displayed on screen, paper, or in other media. CSS saves a lot of work. It can control the layout of multiple web pages all at once. External stylesheets are stored in CSS files.
5. **JavaScript** – JavaScript is the world's most popular programming language. JavaScript is the programming language of the Web. JavaScript is easy to learn. JavaScript is used to program the behaviour of Web pages.
6. **Object Storage** - Object storage, also known as object-based storage, is a computer data storage architecture designed to handle large amounts of unstructured data. Unlike other architectures, it designates data as distinct units, bundled with metadata and a unique identifier that can be used to locate and access each data unit. These units—or objects—can be stored on-premises, but are typically stored in the cloud, making them easily accessible from anywhere. Due to object storage’s scale-out capabilities, there are few limits to its scalability, and it’s less costly to store large data volumes than other options, such as block storage.

**Working:**

1. The new user will register and login on to the website.
2. User will upload a file with options to choose from like whether he/she wants to make a file password protected or not. Whether he/she wants to expire the link for the file?
3. Once everything is uploaded, a unique link will be shown for sharing.
4. The user will share that link.

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