Conceptual Framework

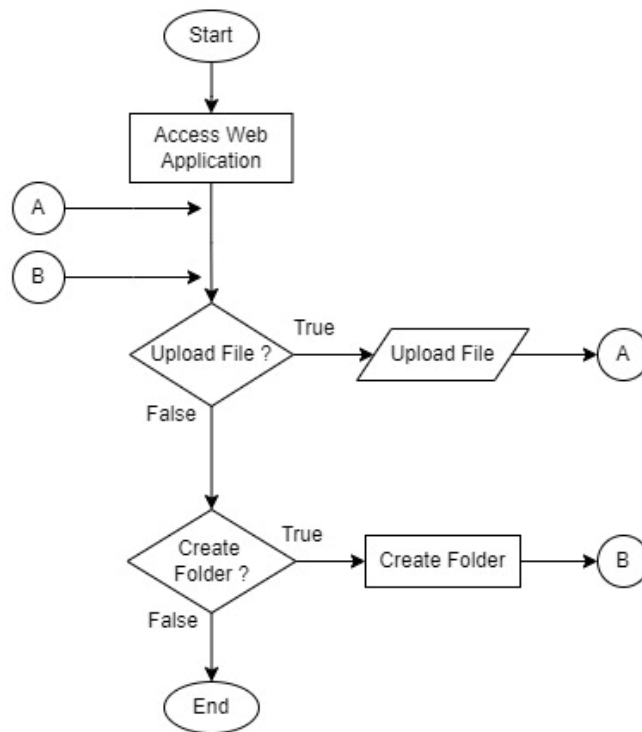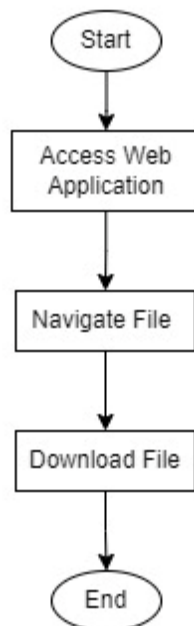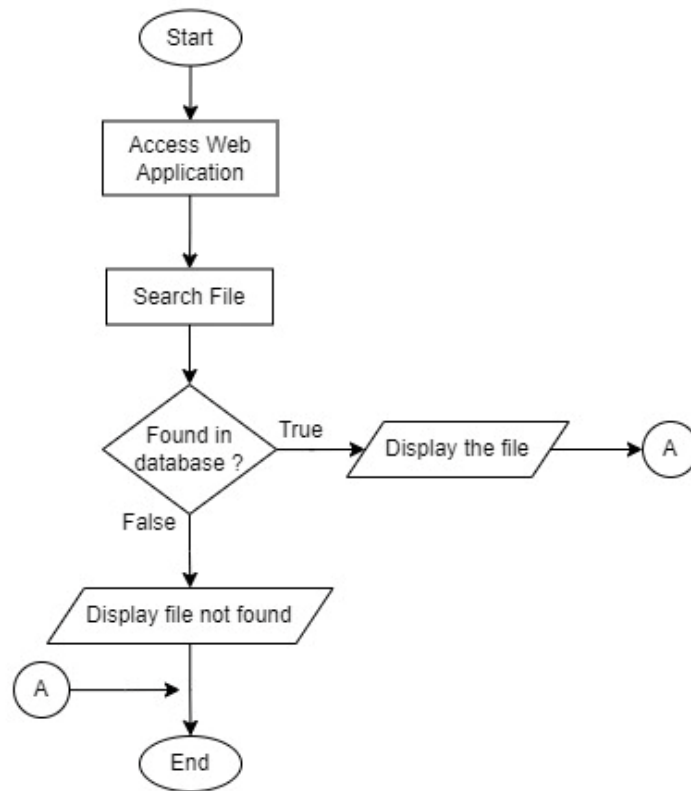| INPUT	PROCESS	OUTPUT
upload file	Web Application → Server → Storage Pool	Individual Drive: File Chunk, File Chunk, Parity Info.
Create Folder	Server → Storage Pool	Individual Drive: File Chunk, File Chunk, Parity Info.

Software Development

Flowchart
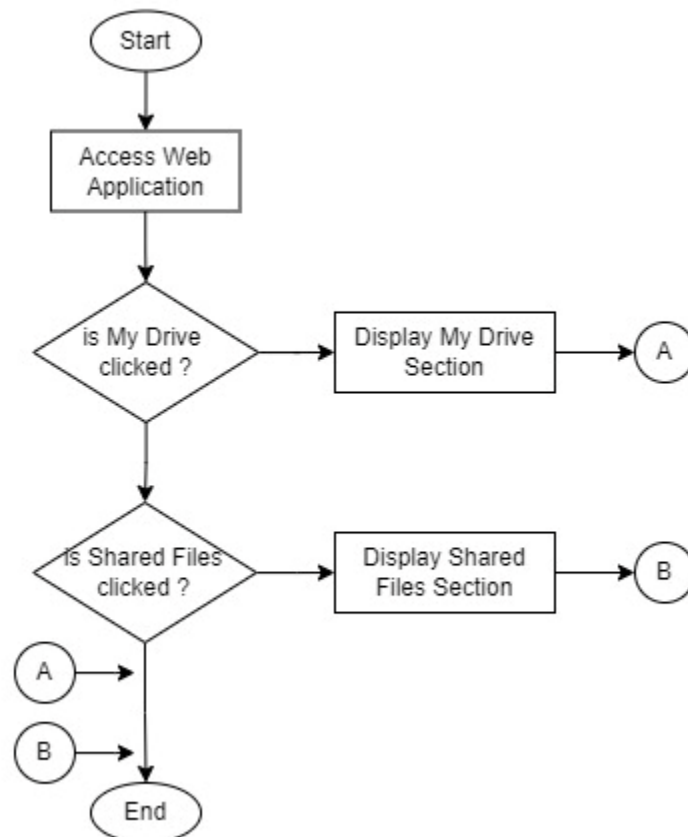
Upload File

Download File

Search File

```
                    ┌──────────┐
                    │  Start   │
                    └────┬─────┘
                         │
                         ▼
                  ┌──────────────┐
                  │ Access Web   │
                  │ Application  │
                  └──────┬───────┘
                         │
                         ▼
                  ┌──────────────┐
                  │ Search File  │
                  └──────┬───────┘
                         │
                         ▼
                      ◇ Found in ◇   True    ╱ Display the file ╱ ──→ (A)
                      ◇ database? ◇ ────→
                         │
                       False
                         │
                         ▼
              ╱ Display file not found ╱
    (A) ──→           │
                      ▼
                 ┌──────────┐
                 │   End    │
                 └──────────┘
```

Share File

```
                    ┌──────────┐
                    │  Start   │
                    └────┬─────┘
                         │
                         ▼
                  ┌──────────────┐
                  │ Access Web   │
                  │ Application  │
                  └──────┬───────┘
                         │
                         ▼
                  ┌──────────────┐
                  │ Share File   │
                  └──────┬───────┘
                         │
                         ▼
               ╱ enter gmail of ╱
               ╱   receiver     ╱
                         │
                         ▼
                   ◇ user found in ◇        ╱ Display user not found ╱ ──→ (A)
                   ◇ database?     ◇ ────→
                         │
                         ▼
               ╱ Display successful share ╱
    (A) ──→            │
                       ▼
                  ┌──────────┐
                  │   End    │
                  └──────────┘
```