FILE TRACKING SYSTEM

A. FUNCTIONAL REQUIREMENTS:

a) INTERFACE FOR RECORDING .

i. Icon for send.
ii. Notification to the sender and the file receiver.
iii. Time In and Out.

b)Interface for recording personal details.(sender and receiver db)

I. file id.
II. User id
III. Tracking points.
IV. .notification on file movement.

SYSTEM DESIGN.

ARCHITECTURE:

a) FRONT END:WEB BASED INTERFACE.

UI FOR TRACKING.

b.BACKEND:

i. LOGIC FOR HANDLIND FILE TRANSER.
ii. DATABASE.STAFF DETAILS.
iii. PK OFFICE OF THE DIRECTOR.

COMPONENTS.

i. User authentication and authorization. user login
ii. Data storage –Cloud.
iii. Tracking and login.
iv. Notifications emails.
v. UI: Dashboard

Implementation :

i. Technology stack
ii. Front end: Html ,CSS, Javascript.
iii. Backend: node JS, Python and Java.
iv. Database: Mysql.
v. File storage :Google cloud storage.

FUNCTIONS

a. **Upload file :**

i. End point to appload a file:
ii. Store the file and the meta data.
iii. Log the upload event.

b.Move a file

i. .Functionality to move file between different storage
ii. Login movement.

c.Track the file.

i. Dashboard to view file movement history.
ii. Query the logs to display the file status and movement history.

Testing

i. Unit testing:
ii. Integration testing.
iii. User acceptance Testing.

Deployment

i. Backend on the server: AWS EC2
ii. Frontend on the webserver. (Netlify and Vercel)
iii. Ensure db is secure and accessible to the back end .

Maintenance

i. Regular Update Dependencies and security patch
ii. Monitor system performance and logs for issues.
iii. Provide user support and handle feedback for improvements .

Prototype: