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**PROJECT STATEMENT**

Developing a unified patient treatment platform for healthcare advancement.

**SUMMARY**

Our project aims to help the patients organize and save their medical prescriptions in a central repository. This would make it easy for the users to save all the documents at one place and have an easy access to all their files at one place.

**PROJECT DESCRIPTION**

1. Background

Usually people face problems like forgetting about their prescription at home while going to buy medicines. In common cases of accident or mis-happening at a place, the first aid providers cannot treat the patient without a record of their previous medical histories. Also while taking a second medical opinion it is important for the doctor to check the previous reports and prescriptions which can be missing sometimes but if we have them linked with a data warehouse from where we can extract and present them it’d be so much easier and effective.

1. Overall purpose

The main aim of this project is to develop a user friendly UPTP that would help to optimize the patient access via their devices. Our project would help the patient have access to their prescriptions on a central repository which would be beneficial for them to consider whenever and wherever needed.

1. Objectives
2. To allow users to store their prescriptions on database which they can use later.
3. To make is easy for hospitals and doctors to study previous medical history of a patient
4. To establish a safe authorized and encrypted connection between user and system.

**GROUP MEMBERS AND THEIR ROLES**

* Ajay Sonkar: Coding and team leader
* Ishita Mehta: workflow planner
* Lavanya: App UI/UX
* Nitika Thakur: Presentation

**PROJECT WORK PLAN**

1. SECURING PATIENT DATA

The user’s data would be safe by implementing SSO (Single Sign-in Option) that reduces all user applications logins to one login for convenience and security. Using it it’d be easy for users to access the platform by loging in using other accounts like google, facebook and email accounts.

The hospitals will be required to get basic OAuth for integrating API. It would basically consist of clientID and clientSecret

Users will be able to login and access the partner health organizations so they can read the data they have access to.

A centralized database would store all the files and documents which would be encrypted for user’s security

A key repository would store encryption keys for accessing documents from central database.

REST API would connect all the components together and help to access the application’s server.

**API**: connects mobile clients; central and keys repository, also bridges the implementation with current health record systems. Can be accessed by OOuth

**Central repository:** stores all the encrypted data of patients and links them to a unique id.

**Keys repository:** links unique file ids to their respective keys.

Cached file ids and user ids for quick access