

REQUIREMENT SPECIFICATION DOCUMENT

Version 0.5

Project Title: DIGITAL WALLET FOR MEDICAL DATA

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Abstract Recapitulation:

The aim of this project is to create a system that will facilitate secure storage and access of a user-focused medical health record and maintain a single true version of the user's data.

The system will enable users to give conditional access to different healthcare agents such as doctors, hospitals, laboratories, pharmacists and insurers to interact as they see fit.

A. FUNCTIONAL REQUIREMENTS

1 USER/PATIENT MODULE

1.1 Medical Information

FR1	Patient/User Shall be able to record and update medical information
FR2	Each Digital wallet shall have a unique wallet ID/token to be used for accessing medical records by other stakeholders as allowed by records owner.
FR3	A User/patient shall be able to control who can access the information in a wallet and for how long
FR4	A User/patient shall be able to manage his/her prescriptions.
FR5	The system shall give user capability to download, print or share the medical documents.
FR6	User/Patient shall be able to decide which information can be viewed in case of emergency
FR7	A patient shall be able to confirm reception of a service from health care provider in order to make a service claim form valid

1.2 Personal Particulars

FR7	User shall be able to add and update residential address
FR8	User shall be able to add and update personal contacts such as phone and email
FR9	User shall be able to add and update emergency contacts
FR10	The system should enable user to connect his/her wallet with wallet of blood-relative
FR11	User shall be able to add and update insurance information

2. HEALTH CARE PROVIDER MODULE

FR12	Health care provider shall be able to access demographic information such as full name and address from patient's wallet
FR13	When a patient visits a health facility, a health care service provider shall be able to create service forms , which will contain records for a particular visit, such as lab tests, diagnosis, prescriptions etc.
FR14	Each service form shall have a unique token
FR15	Physicians, nurses, lab technicians, pharmacist, shall be able to use service form id to access a service form
FR16	Service forms shall contain payment information
FR17	Health care provider shall be able to add and manage its health care experts such as doctors
FR18	Physicians, nurses, lab technicians, pharmacist, shall use service the form id to access a service form
FR19	Health care experts such as doctors and lab technicians shall be able to record relevant information e.g. lab technician shall be able to record lab test results in a service form
FR20	Health care provider shall be able to control which expert can view which part of the records (permissions)

B. NON FUNCTIONAL REQUIREMENTS

NFR1	The PHR shall be organized in way that guides consumers to the most important information in their medical record including diagnosis, medications and results.
NFR2	The System shall provide informational resources to help healthcare consumers understand any information within the medical record.