# **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.

1. **FUNCTIONAL REQUIREMENTS**
   1. **USER/PATIENT MODULE**

## Medical Information

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| --- | --- |
| 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 |

## Personal Particulars

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| 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**

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| --- | --- |
| 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) |

## **NON FUNCTIONAL REQUIREMENTS**

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| --- | --- |
| NFR1 | The System shall be organized in way that guides patients 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. |