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**BIT Level 2**

**Project Name: Vaccination Management System**

## **PROJECT DESCRIPTION**

### **1. PLANNING**

**Vaccination Management System** is designed to provide real-time access to vaccine administration data to support decision-making and other health care related agendas. As the name suggests, the vaccination management system is designed to handle all the data related to vaccination. The data contains the name of the persons who have taken a vaccine and some data related about him/her.

#### **The Goals of Vaccination Management System**

- > to enable Health care administrators to know how many people were vaccinated at a certain time**
- > to enable Health care workers to keep information about vaccination progress**
- > to help people get vaccination proof once it is needed**

#### **The Objective of Vaccination Management System**

- > to get a System where a user can register, keep, retrieve all information concerning vaccinations.**

#### **The problem to be solved**

**The problem** was a way of keeping the vaccination data. This System will keep all data hence the problem is solved.

### **2. Design**

#### **Functional Requirements**

- System will allow a user to login in**
- System will allow a user to register the one who was vaccinated**
- The system will allow the user to delete,update and monitor the vaccination data**
- Integrity of data by checking the inconsistent dataUnique database**
- Unique database**
- Protection against deliberate or accidental attempts of unauthorized access**
- Data validation from other external systems**

#### **Users interaction**

**Health care workers** will be the one to access the system and register the people who were vaccinated and when the data about those people who were vaccinated are needed they can contact the health care and the health care can print out those data.

Everyone does not have the permission to access the system, it's only the health care workers who can.

### **3. Developments**

Programming language we used is Java and the Library was MySQL connector

#### **Development steps for the vaccination Management System project**

We used Apache NetBeans IDE and MySQL database

Database design and setup:

We used MySQL as the database management system

1. We created a Database
2. We created tables
3. We connected to MySQL using MySQL connector
4. We created relationships between tables

While developing we have used both back-end and front-end and database system and few libraries

Requirements : PC, Network and Jdk

Font-end : Java with Net beans v8

Back-end : Java with Net beans v8

DBMS: Xampp

Libraries : java-mysql-connector

#### **Testing**

While Development we met with many errors. So we used some approach of testing like:

- Unit Test
- Integration Test
- Function testing
- End-to-end test
- Acceptance test

We have found errors while developing this system and we have fixed it and on each step we find mistakes and some feature to add and we have corrected them.

Performance test will be the last one

### **5. Deployment**

Deployment of our system will continue after it is accepted all requirements are prepared it is ready to be deployed. our system will be responsive in all devices like personal computer , Desktops.

After it is accepted we will proceed with processes of deployment and it will be used all over the country.