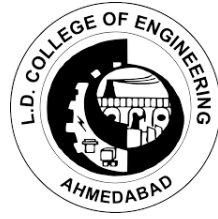




SSIP



HEALTH CITY (HC)

PROJECT ID: GIH068

PROJECT NAME: HEALTH CITY (HC)

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HEALTH CITY (HC)

ABSTRACT:

Health City is a web portal and Data Analysis Tool which help to generate health card for every citizen. This health card is just a plastic card containing the general info of the concerned person like name, gender, etc. Also, there will be a unique serial number associated with each health-card to identify the concerned entity using which authorized health centers can add/update the health regarding details of the concerned entity. Also, each user can review his/her own health reports/Details. The other part is the data analysis tool which will analyze the data concern to a particular area/city to which the health organization can use to take the required precautions measures. It also includes analytics based on age, gender, etc. Each and Every Dr. /Labs based on their practice certificate/license will be given the authorization to add/update the health details of each concern entity. Using this system, the concern health organization can treat their patients more effectively.

LITERATURE REVIEW:

- We already have such government systems that keep the records of the patient's health details.
- But the problem with the existing system is it records the details only of the patients of government hospitals.
- Due to this, the health records of most of the citizens remain unrecorded, Due to which the newly treating doctors don't know the patient's past health history and hence the problem still remains unsolved.
- Also, there is no authorization with each and every private hospitals and laboratories to access or update the patient's record. As there is no complete data, the data analysis doesn't exist and is of no use.

POSSIBLE APPROACHES:

- Unlike the existing system, HEALTH CITY will take care of each and every private and public hospital along with from smallest clinic to Higher Health Organizations, by putting the compulsion of mentioning the health card's serial number for every small treatment.
- Our system will authorize the doctors and give them the rights to update the patients' health card data.
- Using this approach we will be able to collect maximum health-related data of citizens.
- Performing data analysis on this data using artificial intelligence we can get appropriate knowledge of the prevailing diseases in a particular region which will eventually help the higher health organizations to take appropriate measures.
- Also, the data will contain the patient's past health records which will help newly treating doctors to treat their patients effectively.

CHALLENGES:

- With our approach the main and concerned challenge will be to collect such health data by convincing user to register for health cards and authorize the Doctor and laboratories for patient's health data updating.
- Also the data analysis will be little complex for various type of analytical outcomes.
- The government health organization already contains their past patient's data, the challenge is to obtain these data from various government bodies.
- The linking of Aadhar card details with our system will also be little complex as it is concerned with sharing of government data.

TOOLS AND TECHNOLOGIES

- **FRONT END will include:**

- Html
- Html5
- CSS
- CSS3
- JavaScript
- Bootstrap
- JQuery
- Ajax

- **BACKEND will include:**

- PHP
- SQL Database
- MySQL
- PhpMyAdmin

- **Data Analysis will be done using:**

- Python
- Python Libraries: numpy, pandas, matplotlib, scikit, etc.
- Data Analysis Algorithms
- Machine Learning Algorithms

- **HARDWARE REQUIREMENTS:**

- **Device:** - Any Mobile Device, Laptop or Personal Computer

- **Libraries we use:-**

- Python Libraries: numpy, pandas, matplotlib, scikit, etc.

- **SOFTWARE REQUIREMENT**

- **Server:** - WAMP/ XAMM
- **Language:** - Python and its Data analysis libraries and tools
- **Back End:** - Php
- **Os:** - Windows 10
- **Browser:** - Any Latest Browser

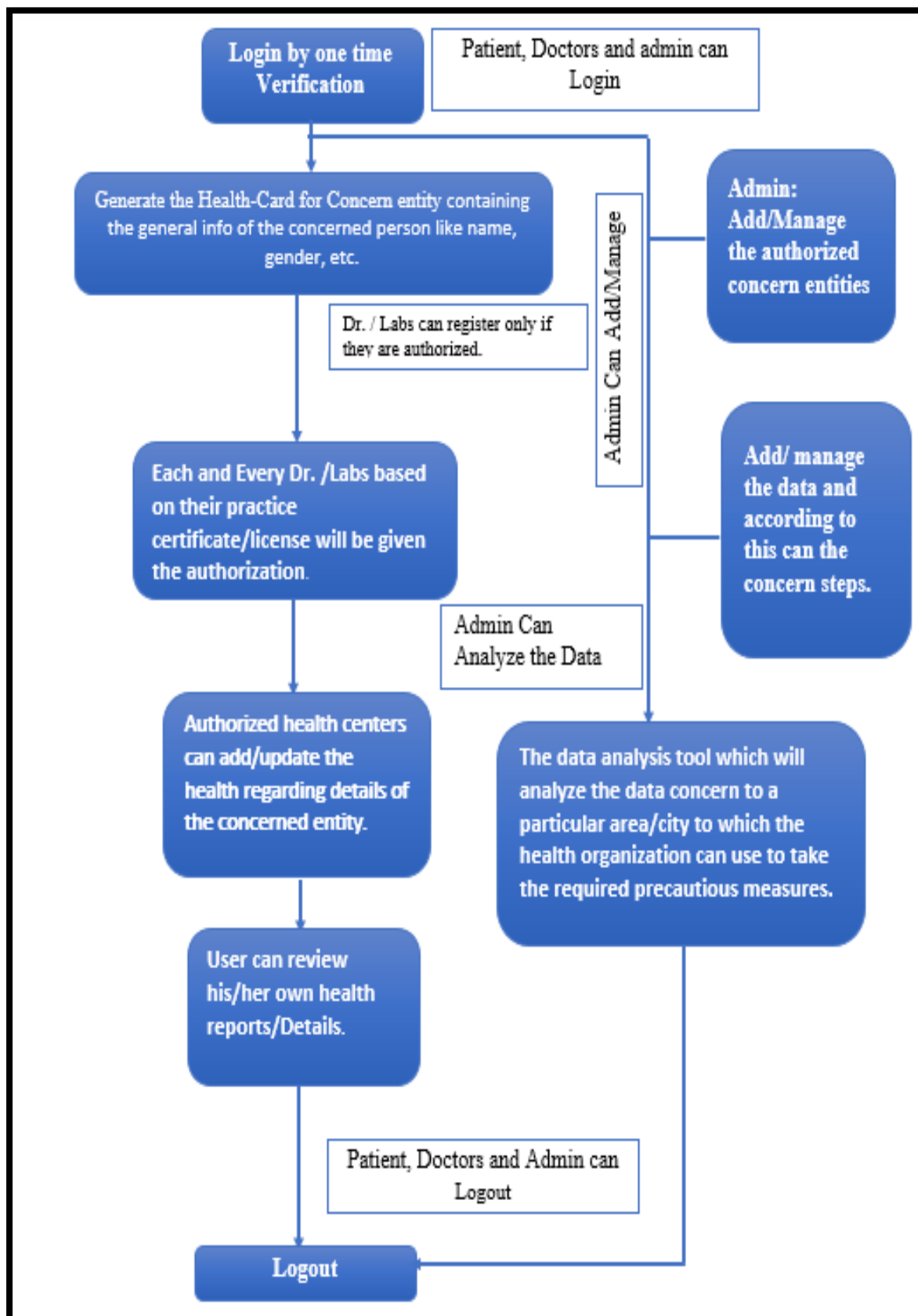
POSSIBLE OUTCOMES:

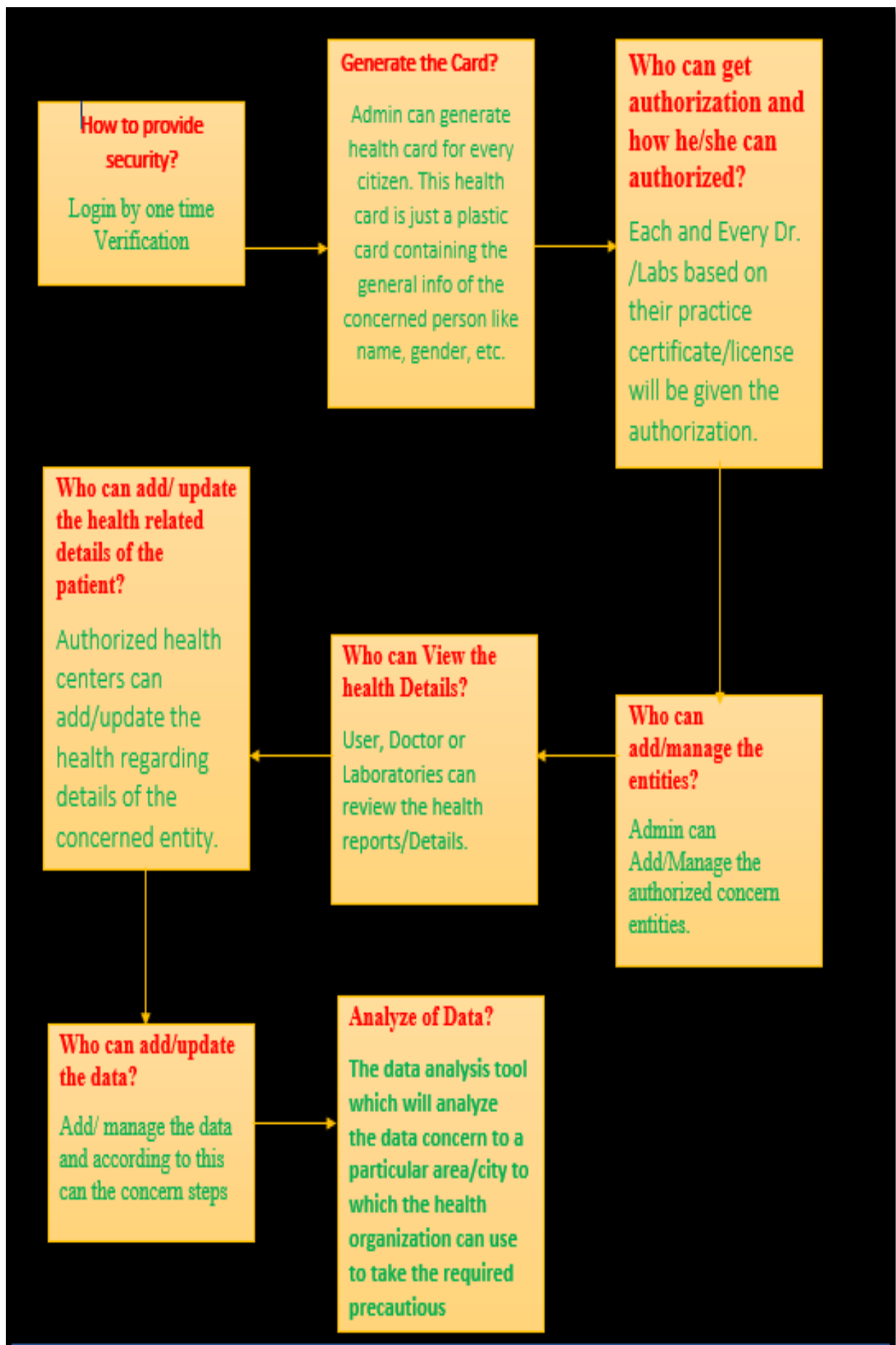
- If the system is deployed entirely and collection of real time data is done appropriately, then it would be greatly helpful to each and every authorized doctors and laboratories.
- The doctors will be effectively treat their patients on the basis of past as well as concerned details mentioned in the health card.
- Main outcome is with the Higher Health Organization, which will use the outputs of data analytics and give their appropriate medical measures to solve regional disease problem.
- Other than this there must be many such outcomes of data analytics which will help unanimously.

WORK DONE TILL DATE:

- We have planned for the workflow and design of the system. Design of the web pages and database fields have been planned.
- We have divides our tasks among the team members and started working on the individual tasks.
- We have started to have talks with Medical representatives and various laboratories incharge.
- We are done with research of existing application providing similar solution.
- We have started learning the data analysis methods and collecting health data for learning purposes.
- We designed the health card attributes and workflow of the entire system and data.

SOLUTION





IMPLEMENTATION

