



Parshvanath Charitable Trust's
A. P. SHAH INSTITUTE OF TECHNOLOGY, THANE
(All Programs Accredited by NBA)

Department of Information Technology



Surakhsha Kavach : ML Based Cross platform Application for Covid-19 Vulnerability Detection.

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Introduction

- THE novel and contagious viral pneumonia, COVID-19 (Coronavirus disease-2019), affected more than 42 million people and caused the death of more than 1.2 million people worldwide as of October 2020 .
- WHO declared it a global pandemic and suggested that early detection, isolation, and prompt treatment could be useful to slow down the COVID-19 outbreak . Therefore, various bodies have committed themselves to conducting research focusing on COVID-19.

Objectives

1. To Analyze the Data and describe the data/statistics of globe for predicting the current trend of COVID-19 infections in world using various machine learning algorithms.
2. To predict the percentage chances of having Covid-19 so we will use algorithms such as Decision tree, Random Forest and Support Vector Machine.
3. According to the age,gender,pre-disease in Senior Citizen i.e Diabetes,Blood Pressure,this will help user to identify the percentage of chances and can take precautions to fight against Covid-19.
4. To build user Friendly Mobile Application.

Problem Definition

- The overall global economy has been affected by this pandemic along with the health, safety and hygiene of individuals all over the world.
- People should know the overall rate of rising, death, vaccinations, recovery, etc all over the world.
- People should know how much age-wise percentage they can be affected by covid-19 to take precautionary measures as early as possible.
- In the existing system architecture, nowadays people are not much aware of the disease they are suffering from and with the flow they come up with a measure disease like Covid.

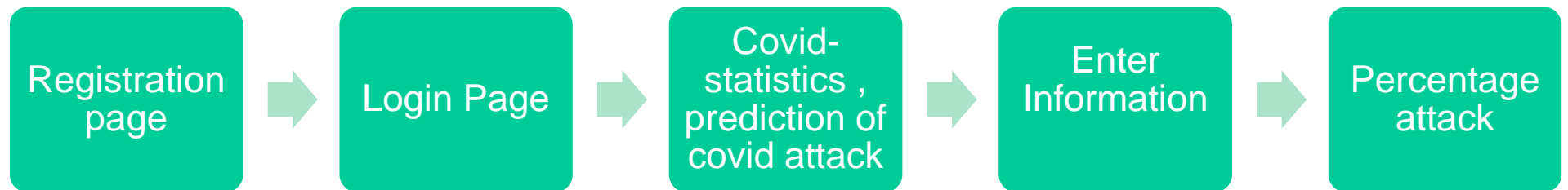
Technological Stack

- Jupyter Notebook.
- Flutter for mobile application development.
- Android Studio.
- Dart –programming language used to code flutter apps.
- Firebase.

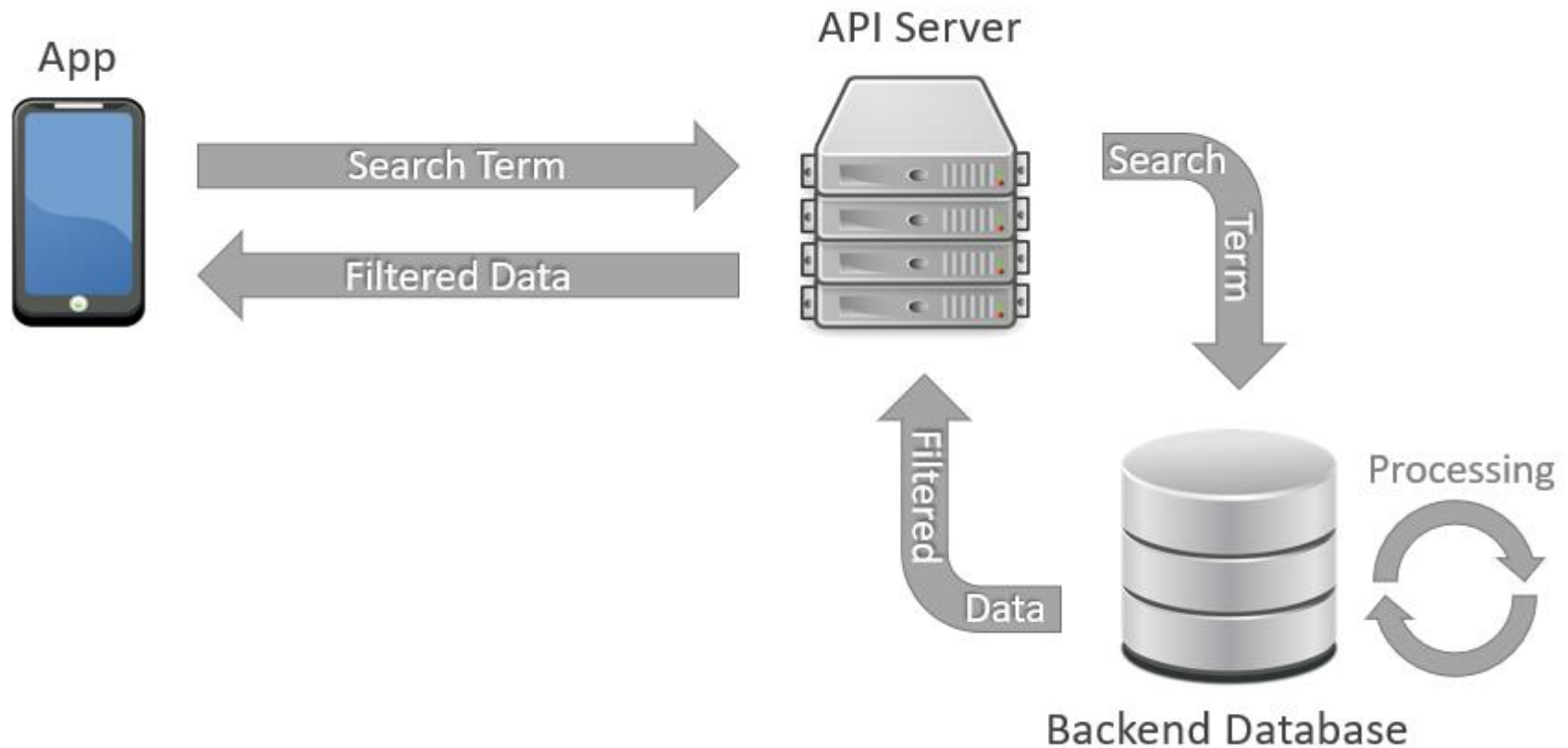
Review Suggestions (Given in Last meeting)

1. To Build an Mobile Application instead of web Application.
2. To have different languages in Application for Eg- Hindi,Marathi,etc.
3. To study the Algorithms precisely.

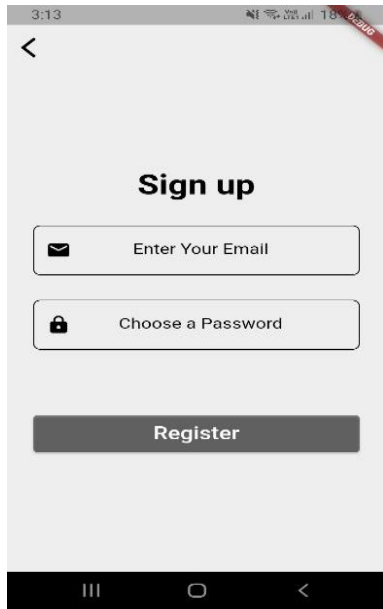
Proposed System Architecture Working



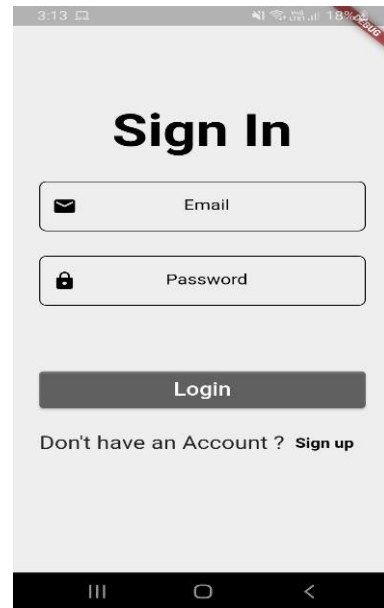
Prototype Design Demonstration



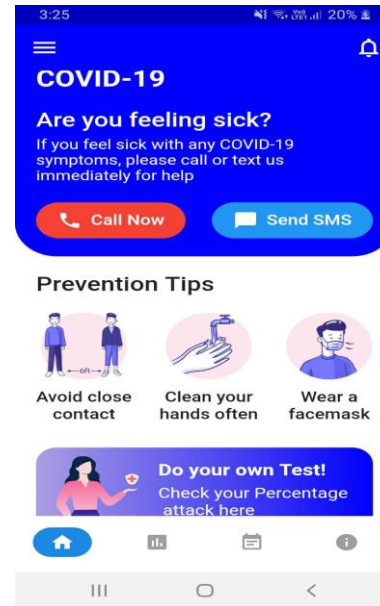
Implementation Status



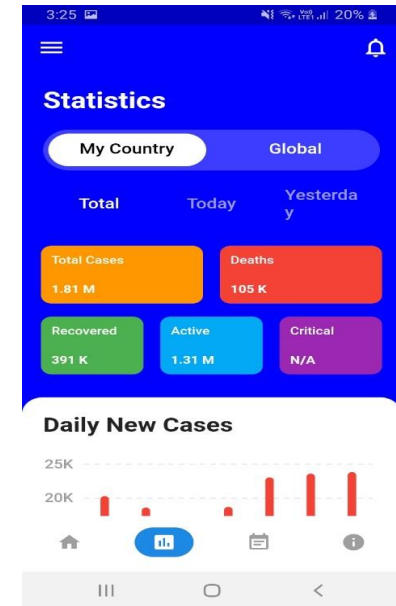
Sign UP page



Sign IN page



Covid-dashboard



Statistics Dashboard

Also Analysis of Covid-19 is done in Jupyter Notebook.

Status of Paper Draft & Targeted Conference

Status of Paper draft: Done

Conference Details:

- ICCIC 2021: International Conference on Cognitive & Intelligent Computing.
- ADSC-2022: International Conference on Advances in Data Science and Computing Technologies (ADSC-2022)

Thank You...!!