

A young woman with long brown hair, wearing a blue and green checkered shirt over a grey t-shirt, is sitting at a desk in a classroom, looking down at a book or paper. Other students are visible in the background, slightly out of focus.

Galgotia's College



of Engineering

and Technology

Project : Covid19 Updater & Predictor



Covid19 Updater & Predictor

Project of

Galgotias College of Engineering and
Technology

IT department - B.tech Lateral

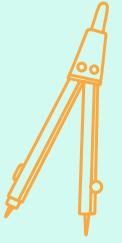
(Supervisor: Mr.Javed Sir)

Presented by

Ved Prakash Gupta (20GCEBIT023)

Utkarsh (20GCEBIT084)

What we do ?

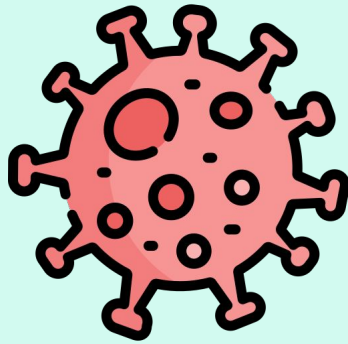


CoronaUpdate is non-profit tool that gives the Update of **COVID19** in India and its States.
and also predicts the next 15 days **COVID19 Situation** in India. .
We send daily Update of **COVID19** situation to Clients Mail .

In the form of Plots and Bars. For easily **Understand** and Seeing .

Technical Aspects :
it uses simple **Machine learning** and **Data Science** Algorithm for
Analysing , Processing and Predicting Data .





A General Introduction to COVID-19

A novel coronavirus (CoV) named '2019-nCoV' or '2019 novel coronavirus' or 'COVID-19' by the World Health Organization (WHO) is in charge of the current outbreak of pneumonia that began at the beginning of December 2019 near in Wuhan City, Hubei Province, China [1-4]. COVID-19 is a pathogenic virus. From the phylogenetic analysis carried out with obtainable full genome sequences, bats occur to be the COVID-19 virus reservoir, but the intermediate host(s) has not been detected till now

Coronaviruses are a large family of viruses that are known to cause illness ranging from the common cold to more severe diseases such as Middle East Respiratory Syndrome (MERS) and Severe Acute Respiratory Syndrome (SARS).

Table of Contents



01

About the Project

CoronaUpdate

02

Requirements

let's talk about Backend

03

Front View

Website view

04

Software Infrastructure

Parts

05

Diagram

Structure

06

Our Team

Describe the topic



About the Project

Corona Update App

- Tool is Designed & Developed for **Predicting & Sending** Covid19 details to our Clients Mail in the Better way.
- Who is our Client ?
 - Person who has been Successfully registered with [CoronaUpdate](#) tool.
- Once You have registered with App . You will receive Covid19 details Everyday on Your Mail.



Requirements

: let's talk about Backend

- Web Framework : **Python-flask**
- Database : **Cloudant**
- Language :
 - **Python**
 - **JavaScript**
 - **HTML**
 - **CSS**
- Data Science & Machine Learning tools :
 - **Numpy**
 - **Pandas**
 - **Matplotlib**
 - **Fbprophet**

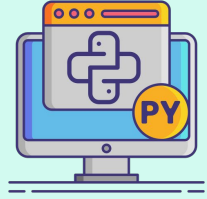


Requirements

: *Python Modules*

pip==20.3.3
statsmodels
cloudant==2.14.0
Flask==1.1.2
google-api-core==1.24.1
google-api-python-client==1.12.8
google-auth==1.24.0
google-auth-http2==0.0.4
google-auth-oauthlib==0.4.2
googleapis-common-protos==1.52.0
http2==0.18.1
matplotlib==3.3.3
numpy==1.19.4
oauthlib==3.1.0
pandas==1.1.5
Pillow==8.0.1
prettytable==2.0.0

protobuf==3.14.0
pyasn1==0.4.8
pystan==2.19.1.1
pyasn1-modules==0.2.8
pyparsing==2.4.7
python-dateutil==2.8.1
pytz==2020.4
requests==2.25.1
requests-oauthlib==1.3.0
soupsieve==2.1
sqlparse==0.4.1
uritemplate==3.0.1
urllib3==1.26.2
Fbprophet



Python

Python is an Interpreted , high level and general-purpose programming language.

Python's design philosophy emphasizes code readability with its notable use of significant whitespace. Its language constructs and object-oriented approach aim to help programmers write clear, logical code for small and large-scale projects.



Flask is a web development framework developed in Python. It is easy to learn and use. Flask is “beginner-friendly” because it does not have boilerplate code or dependencies, which can distract from the primary function of an application.

Features of Flask

Some features which make Flask an ideal framework for web application development are:

- Flask provides a development server and a debugger.
- It uses Jinja2 templates.
- It is compliant with WSGI 1.0.
- It provides integrated support for unit testing.
- Many extensions are available for Flask, which can be used to enhance its functionalities.



HTML

Hypertext Markup Language is the standard markup language for documents designed to be displayed in a web browser.

It can be assisted by technologies such as Cascading Style Sheets and scripting languages such as JavaScript.

HTML, as a markup language doesn't really "do" anything in the sense that a programming language does. HTML contains no programming logic.

It doesn't have common conditional statements such as If/Else. ...

This is because HTML is not a programming language.



CSS

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language such as HTML.[1] CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

CSS is designed to enable the separation of presentation and content, including layout, colors, and fonts.[3] This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple web pages to share formatting by specifying the relevant CSS in a separate .css file which reduces complexity and repetition in the structural content as well as enabling the .css file to be cached to improve the page load speed between the pages that share the file and its formatting.



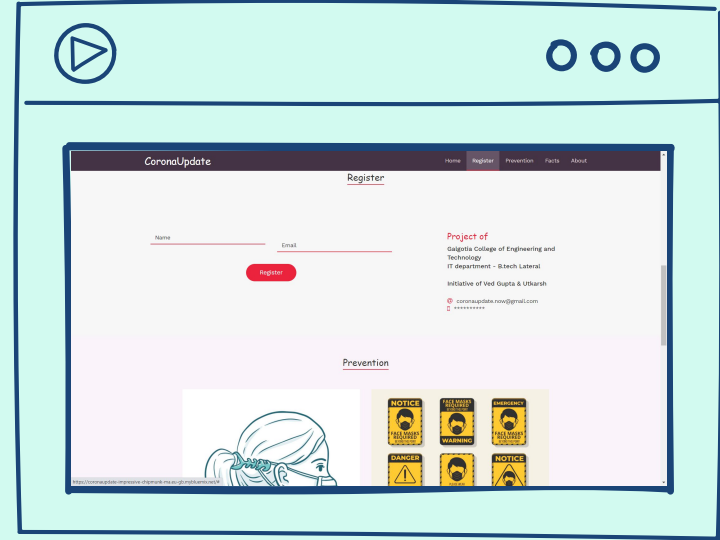
JavaScript

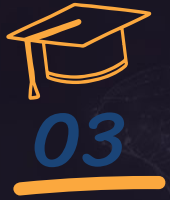
JavaScript, often abbreviated as JS, is a programming language that conforms to the ECMAScript specification. JavaScript is high-level, often just-in-time compiled, and multi-paradigm. It has curly-bracket syntax, dynamic typing, prototype-based object-orientation, and first-class functions.

As a multi-paradigm language, JavaScript supports event-driven, functional, and imperative programming styles. It has application programming interfaces (APIs) for working with text, dates, regular expressions, standard data structures, and the Document Object Model (DOM). However, the language itself does not include any input/output (I/O), such as networking, storage, or graphics facilities, as the host environment (usually a web browser) provides those APIs.

CoronaUpdate

Let's see how's the App looks like
: Front View





Welcome to CoronaUpdate App

It send the Covid19 detail's daily on Your Mail in Beautiful Visualisation

[Learn More](#)

CORONAVIRUS
2019-nCoV



Open Source



Contact For COVID19
Visualisation API



Send Your Love in Mail.

Register for Daily Update

Join our community and get access to the latest data of Covid19 and API for COVID data Visualisation!

Register

Register

Name

Email

Register

Project of

Galgotia College of Engineering and
Technology
IT department - B.tech Lateral

Initiative of Ved Gupta & Utkarsh

@ coronaupdate.now@gmail.com

Prevention



CORONAVIRUS PREVENTION TIPS



Facts

India witnessed an outbreak of the coronavirus, otherwise known as COVID-19, or SARS-CoV-2 in January 2020 when three Indian students travelled to the southern state of Kerala from Wuhan - the epicenter of the outbreak. All three tested positive for COVID-19, confirming a local infection. ”

Source: Statista



nextin.ml

What we do ?

CoronaUpdate is non-profit tool that gives the Update of COVID19 in India and its States. We send daily Update of COVID19 situation to Clients Mail . In the form of Plots and Bars. For easily Understand and Seeing .

Technical Aspects : it uses simple Machine Learning Algorithm for Analysing and Processing Data .

Our Clients

Register to be Our Client

Project

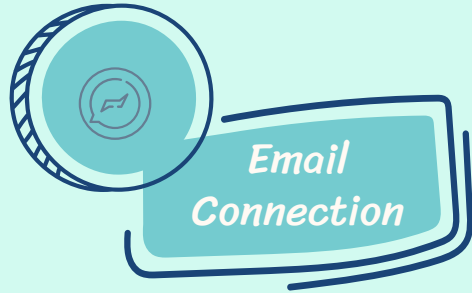
On Development Stage



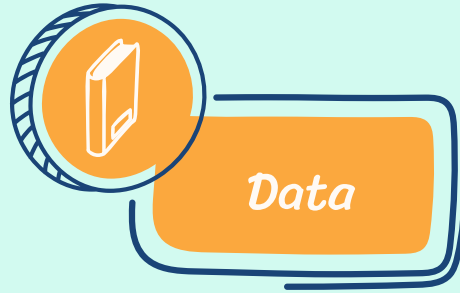


04

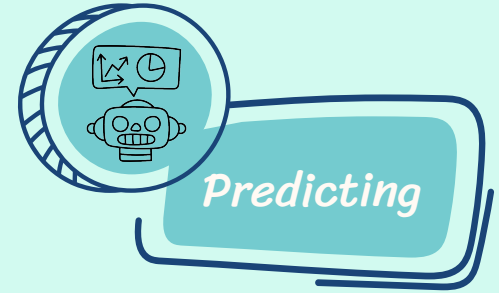
Let we see the software infrastructure :



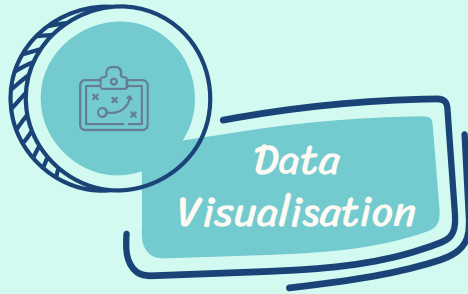
Create an Email
Connection for
Sending Emails



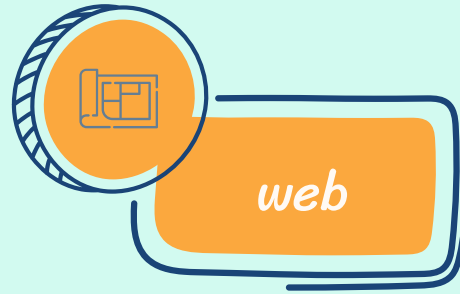
Receive Data from
different sources .
Process & Analyze it .
And make it useful.



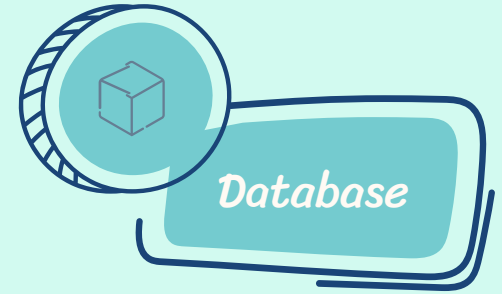
Predict the next 15
days Covid Cases
Using : fbprophet



Make plots & Bar
Using Data.
For better
Understanding

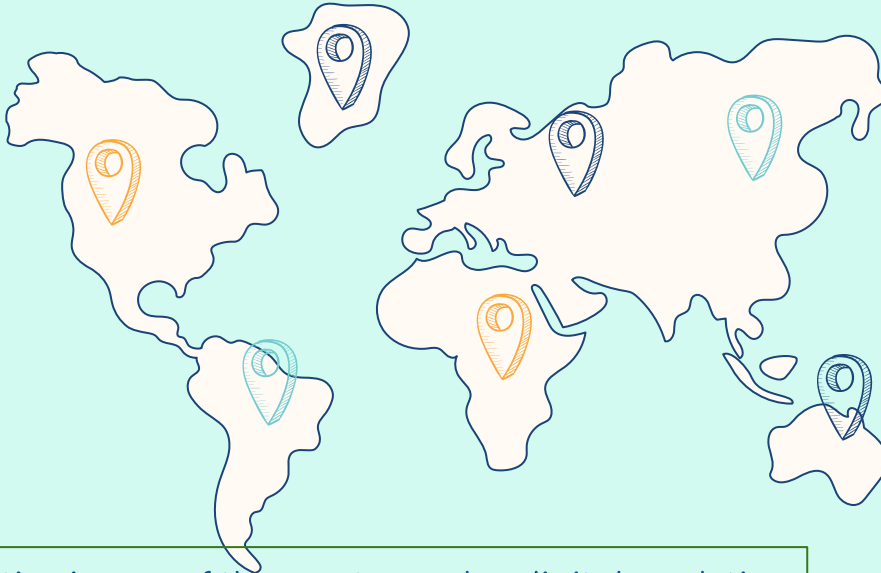


Create a Web app
Using Python-flask
(Static Website)



Database to store
Name & Email
Cloudant Database

Google Analytics



Google Analytics is one of the most popular digital analytics software. It is Google's free web analytics service that allows you to analyze in-depth detail about the visitors on your website. It provides valuable insights that can help you to shape the success strategy of your business.

Result 1

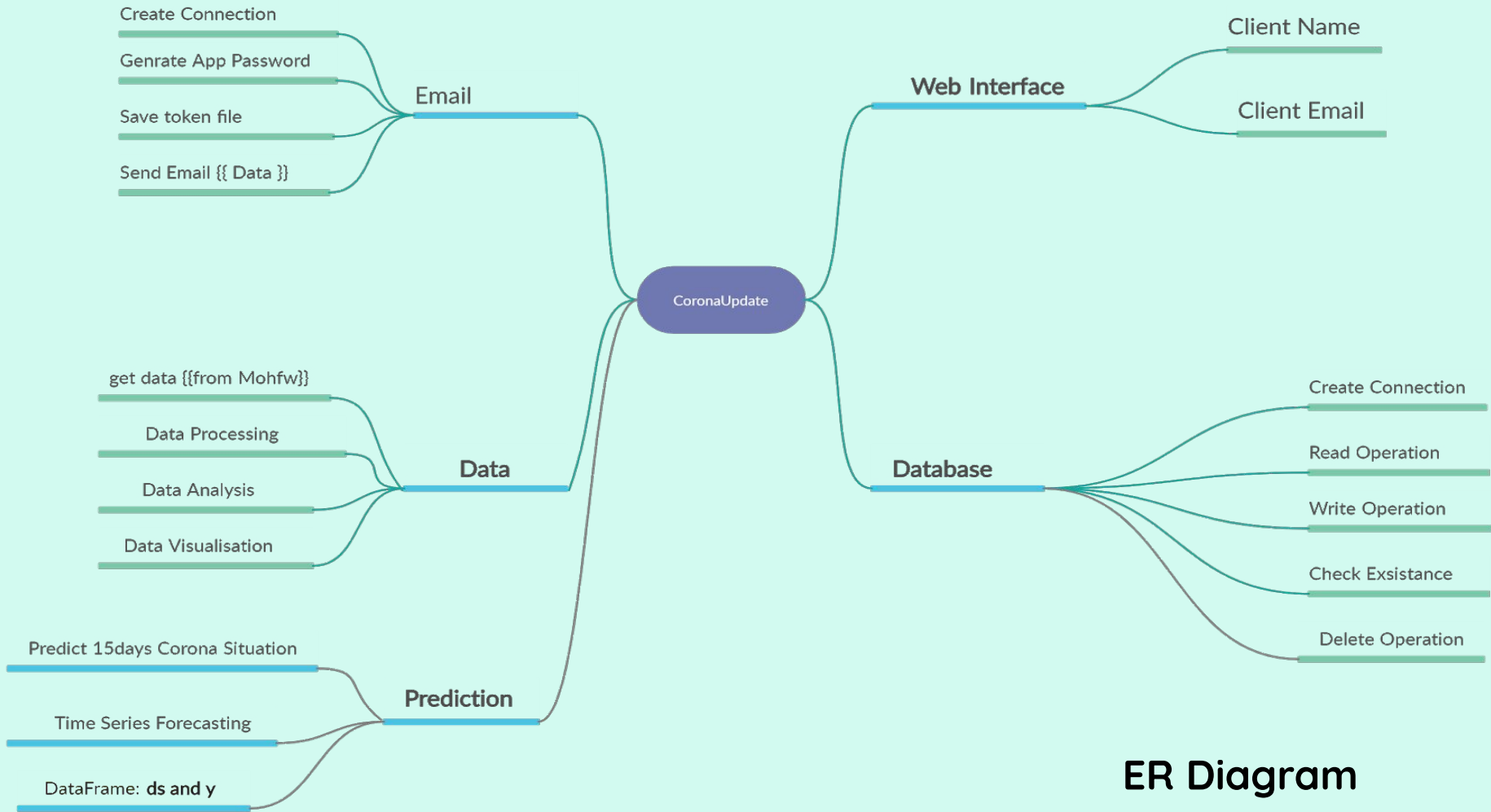
Real time Traffic
& Custom Reports

Result 2

Audience Details On
Your Site

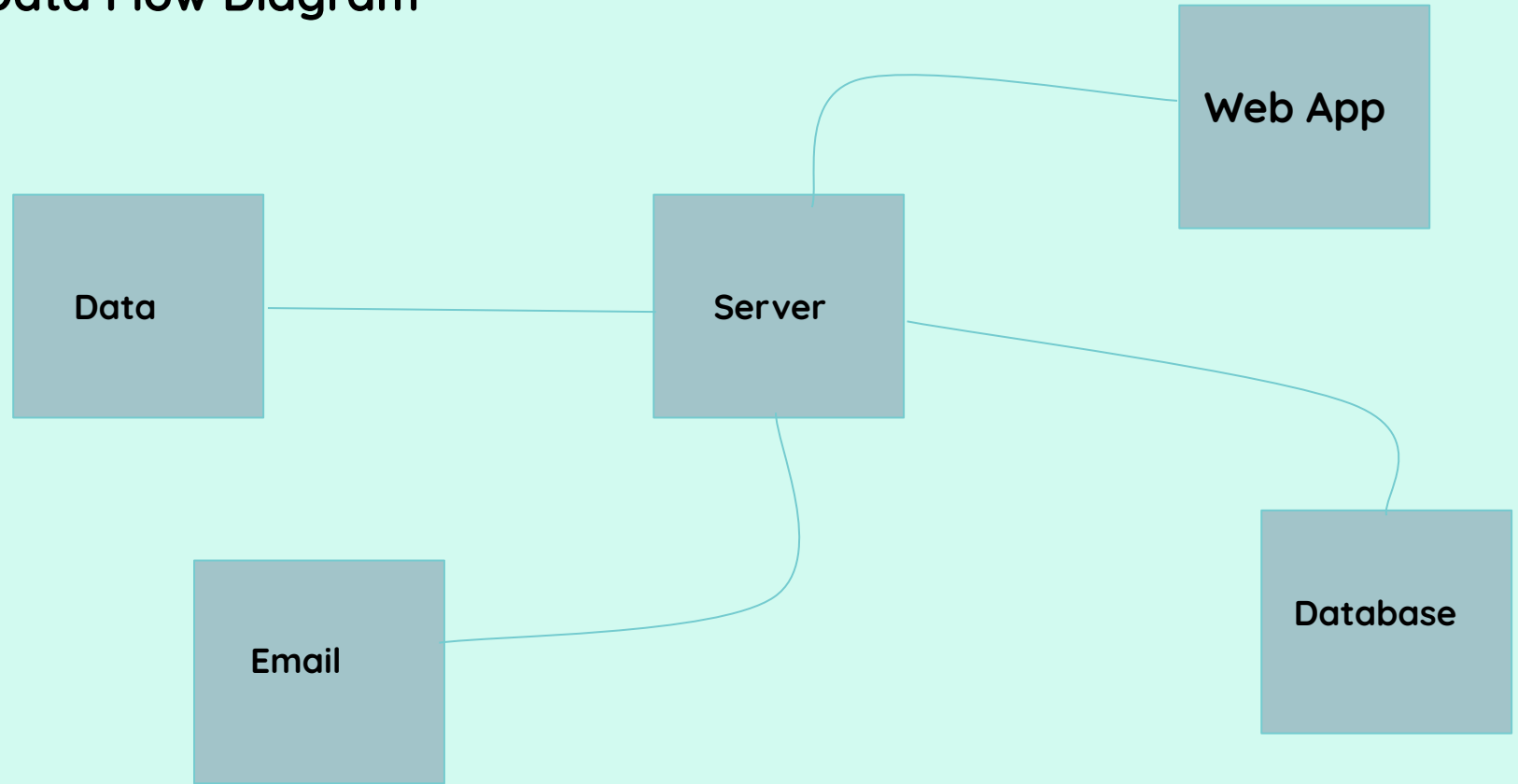
Result 3

Device
Category, Browser ,
Os & other Details

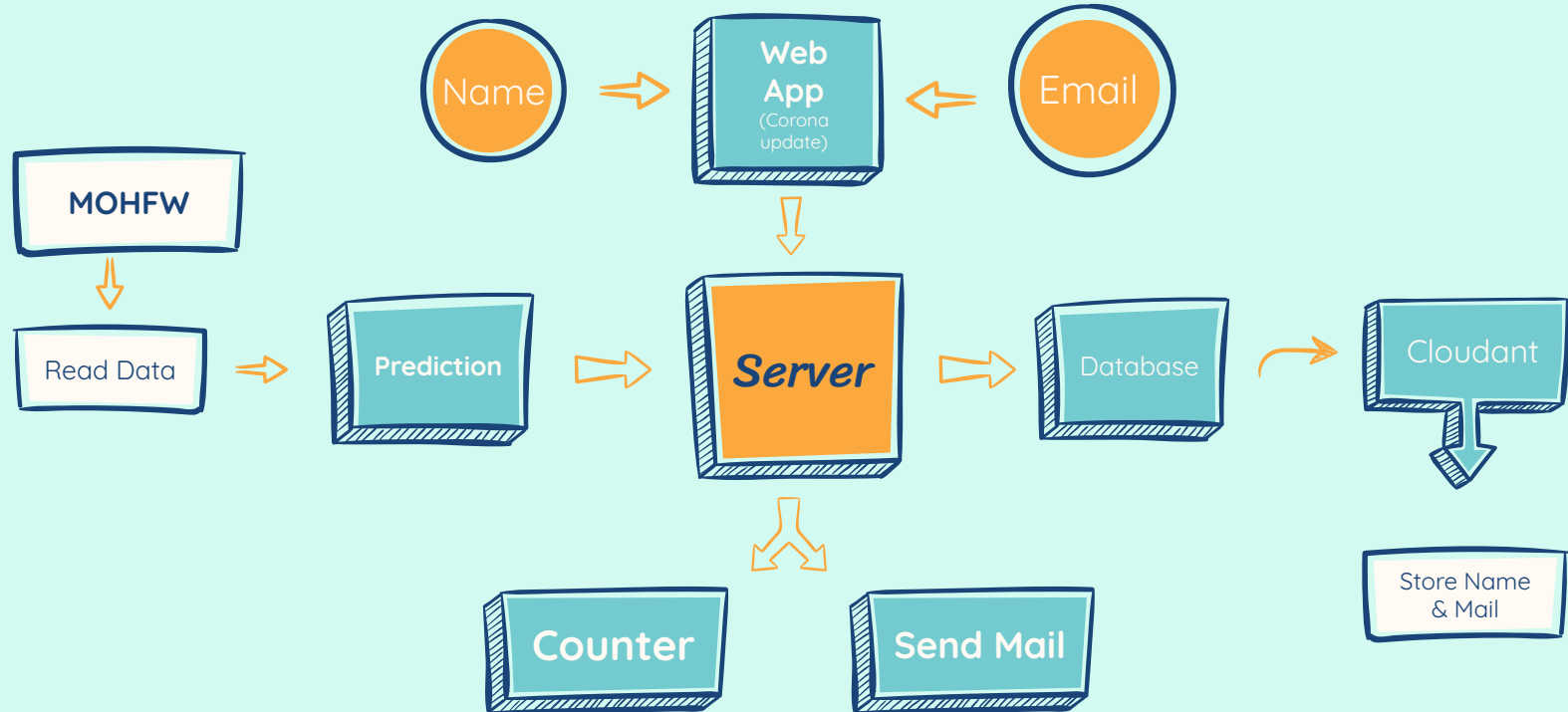


ER Diagram

Data Flow Diagram



Working Structure





06

Our Team

Ved Prakash Gupta

- B.tech 2nd Year
- IT Department



Utkarsh

- B.tech 2nd Year
- IT Department

