

# Flipr Hackathon 6.0

Full-Stack Web Development Task

Theme: COVID 19

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# Problem Statement

## Summary:

Create a website for the COVID-19.

The website will be going to include the following information:

- 1) Contact & Helpline Information
- 2) Notification & Advisory from the government Information.
- 3) Hospital Dashboard
- 4) Comparison of daily sample tests and confirmed cases of the patients.

## Points to be noted:

- There is no restriction on technologies, candidates can use any programming languages for developing the web portal.
- On the frontend side, the use of React, AngularJs, VueJs will attract the extra marks/weightage.
- Students can use or modify the pre-defined themes as per the need.
- After completing the whole task, students can add more features and functionalities by using covid19 APIs.
- In the tables you must have to show all the states data.

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## Tasks in detail:

### 1) Contact & Helpline Information :

Using the below API, fetch the contact helpline number information for all the States and Union Territories.

API URL: <https://api.rootnet.in/covid19-in/contacts>

Please show data in the **table form** for all the States and Union Territories available in the API.

Adding the below sample format for the reference whereas candidates can modify and enhance the structure based on their creativity.

**Sample Format:**

State Name	Helpline Number
Arunachal Pradesh	866 2410978
State Name (fetch from the API )	Contact Number (fetch from the API )

### 2) Notifications & advisories:

Using the below API fetch the notification and advisories information.

API URL: <https://api.rootnet.in/covid19-in/notifications>

Please show data in the **table form** for all the notification & advisories available in the API.

Adding the below sample format for the reference whereas candidates can modify and enhance the structure based on their creativity.

**Sample Format:**

Date	Notification Title	Link
02.08.2020	Revised guidelines for International Arrivals	<a href="https://www.mohfw.gov.in/pdf/RevisedguidelinesforInternationalArrivals02082020.pdf">https://www.mohfw.gov.in/pdf/RevisedguidelinesforInternationalArrivals02082020.pdf</a>

Date(fetch from the API)	Title(fetch from the API)	Link(fetch from the API)
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### 3) Hospitals Dashboards:

#### A. Hospitals & beds:

Using the below API fetch the rural and urban hospitals & beds information for all the states and Union Territories.

API URL: <https://api.rootnet.in/covid19-in/hospitals/beds>

Please show data in the **table form** for all the States and Union Territories available in the API.

Adding the below sample format for the reference whereas candidates can modify and enhance the structure based on their creativity.

State Name	Rural Hospitals	Rural Beds	Urban Hospitals	Urban Beds	Total Hospitals	Total Beds (State Wise)
Arunachal Pradesh	208	2136	10	268	218	2404
State Name (fetch from the API )	Count (fetch from the API )	Count (fetch from the API )	Count (fetch from the API )	Count (fetch from the API )	Count (fetch from the API )	Count (fetch from the API )
<b>Total Summary (INDIA)</b>	Count (fetch from the API )	Count (fetch from the API )	Count (fetch from the API )	Count (fetch from the API )	Count (fetch from the API )	Count (fetch from the API )

#### B. Medical Colleges & beds:

Using the below API fetch the rural and urban hospitals & beds information for all the states and Union Territories.

API URL: <https://api.rootnet.in/covid19-in/hospitals/medical-colleges>

Please show data in the **table form** for all the States and Union Territories available in the API.

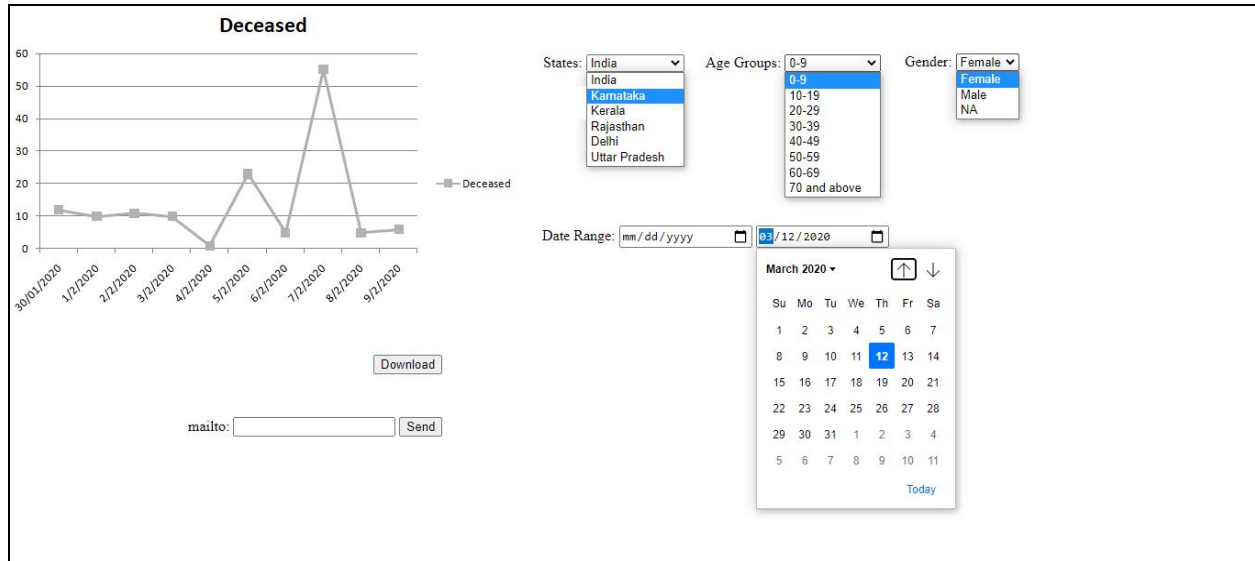
Adding the below sample format for the reference whereas candidates can modify and enhance the structure based on their creativity.

- **Create a filter** on “**State Name**” to select any States or Union Territory from a list of all the States & Union Territories.
- **Create another filter** on “**Type**” to select any ownership type from a list of all the types (Govt, Trust, Society, University, Govt-Society, Private).

State Name	Institute Name	City	Type	Admission Capacity	Hospital Beds
A & N Islands	Andaman & Nicobar Islands Institute of Medical Sciences, Port Blair	Port Blair	Govt.	100	460
State Name (fetch from the API )	Institute Name (fetch from the API )	City Name (fetch from the API )	Ownership Type(fetch from the API )	Count (fetch from the API )	Count (fetch from the API )

#### 4) Plot a graph for the **Deceased** person

- Upload data given in the csv file to the database.
- Create an API which includes the data points “**patient id, reported on, age estimate, gender, state, status**”.
- Through the API, plot a graph for the **Deceased** person.
- Also, include the filter of **State, Gender, Age Groups and Date Range**.
- Give the download button, to download the graph in pdf format.
- Give the text bar where the user can enter the mailing address and can also send the graph pdf on click.



### Points to be noted:

- Age group will distribution will be 0 - 9, 10 - 19, 20 - 29, 30 - 39, 40 - 49, 50- 59, 60- 69, 70 +
- Above shown is a sample graph.
- In case you don't know the backend, please at least create the respective design.

## Deployment Work :

- 1) Upload the code on any version control like github, gitlab, bitbucket
- 2) Deploy the frontend and backend code on any cloud platform like AWS, Microsoft Azure, Google Cloud, Heroku or any other platform.

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### Instructions :

- Submit the code on or before 10:00 PM, 14th September 2020.
- Upload the code in any version control like Git, Bitbucket, etc
- Please provide GitHub, GitLab, or bitbucket repo URL for your assignment.
- Add the instructions in your readme.md file to build and run the app.
- Share all the files and links in this google form -  
<https://docs.google.com/forms/d/1j2sx8tn8jBC1YxWx9cWgjVca5P58akO2BYH2FHg47OE>
- **You can refer to the Internet and Books but whatever you code you must understand because if you are going to be shortlisted for an interview then you must be able to explain the company officials about your code.**
- Extra points for using any Front-End frameworks (AngularJS,React.js,Vue.js)
- **For any queries regarding the project, mail us at [devops@flipr.ai](mailto:devops@flipr.ai) or post the query in whatsapp group.**