

COVID TRACKING PROJECT

Project Overview :

This project gives us information about the current status of COVID across India. Following details about COVID can be tracked using this project :

1. Current Status of COVID patients of India
 - a. Total Cases
 - b. Total Recovered
 - c. Total Active Cases
 - d. Total Deaths
2. Weather According to the selected Location and Temperature of that location.
3. News related to COVID published on that day.
4. Vaccination Slots available

User can select the state and then the district. They will see the different centers available for that state and district. They can then see the center details and know the availability of vaccination slots according to the age group.

They can also register their email id for any particular center, if the user want to get notified about the availability of vaccine slots.

Prerequisites :

1. JAVA 8
2. Spring Framework
3. Spring MVC
4. Springboot
5. Knowledge of RestTemplate/Microservices (For connection of APIs)
6. MySQL

Software needed :

1. Eclipse / STS

APIs used :

1. Weather (source: Rapid API) : <https://rapidapi.com/weatherapi/api/weatherapi-com>
2. Covid-19 (source : Rapid API) : <https://rapidapi.com/api-sports/api/covid-193>
3. News (source : Newsapi.org) : <https://newsapi.org/>
4. Cowin (source : API Setu) : <https://apisetu.gov.in/public/api/cowin>

STEPS TO IMPORT AND EXECUTE THE PROJECT

1. Import the project in Eclipse/STS. (File -> Import -> Browse -> Select Folder of project downloaded)
2. Create account (if not) on Rapid API and go to that link.
3. Copy the API_KEY and paste it in WebService class of com.gaurav.covid.service package in the variable with name RAPID_API_KEY.
4. Follow the same steps as above on NewsAPI and paste that in WebService class in the variable with name NEWS_API_KEY.
5. Set the EMAIL_FROM variable from the email id you want to send the mail.
6. Do ensure that nothing is running on PORT 8080 of your computer.

If it is giving an error as “Application failed to start” that means PORT 8080 is busy. Either you stop your server of PORT 8080 or write following thing in **application.properties**

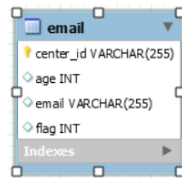
server.port = 8081 (or whichever port is free in your computer)

7. Set following things according to your system in application.properties:
 - a. spring.datasource.url = `jdbc:mysql://localhost:3306/covid`
 - b. spring.datasource.username = YOUR_DB_USERNAME
 - c. spring.datasource.password = YOUR_DB_PASSWORD
 - d. spring.mail.username=YOUR_EMAIL_ID_BY_WHICH_YOU_WANT_TO_SEND_MAIL
 - e. spring.mail.password=PASSWORD_GENERATED (by doing following steps)
 - i. Login to your account
 - ii. Click on your image on upper right corner (if working on chrome. May vary according to browser)
 - iii. Click on Manage your Google Account
 - iv. Click on Security
 - v. Click on App Password (if not able to see. Check after enabling 2-way authentication)
 - vi. Choose “Others” in select app dropdown
 - vii. Give App name according to you
 - viii. Click on Generate. A password will be generated.
 - ix. Use that password in application.properties
8. Set Database
9. Create Database with name “covid”. (if you want to change, make sure you are changing in application.properties too.)

Query : create database DB_NAME;

10. There are two ways to create the tables in DB.

a. Use query to create table with columns according to the below db structure



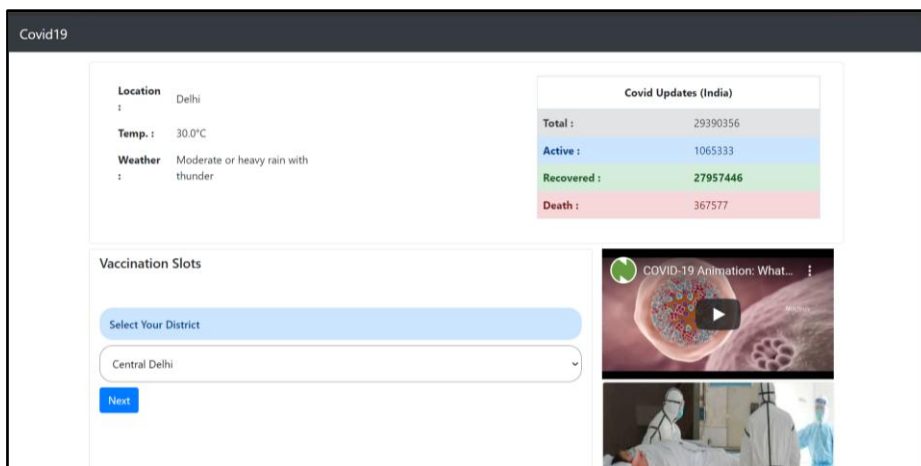
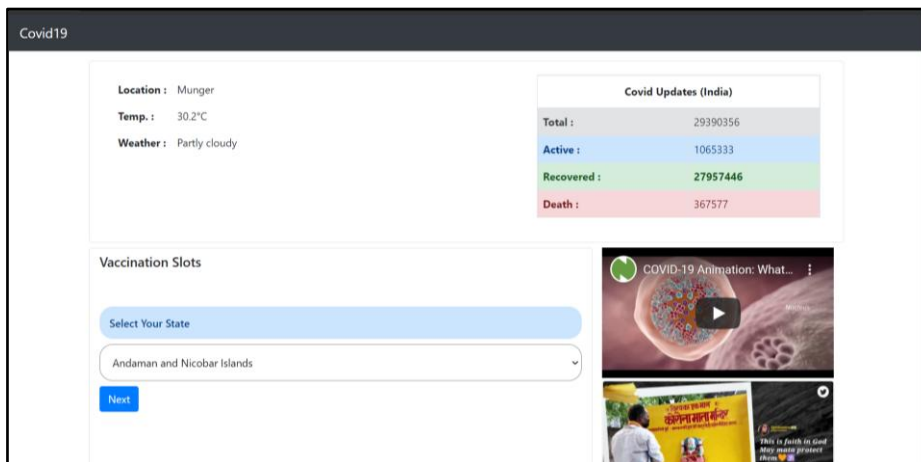
b. For the first time change as below in application.properties file:

spring.jpa.hibernate.ddl-auto = create

Make sure after running for the first time change it to

spring.jpa.hibernate.ddl-auto = validate

SCREENSHOTS OF PROJECT



Vaccination Slots

Age 18+

Age 45+

Center Details	12-06-2021	13-06-2021	14-06-2021	15-06-2021	16-06-2021	17-06-2021	18-06-2021	
<div>MAX PANCHSHEEL PARK SITE 4</div> <div>N 110 Block N Panchsheel Park</div> <div>Not Applicable: 110017</div>	<div>Booked</div> <div>COVISHIELD</div> <div>Dose 1: 0 Dose 2: 0</div>	NA	NA	NA	NA	NA	NA	Notify
<div>MAX PANCHSHEEL PARK SITE 4</div> <div>N 110 Block N Panchsheel Park</div> <div>Not Applicable: 110017</div>	NA	NA	NA	NA	NA	NA	NA	Notify
<div>MAX PANCHSHEEL PARK SITE 4</div> <div>N 110 Block N Panchsheel Park</div> <div>Not Applicable: 110017</div>	NA	<div>Booked</div> <div>COVISHIELD</div> <div>Dose 1: 0 Dose 2: 0</div>	NA	NA	NA	NA	NA	Notify
<div>MAX PANCHSHEEL PARK SITE 4</div> <div>N 110 Block N Panchsheel Park</div> <div>Not Applicable: 110017</div>	NA	NA	NA	NA	NA	NA	NA	Notify

<div>N 110 Block N Panchsheel Park</div> <div>Not Applicable: 110017</div>								
<div>MAX PANCHSHEEL PARK SITE 4</div> <div>N 110 Block N Panchsheel Park</div> <div>Not Applicable: 110017</div>	NA	NA	<div>122</div> <div>available</div> <div>COVISHIELD</div> <div>Dose 1: 122 Dose 2: 0</div>	NA	NA	NA	NA	Notify
<div>MAX PANCHSHEEL PARK SITE 4</div> <div>N 110 Block N Panchsheel Park</div> <div>Not Applicable: 110017</div>	NA	NA	NA	NA	NA	NA	NA	Notify
<div>MAX PANCHSHEEL PARK SITE 4</div> <div>N 110 Block N Panchsheel Park</div> <div>Not Applicable: 110017</div>	NA	NA	NA	<div>167</div> <div>available</div> <div>COVISHIELD</div> <div>Dose 1: 167 Dose 2: 0</div>	NA	NA	NA	Notify
<div>MAX PANCHSHEEL PARK SITE 4</div> <div>N 110 Block N Panchsheel Park</div> <div>Not Applicable: 110017</div>	NA	NA	NA	NA	NA	NA	NA	Notify
<div>MAX PANCHSHEEL PARK SITE 4</div> <div>N 110 Block N Panchsheel Park</div> <div>Not Applicable: 110017</div>	NA	NA	NA	NA	<div>177</div> <div>available</div> <div>COVISHIELD</div>	NA	NA	Notify

ILBS Session Site 3

D1 Ilbs Vasant Kunj Mang Delhi

Not Applicable: 110030

NA

NA

NA

NA

NA

NA

NA

Notify

ILBS Session Site 3

D1 Ilbs Vasant Kunj Mang Delhi

Not Applicable: 110030

NA

NA

NA

NA

NA

NA

NA

Notify

ILBS Session Site 3

D1 Ilbs Vasant Kunj Mang Delhi

Not Applicable: 110030

NA

NA

NA

NA

NA

NA

NA

Notify

COVID-19 Animation: What...

Covid-19 lockdown in Bihar again?

Here's what CM Nitish Kumar said - Hindustan Times

24x7 Helpline: 1075 or

Video on Covid 19 awaren...

Subscribe with Us

X

Rajiv Gandhi Cancer Cen SITE 2

Mahinder Kumar Jain Marg Gautam Nagar New Delhi 110049

Not Applicable 1100196

Close

Subscribe

Covid Updates (India)	
Total :	29390356
Active :	1065333
Recovered :	27957446
Death :	367577

[Reply](#) [Forward](#)

[Reply](#) [Forward](#)