



DEPARTMENT OF COMPUTER SCIENCE

Project developed by:

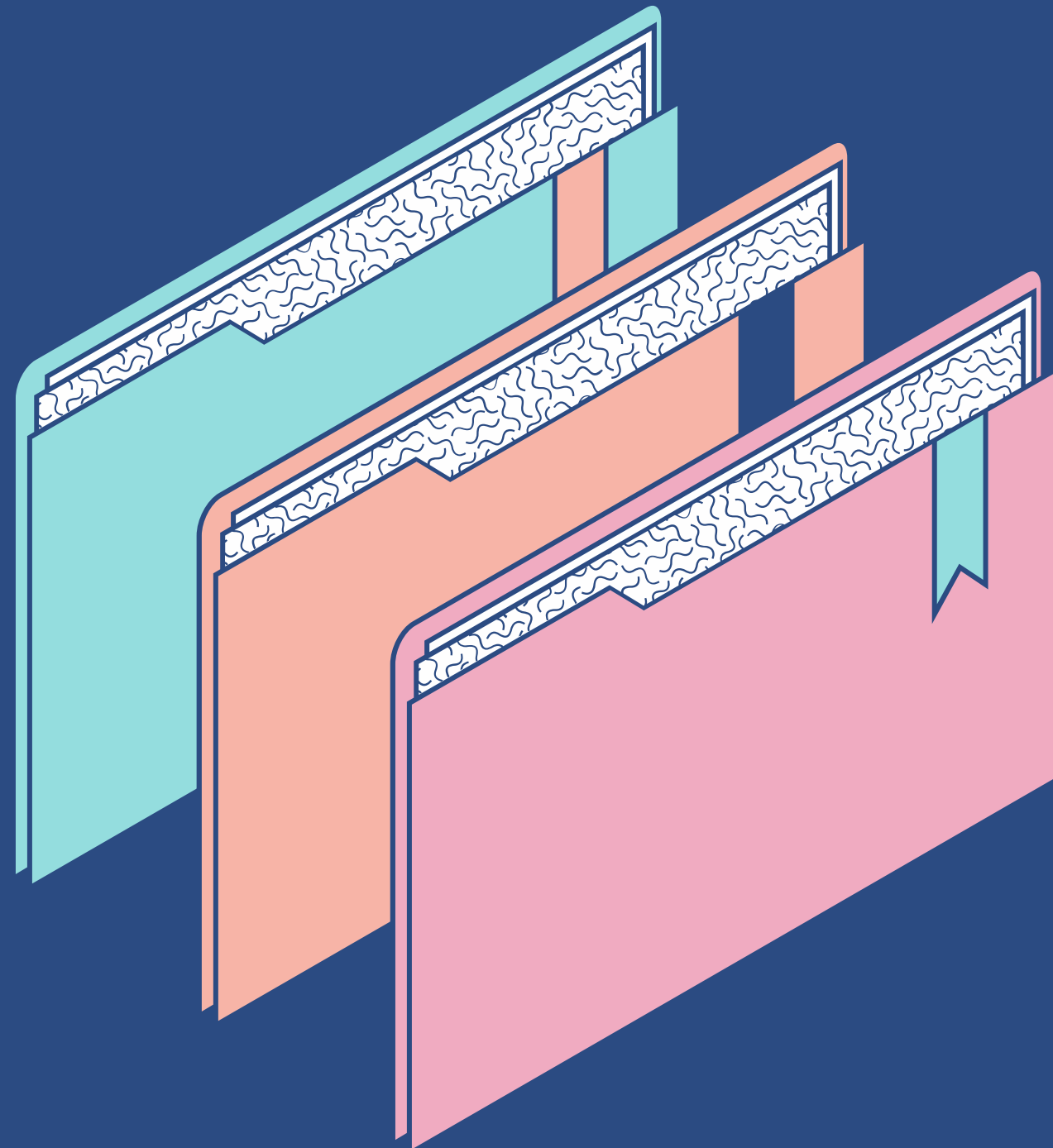
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Under the guidance of:

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Presented by group 22

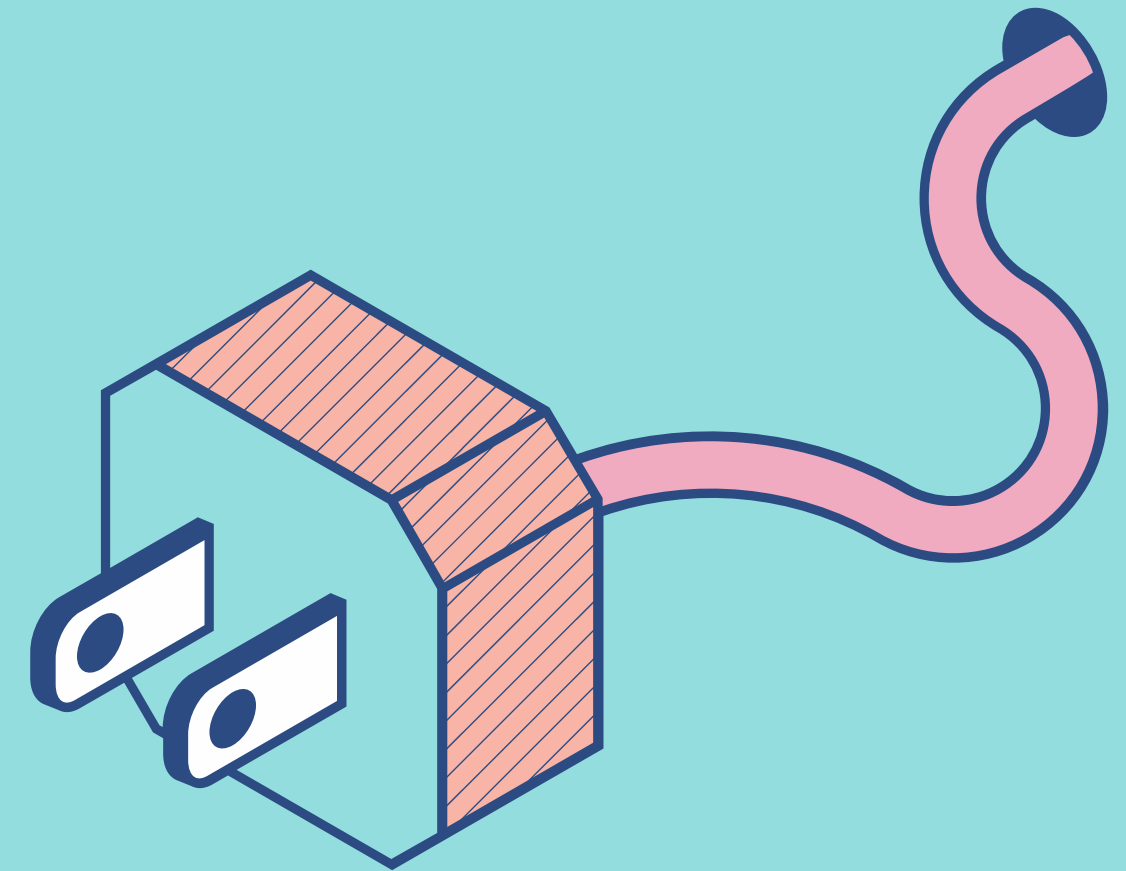


Outline for presentation

- Introduction
- Motivation
- Technologies used
- Developments
- Modules
- Conclusion
- References

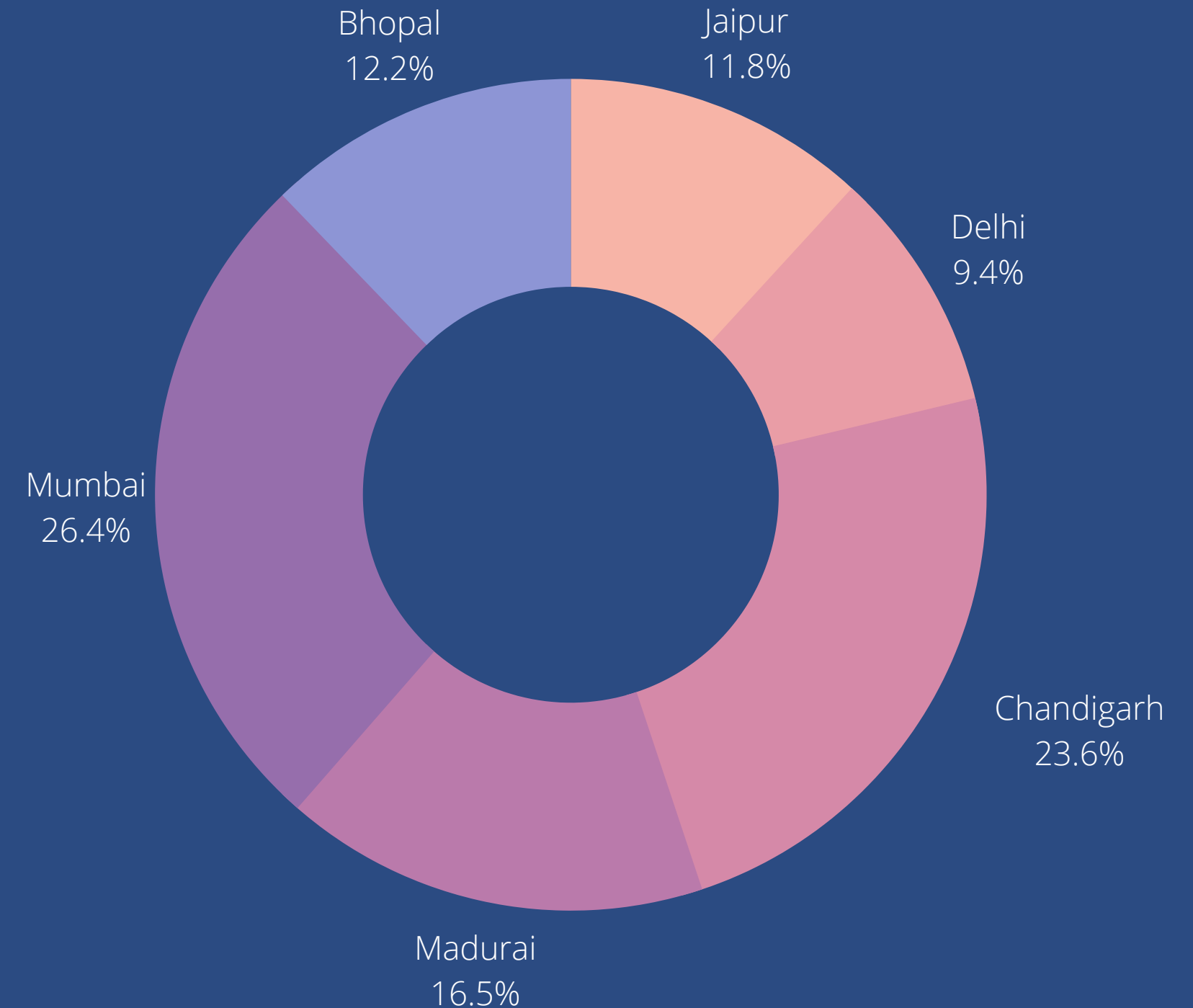
Introduction

This project aims to gather the data on the Covid-19 virus from various resources and databases on the internet via their APIs and then display the data in a visually understandable format such as graphs, pie charts, and doughnuts.



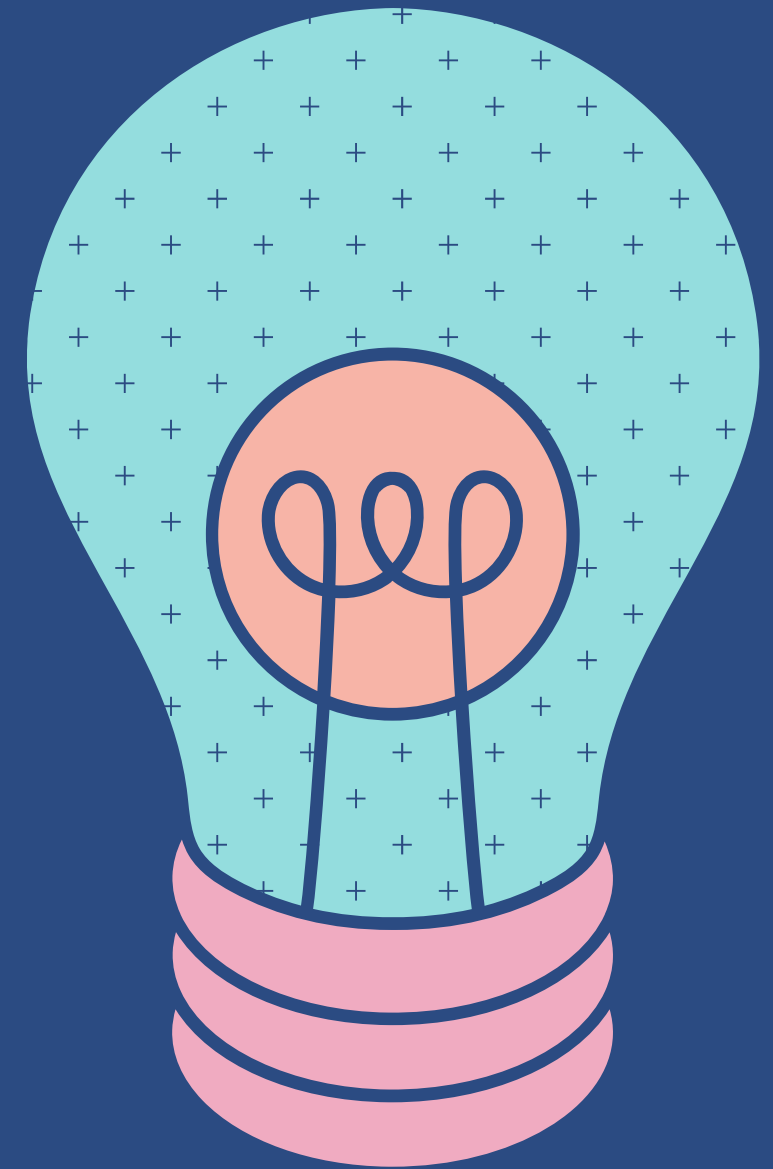
Motivation

- Understand the change in number of Covid-19 cases across various states
- Since visual representation is easy to understand for people, a graph based display system will prove to be really advantageous in observing the trends
- Creating a time based system that will help people observe and understand the number of cases at different points of time in a year

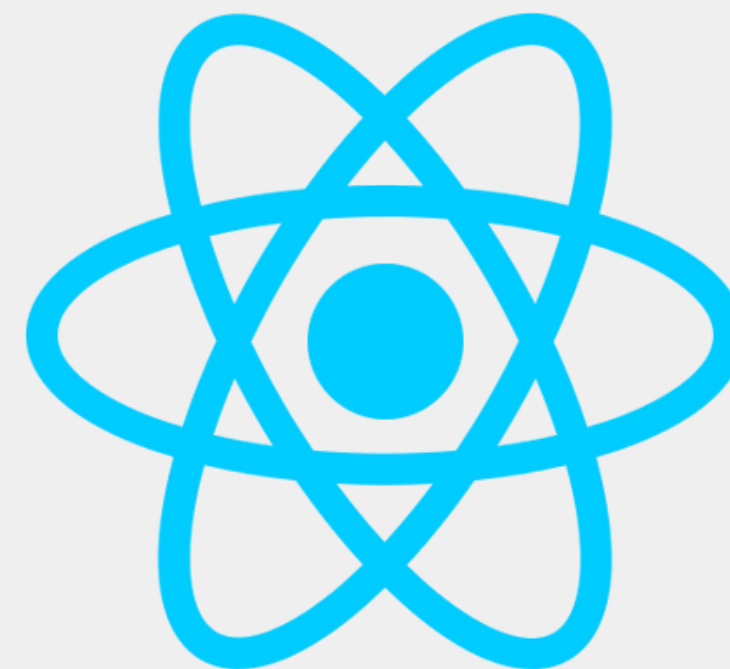


Technologies Used

THE FOLLOWING TECHNOLOGIES HAVE
BEEN USED TO DEVELOP THE PROJECT



express



Developments

1 ————— 2 ————— 3 ————— 4

Finding a working API with recent data

The past APIs were either non-functional or had an extremely old database. We found one with recent data

Testing of API using Postman

APIs were tested successfully using postman on various queries and parameters

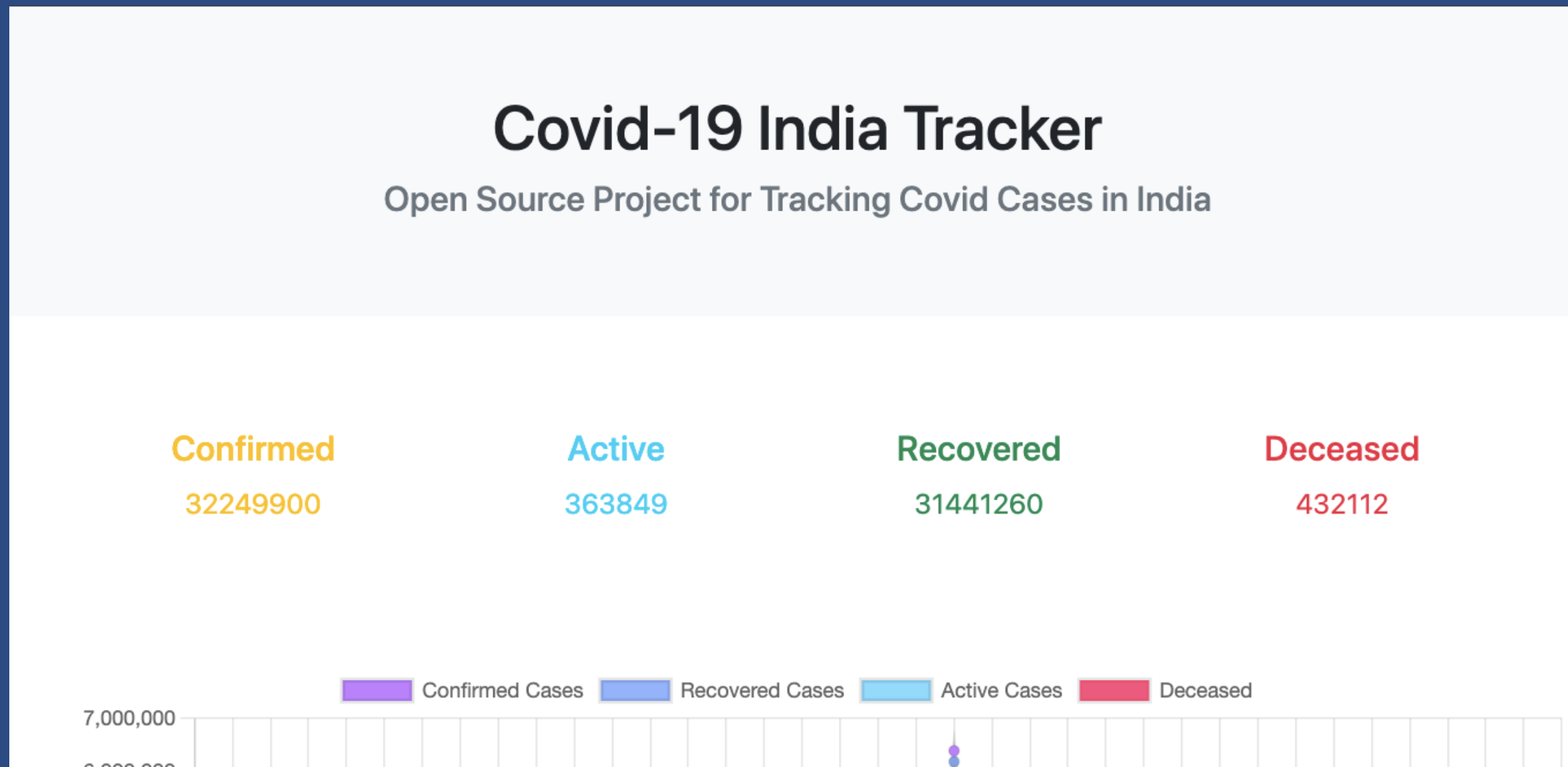
Integration of API in the project

First integration resulted in errors with the data not being parsed by an in-build node method which was "parse" method that was later replaced with "fetch" method

Integration of the API data and the Chart.js library

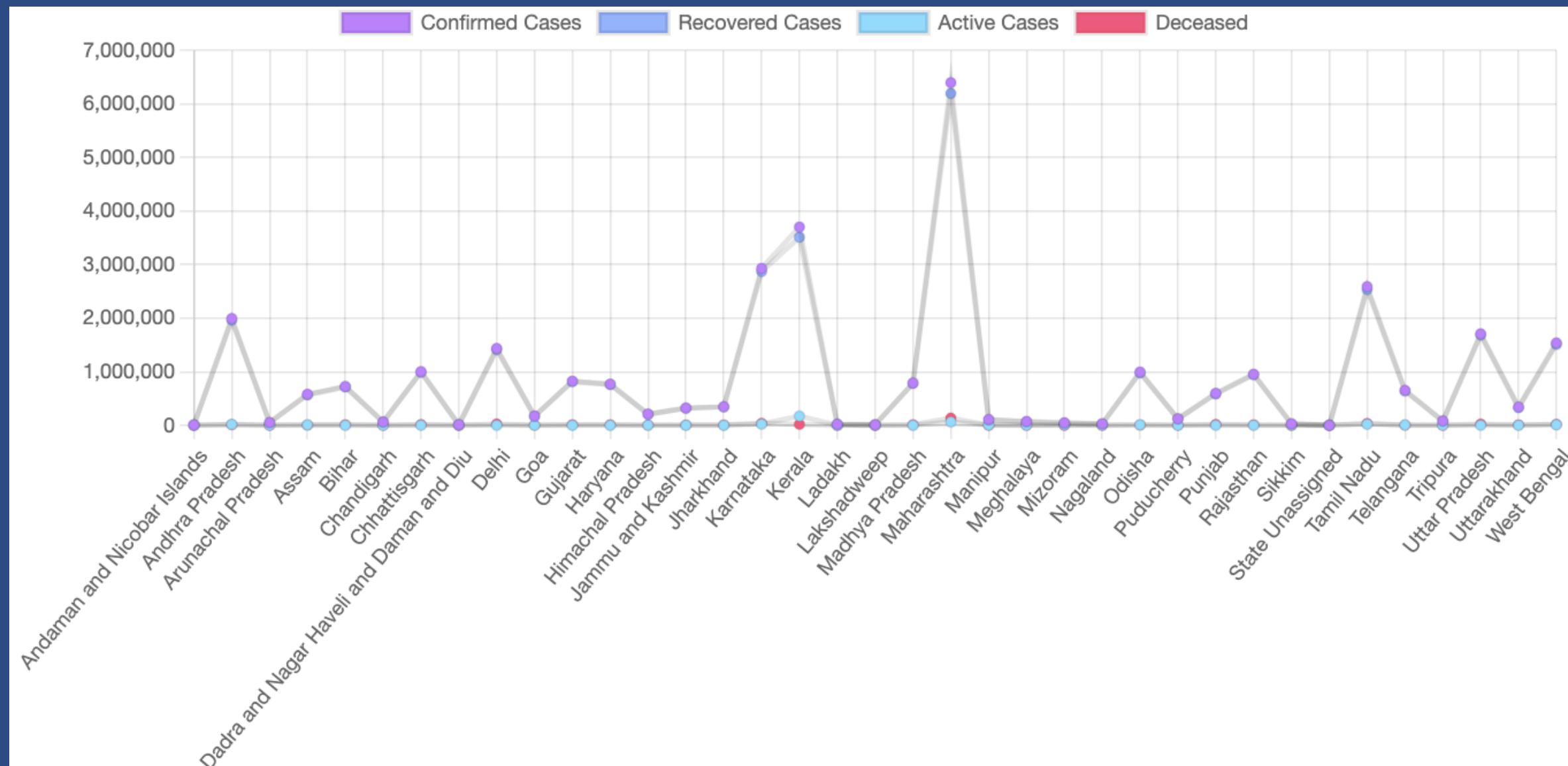
The covid API data was then integrated with chart.js API which was tested on statewide covid-19 data to create a basic graph based on four input scenarios

Landing page



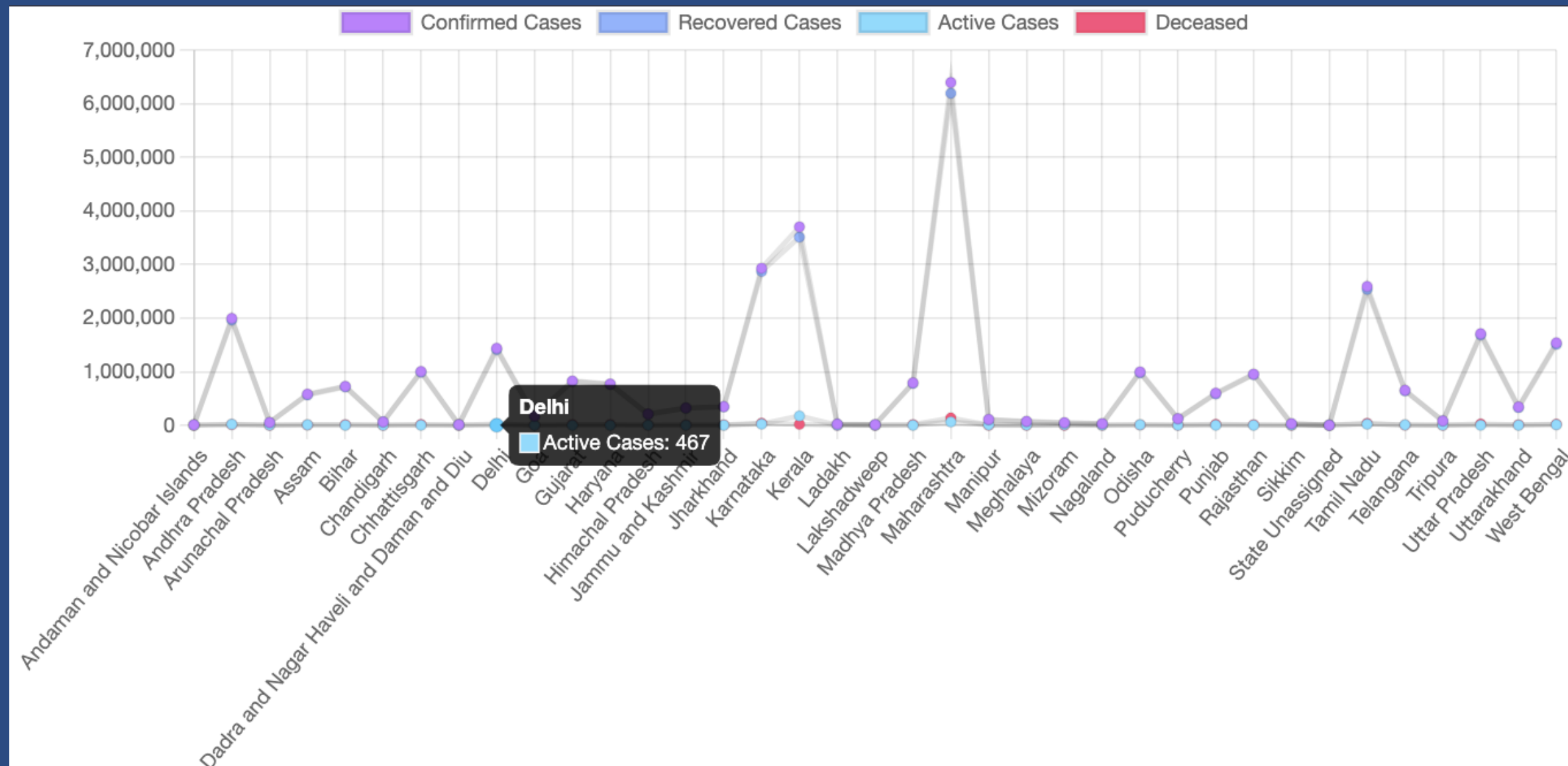
This is the landing page of the application. It displays the overall data from the whole nation. The numbers here are the total number of cases under different categories

Landing page



The second section of the landing page displays the statewide data in a line chart format. In the line chart the data can be seen as points respective to state names

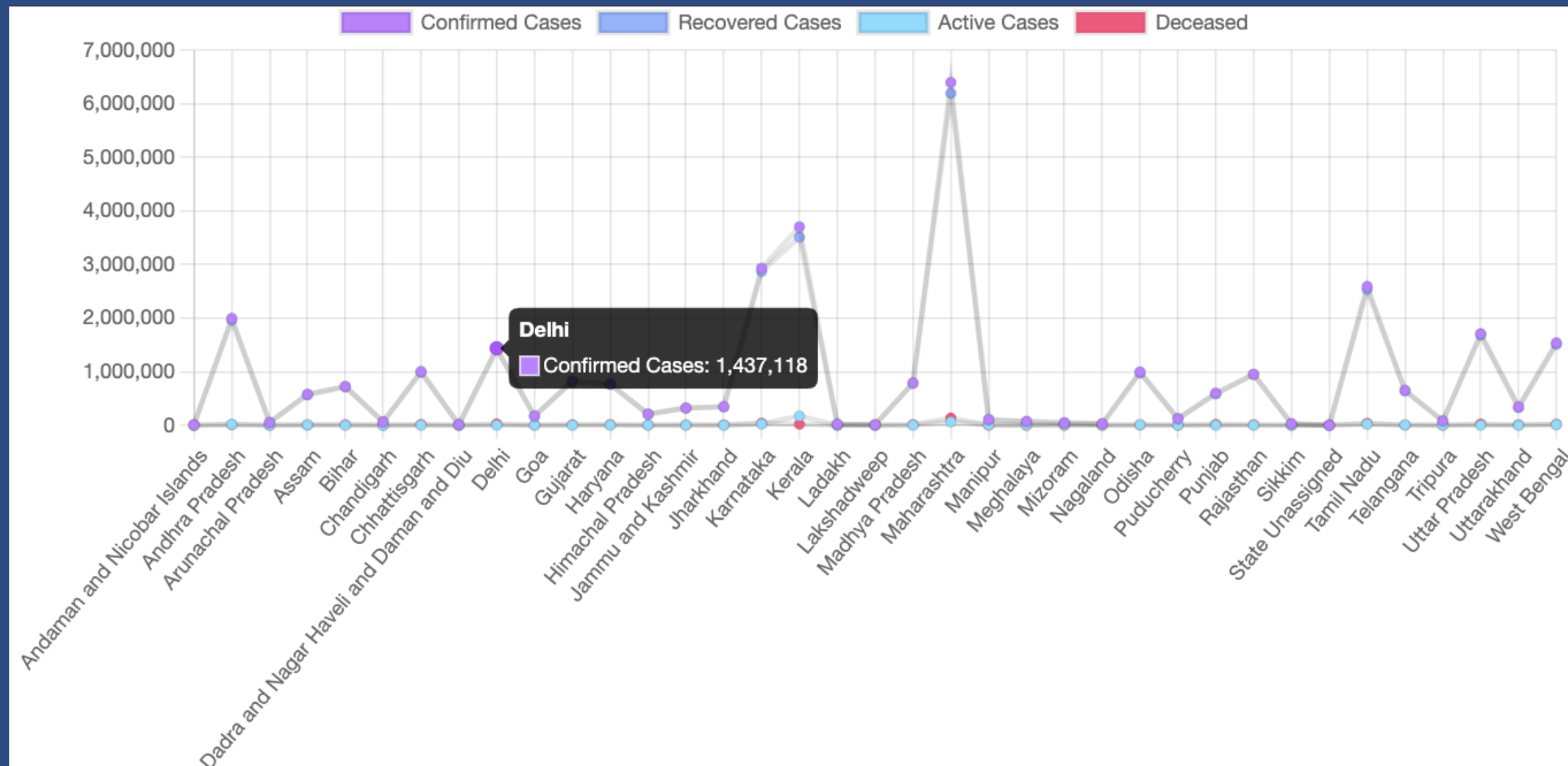
Landing page : Active Cases



If someone chooses to get data about a particular point then they can hover over it and the data is displayed

Here we can see the data of **Active Cases** in Delhi

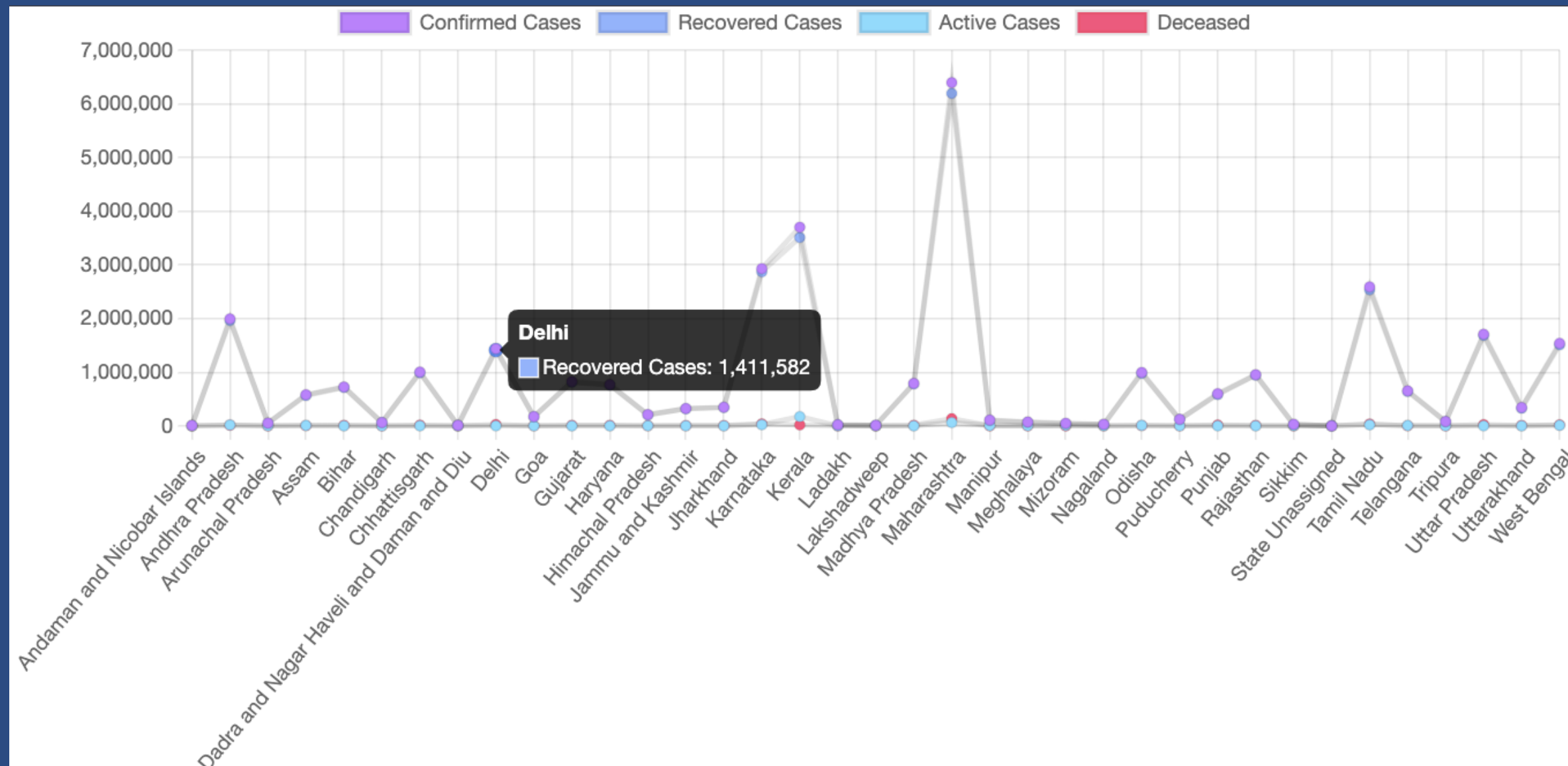
Landing page : Confirmed Cases



If someone chooses to get data about a particular point then they can hover over it and the data is displayed

Here we can see the data of **Confirmed Cases** in Delhi

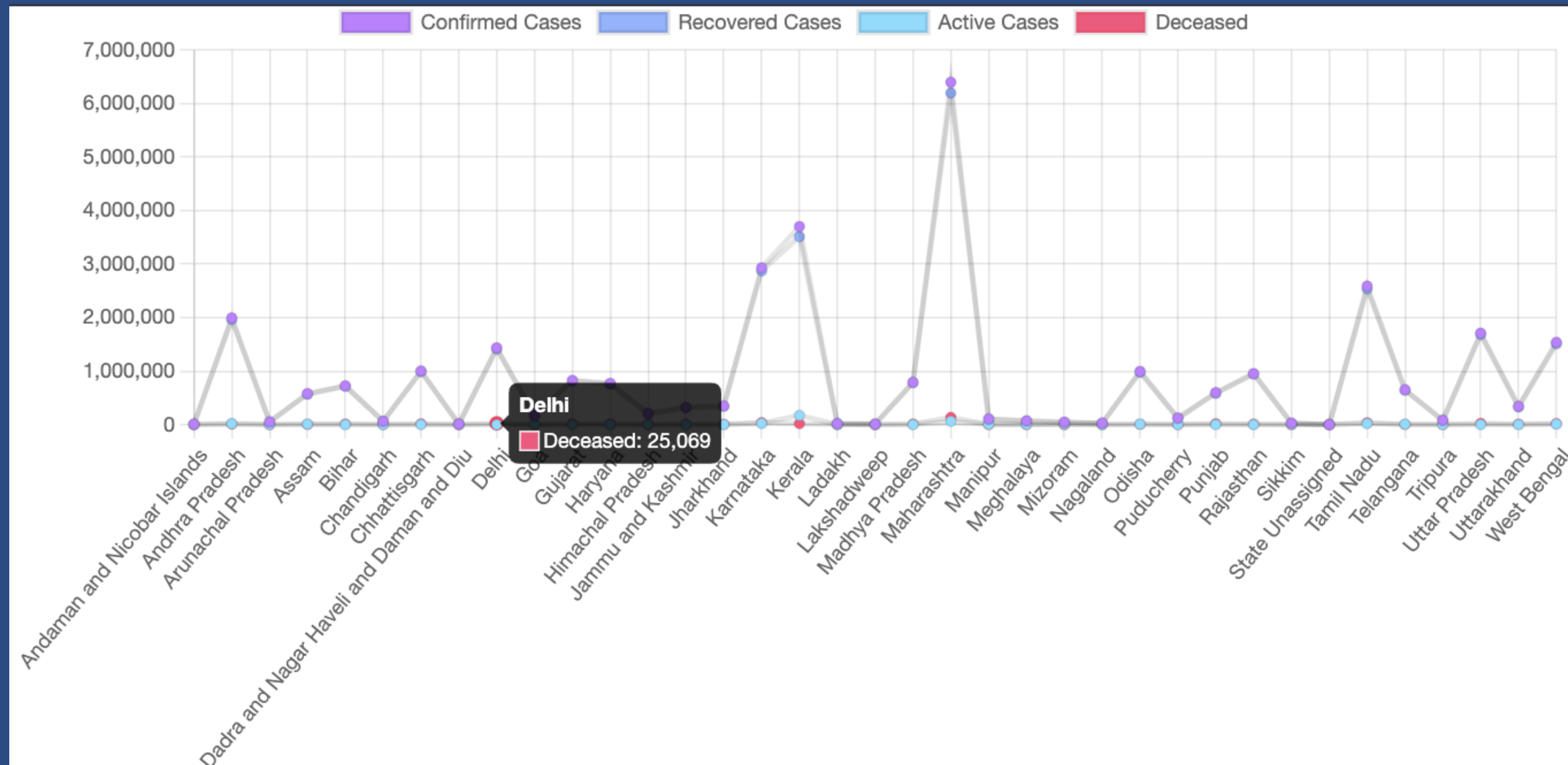
Landing page : Recovered Cases



If someone chooses to get data about a particular point then they can hover over it and the data is displayed

Here we can see the data of *Recovered Cases* in Delhi

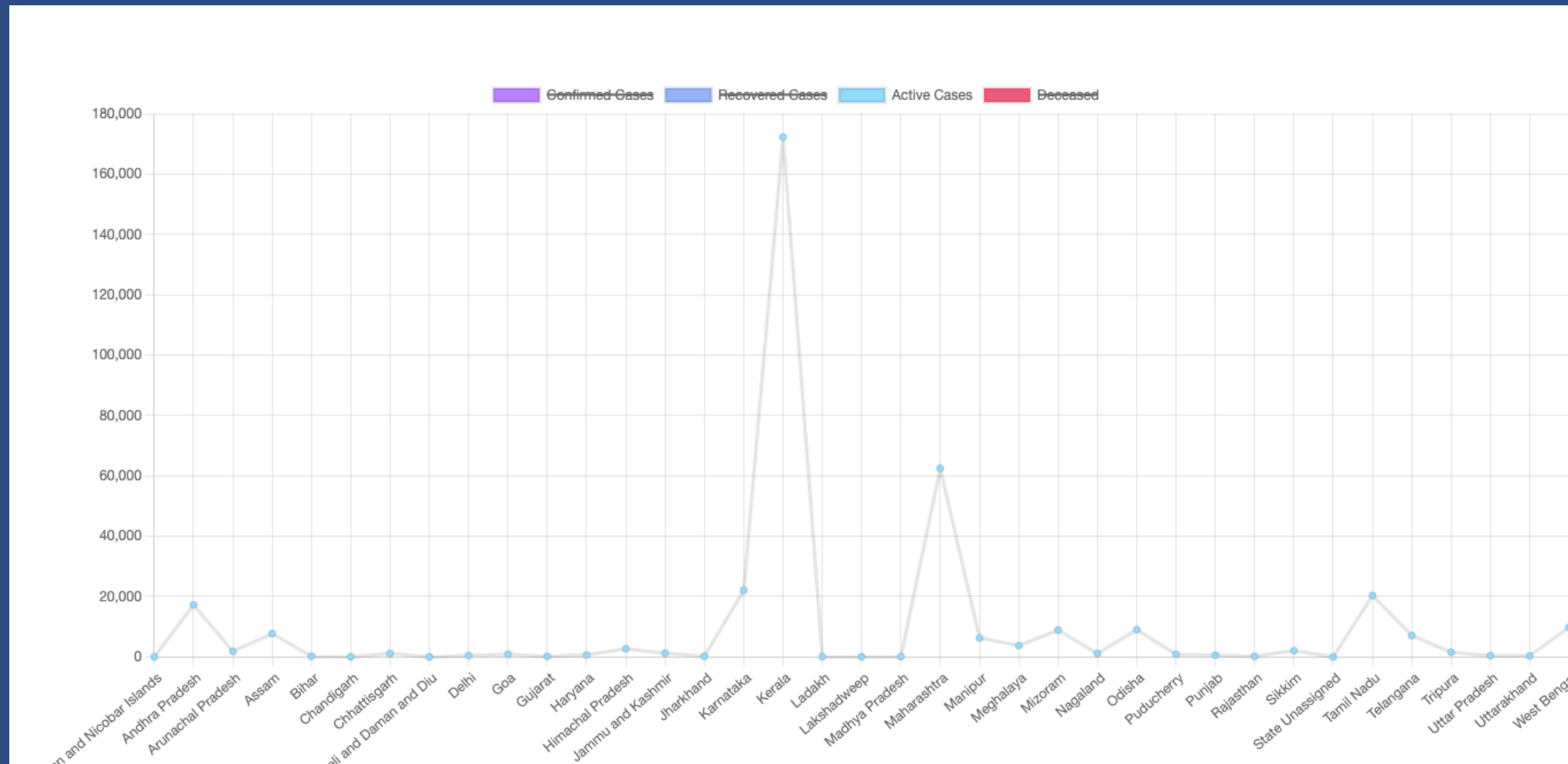
Landing page : Deceased Cases



If someone chooses to get data about a particular point then they can hover over it and the data is displayed

Here we can see the data of *Deceased Cases* in Delhi

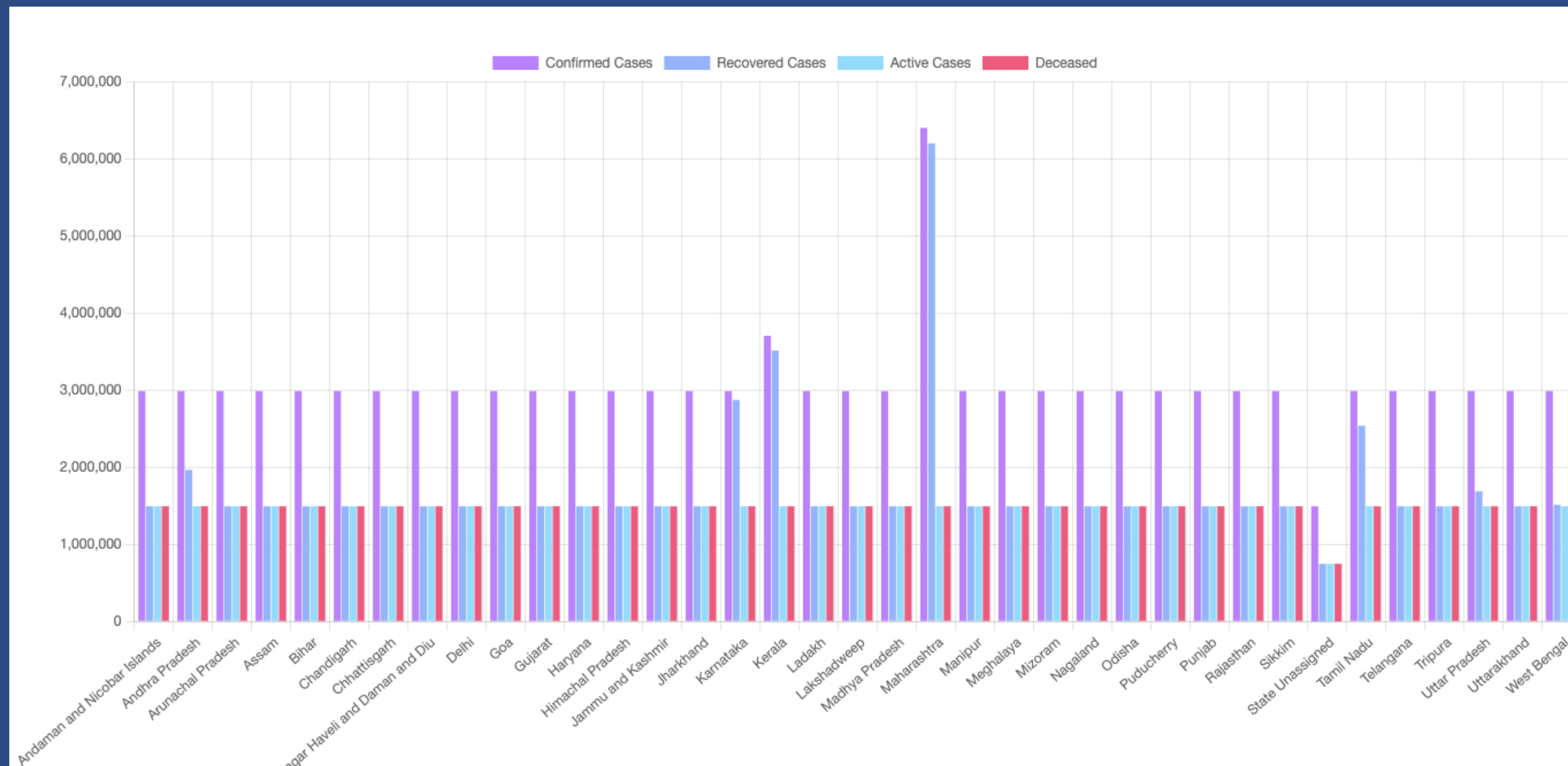
Viewing specific type of cases



In case someone chooses to view particular types of cases, they can do so by clicking on the options they would not like to view

Here *Confirmed* and *Active* have been clicked which has disabled viewing those options

Viewing options



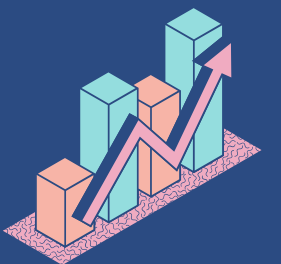
The users can also choose to view the data in the following two formats:

- Line
- Bar

(Currently hardcoded)

Conclusion

- The most important task being API integration has been done and data is being correctly fetched and parsed
- Migration to React remains and will be done soon
- Currently, the data is being displayed for a particular date, however, an option will be provided to users to select a date for which they would like to view the stats
- A list of states will be provided to the users from which they can choose to view the cases for a particular state and a click on that state name will take the user to a separate page for the selected state with its entire timeline being displayed
- Some feature integration remains and will be integrated soon



References

- [HTTPS://NODEJS.ORG/DOCS/LATEST-V15.X/API/HTTPS.HTML](https://nodejs.org/docs/latest-v15.x/api/https.html)
- [HTTPS://WWW.CHARTJS.ORG/DOCS/LATEST](https://www.chartjs.org/docs/latest)
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Thank
you!