

Project Name: Covid Tracker

Members:

- Tejas Siddaramaiah
- Ken Lin
- Daniel Kibatullin

Applications:

1. Countries Application: Country Statistics about COVID-19 and Daily Notifications
2. Core Application: Basic CSS and Templates

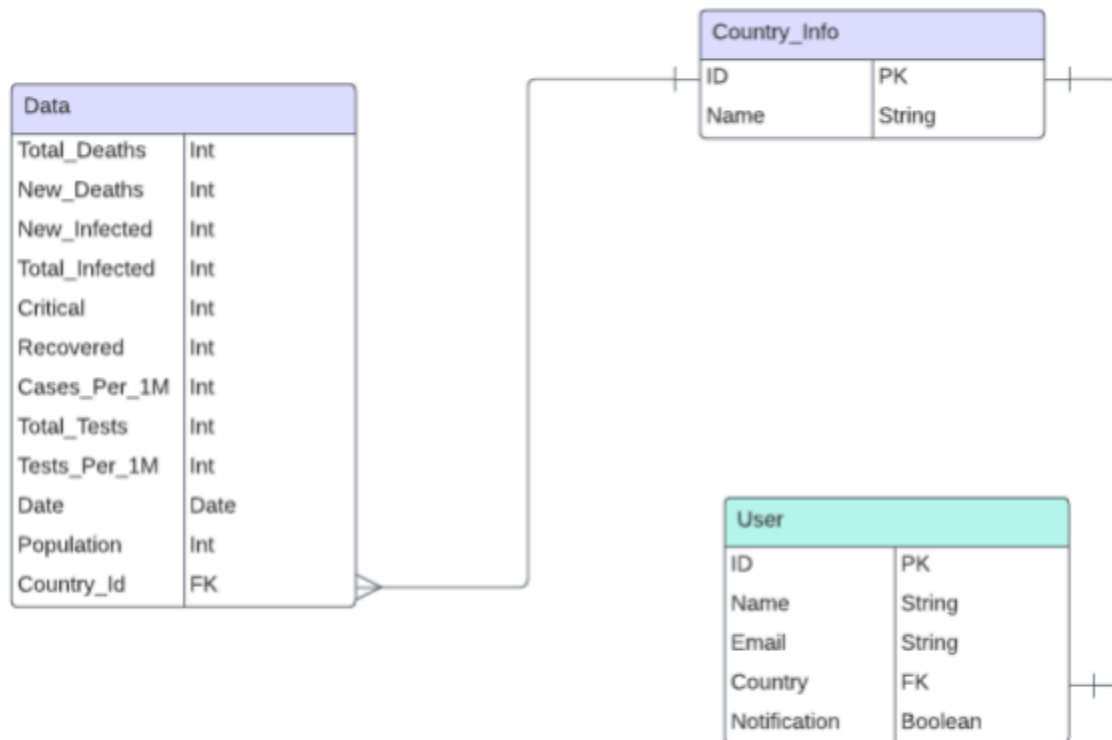
Components:

1. Dashboard Application:
 - Information on how to run the website and mentioning specific features.
2. Data Application:
 - Data about the deaths of a country at a given date: new, total, 1M_pop
 - Data about the tests of a country at a given date: new, total, 1M_pop
 - Data about the cases of a country at a given date: active, new, total, critical, recovered, 1M_pop
 - Charts and maps for visual representation.
3. Notification Application:
 - System for push notifications and email alerts.
 - Configuration options for frequency and types of notifications.
4. Information Application:
 - Health guidelines and safety measures related to COVID-19.
 - FAQs and expert advice on COVID-19.

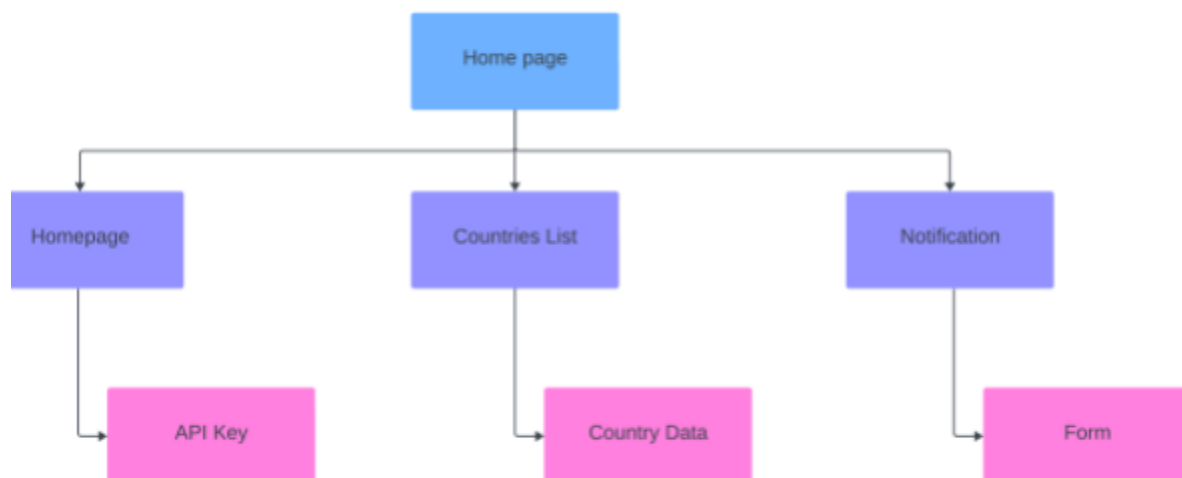
Relationships Between Components:

- The Data and Notification applications will be interconnected through the COVID-19 API data.
- The Information application will provide detailed insights that can be linked in notifications for further reading.

Database Design:



Site Map:



Task Breakdown:

1. Frontend Development:

- Modal UI: Daniel
- Navbar and Information Page UI: Ken

2. Backend Development:

- API Integration and Data Management: Tejas

3. Testing and QA:

- Functionality and Performance Testing: Tejas, Ken, Daniel

APIs:

- 1.) COVID-19 data API by API-SPORTS on RapidAPI
(<https://rapidapi.com/api-sports/api/covid-193>)

Base URL: 'https://api-sports.io/v1'

Rate Limit: 500,000 per month, 60 per minute

Endpoints and Usage:

1. Statistical Data Endpoint:

- Path: '/history'
- Method: 'GET'
- Parameters:
 - 'country': The name
 - 'date': The Date (Earliest Date Where We Get Data is 2/2/2023)
- Description: Retrieves COVID-19 statistics such as cases, deaths, and tests for a specific country and date.
- Response Format: JSON

2. Countries Data Endpoint:

- Path: '/countries'
- Method: GET
- Parameters: None
- Description: Retrieves a list of all available countries that can be used to fetch COVID-19 data.
- Response Format: JSON

Error Handling:

- Appropriate user-friendly messages will be displayed to the end-users in case of an API error.