# COVID-19 Vaccination Appointment Service API Documentation

### Overview

The COVID-19 Vaccination Appointment Service API allows patients to check the availability of vaccination appointment slots, book appointments, cancel appointments, and list all existing appointments.

#### Base URL

- Base URL: http://localhost:5000 (when running locally)

# **Endpoints**

GET /check\_availability

# **Description**

Check the availability of a vaccination appointment slot for a specific date and time.

#### Request

- URL Parameters:
- date (string, required): The date for the appointment in the format "YYYY-MM-DD".
- time (string, required): The time for the appointment in the format "HH:MM AM/PM".

#### Response

- Status Code: 200 OK
- Body: JSON object with the following fields:
- message (string): A message indicating the availability status.

#### POST /book\_appointment

# **Description**

Book a vaccination appointment slot for a specific date and time.

#### Request

- Body: JSON object with the following fields:
- date (string, required): The date for the appointment in the format "YYYY-MM-DD".
- time (string, required): The time for the appointment in the format "HH:MM AM/PM".

#### Response

- Status Code: 200 OK
- Body: JSON object with the following fields:
- message (string): A message indicating the result of the booking.
- status\_code (integer): HTTP status code (200).
- Status Code: 404 Not Found
- Body: JSON object with the following fields:
- message (string): A message indicating that the slot is not available or not found.
- status\_code (integer): HTTP status code (404).

POST /cancel appointment/{appointment id}

# **Description**

Cancel an existing vaccination appointment by providing the appointment ID.

#### Request

- URL Parameters:
- appointment\_id (integer, required): The ID of the appointment to cancel.

#### Response

- Status Code: 200 OK
- Body: JSON object with the following fields:
- message (string): A message indicating the result of the cancellation.
- status code (integer): HTTP status code (200).
- Status Code: 404 Not Found
- Body: ISON object with the following fields:
- message (string): A message indicating that the appointment with the provided ID was not found.
- status\_code (integer): HTTP status code (404).

GET /list\_appointments

#### **Description**

List all existing vaccination appointments.

# Response

- Status Code: 200 OK
- Body: JSON array containing a list of appointment objects. Each object has the following fields:
- id (integer): The unique ID of the appointment.
- date (string): The date of the appointment in the format "YYYY-MM-DD".
- time (string): The time of the appointment in the format "HH:MM AM/PM".
- available (boolean): Indicates whether the appointment slot is available.

# **Error Handling**

The API may return the following error responses:

- Status Code: 400 Bad Request

- Body: JSON object with