

## **API DOCUMENTATION**

### **Citizen Controller**

#### **1. Get All Citizens**

- Endpoint: `/api/citizen`
- Method: `GET`
- Description: Retrieves a list of all citizens.
- Response:
  - 200 OK: Returns a list of citizen objects.

#### **2. Get Citizen by ID**

- Endpoint: `/api/citizen/{citizenId}`
- Method: `GET`
- Path Variable: `citizenId` (String) - The ID of the citizen to retrieve.
- Description: Retrieves details of a specific citizen by their ID.
- Response:
  - 200 OK: Returns a citizen object.
  - 404 Not Found: If no citizen with the specified ID is found.

#### **3. Register New Citizen**

- Endpoint: `/api/citizen/register`
- Method: `POST`
- Request Body: Citizen object
- Response:
  - 201 Created: Returns the newly created citizen object.
  - 400 Bad Request: If a citizen with the same Aadhaar number already exists or if the request body is invalid.

#### 4. Delete Citizen

- Endpoint: `/api/citizen/{citizenId}`
- Method: `DELETE`
- Path Variable: `citizenId` (String) - The ID of the citizen to delete.
- Description: Deletes a specific citizen by their ID if the difference between the current date and the `last\_vaccinated` date is greater than or equal to 120 days.
- Response:
  - 200 OK: Returns a message confirming the deletion.
  - 404 Not Found: If no citizen with the specified ID is found.

#### 5. Get Citizen Status by ID

- Endpoint: `/api/citizen/status/{citizenId}`
- Method: `GET`
- Path Variable: `citizenId` (String) - The ID of the citizen.
- Description: Retrieves the status of a specific citizen by their ID.
- Response:
  - 200 OK: Returns the status of the citizen.
  - 404 Not Found: If no citizen with the specified ID is found.

#### 6. Get All Citizens by Status

- Endpoint: `/api/citizens/status/{status}`
- Method: `GET`
- Path Variable: `status` (String) - The status to filter citizens by.
- Description: Retrieves a list of citizens filtered by their status.
- Response: - 200 OK: Returns a list of citizen objects matching the status.

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## **Dose Controller**

### **1. Get Dose Details by Citizen ID**

- Endpoint: `/api/dose/{citizenId}`
- Method: `GET`
- Path Variable: `citizenId` (String) - The ID of the citizen.
- Description: Retrieves dose details for a specific citizen by their ID.
- Response:
  - 200 OK: Returns a list of dose objects.
  - 404 Not Found: If no dose records are found for the specified citizen ID.

### **2. Get Dose Details by Dose ID**

- Endpoint: `/api/dose/details/{doseId}`
- Method: `GET`
- Path Variable: `doseId` (String) - The ID of the dose.
- Description: Retrieves dose details by dose ID.
- Response:
  - 200 OK: Returns a dose object.
  - 404 Not Found: If no dose record is found for the specified dose ID.

### **3. Delete Dose by Dose ID**

- Endpoint: `/api/dose/{doseId}`
- Method: `DELETE`

- Path Variable: `doseId` (String) - The ID of the dose to delete.
- Description: Deletes a specific dose by its ID.
- Response:
  - 200 OK: Returns a message confirming the deletion.
  - 404 Not Found: If no dose record is found for the specified dose ID.

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## **Vaccine Controller**

### 1. Get All Vaccines

- Endpoint: `/api/vaccine`
- Method: `GET`
- Description: Retrieves a list of all vaccines.
- Response:
  - 200 OK: Returns a list of vaccine objects.

### 2. Get Certificate by Citizen ID

- Endpoint: `/api/vaccine/certificate/{citizenId}`
- Method: `GET`
- Path Variable: `citizenId` (String) - The ID of the citizen.
- Description: Retrieves the vaccination certificate ID for a specific citizen by their ID.
- Response:
  - 200 OK: Returns the certificate ID as a string.
  - 404 Not Found: If no certificate is found for the specified citizen ID.

### 3. Get Vaccine Details by Citizen ID

- Endpoint: `/api/vaccine/{citizenId}`
- Method: `GET`
- Path Variable: `citizenId` (String) - The ID of the citizen.
- Description: Retrieves vaccine details for a specific citizen by their ID.
- Response:
  - 200 OK: Returns a vaccine object.
  - 404 Not Found: If no vaccine record is found for the specified citizen ID.