



MAPD713-2017F

Project M1

Group HeartBit

Submitted By

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Project Description

This project aims to develop a system for managing patients' clinical information. The service nomenclature is REST API. The REST API service will allow health care providers to view and monitor patient information that is stored in the system. The REST API service will allow health care providers to view detailed health information for a specific patient. The REST API service will allow health care providers to find any patient in critical condition.

The following information will be stored in the REST API service:

- Date/time, Type of Data, Reading/Value
- Data Type (healthy values in parentheses):
 - Glucose (70 to 99 mg/dL)
 - Red Blood Cells (4.3 to 5.7 mi/mm³)
 - White Blood Cells (3.500 to 10.500/mm³)
 - Platelet (150.000 to 450.000/mm³)
 - Iron (49 to 181 ug/dL)

Use Cases / Functionality

Add Patient

The health care provider will input information to add a new patient to the system

method: POST

route: /patients

Preconditions: None.

Post-conditions:

1. The patient will be created in the system.
2. The patient will have an unique ID

Requirements:

1. Name was provided.

View Patient

The system will provide data about the patient.

method: GET

route: /patients/:id

Preconditions:

1. The given patient must have been previously added in the system.

Post-conditions:

1. The system will provide data about the patient.

Requirements:

1. Patient's ID will be provided.

List all Patients

The system will provide data about all patients in the system.

method: GET

route: /patients

Preconditions: None

Post-conditions:

1. The system will provide data about all patients in the system.

Requirements: None

Add Patient Record

The health care provider will input a new record for the given patient

method: POST

route: /patients/:id/records

Preconditions:

1. The given patient must have been previously added in the system.
2. Patient's ID will be provided.

Post-conditions:

1. The record will be created in the system.
2. The record will have an unique ID.

Requirements:

1. Patient's ID will be provided.

View Patient's Records

The system will provide all records about the given patient

method: GET

route: /patients/:id/records

Preconditions:

1. The given patient must have been previously added in the system.

Post-conditions:

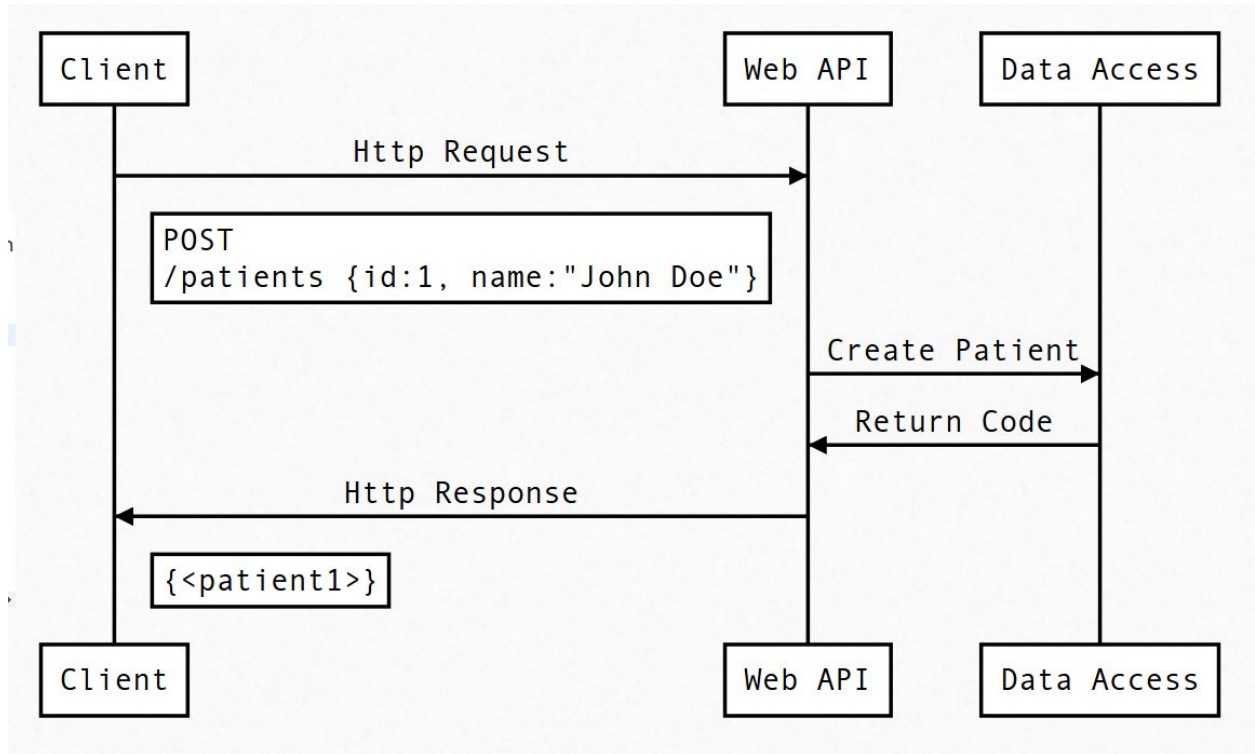
1. The system will provide all records about the given patient.

Requirements:

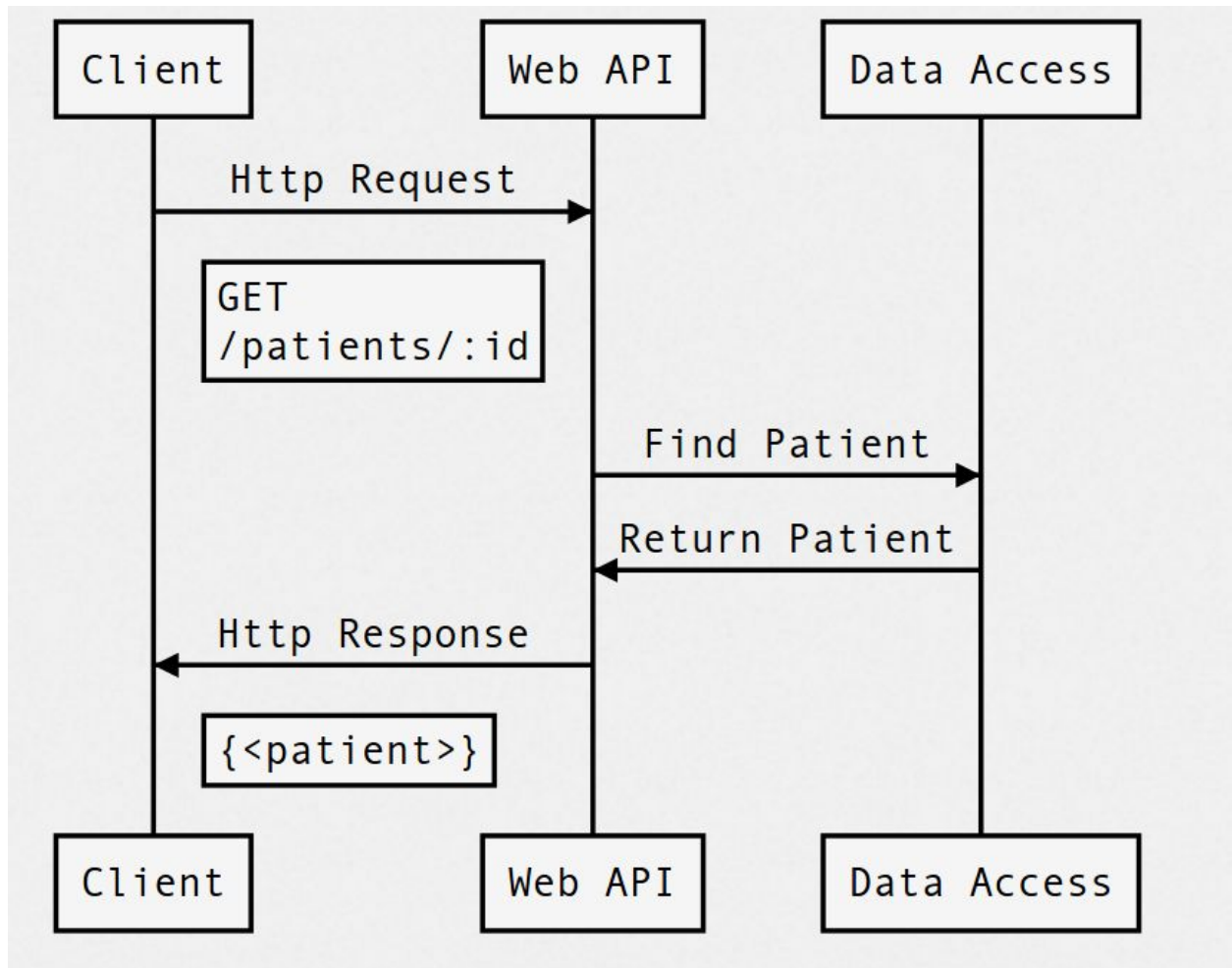
1. Patient's ID will be provided.

Sequence Diagrams

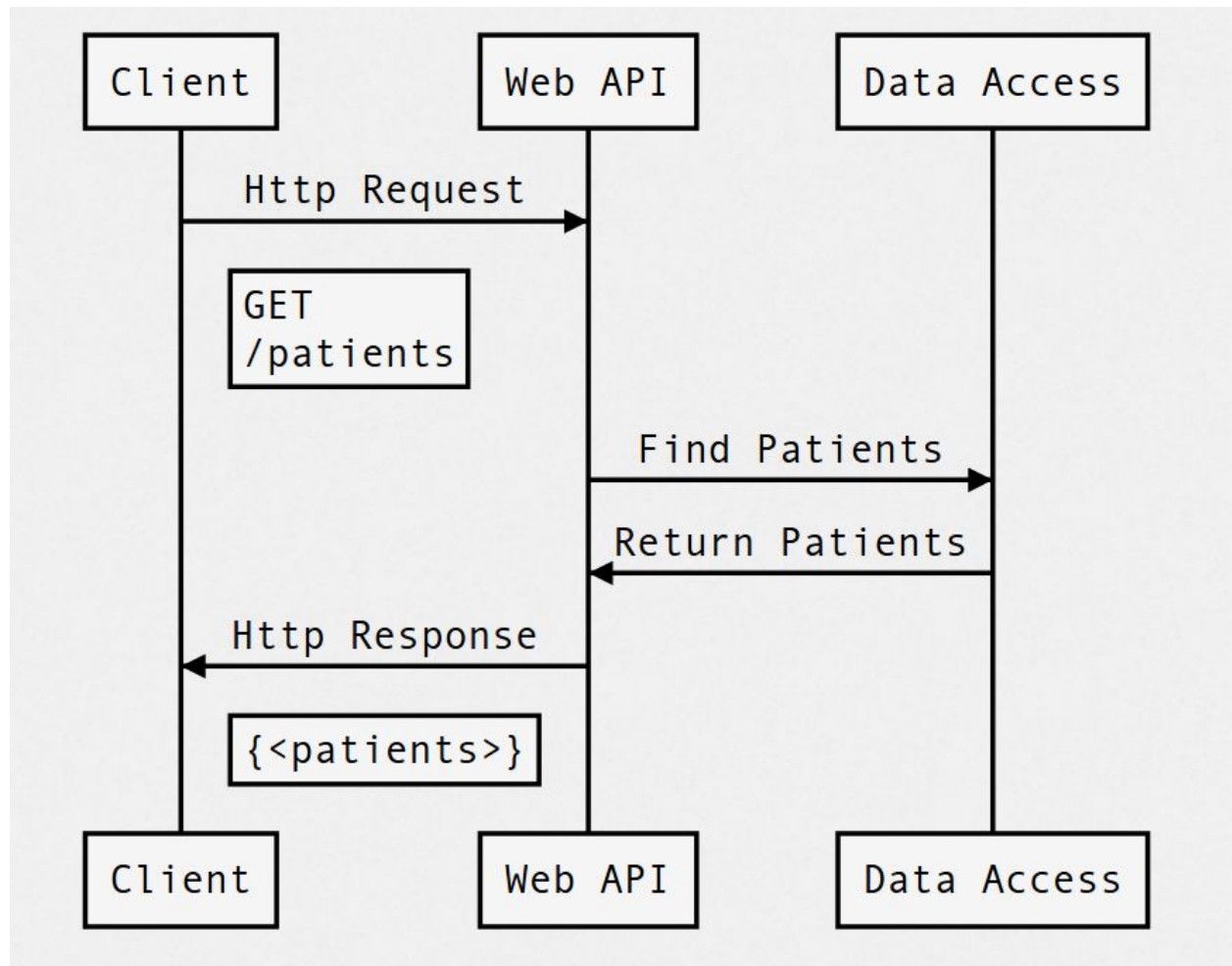
Add Patient



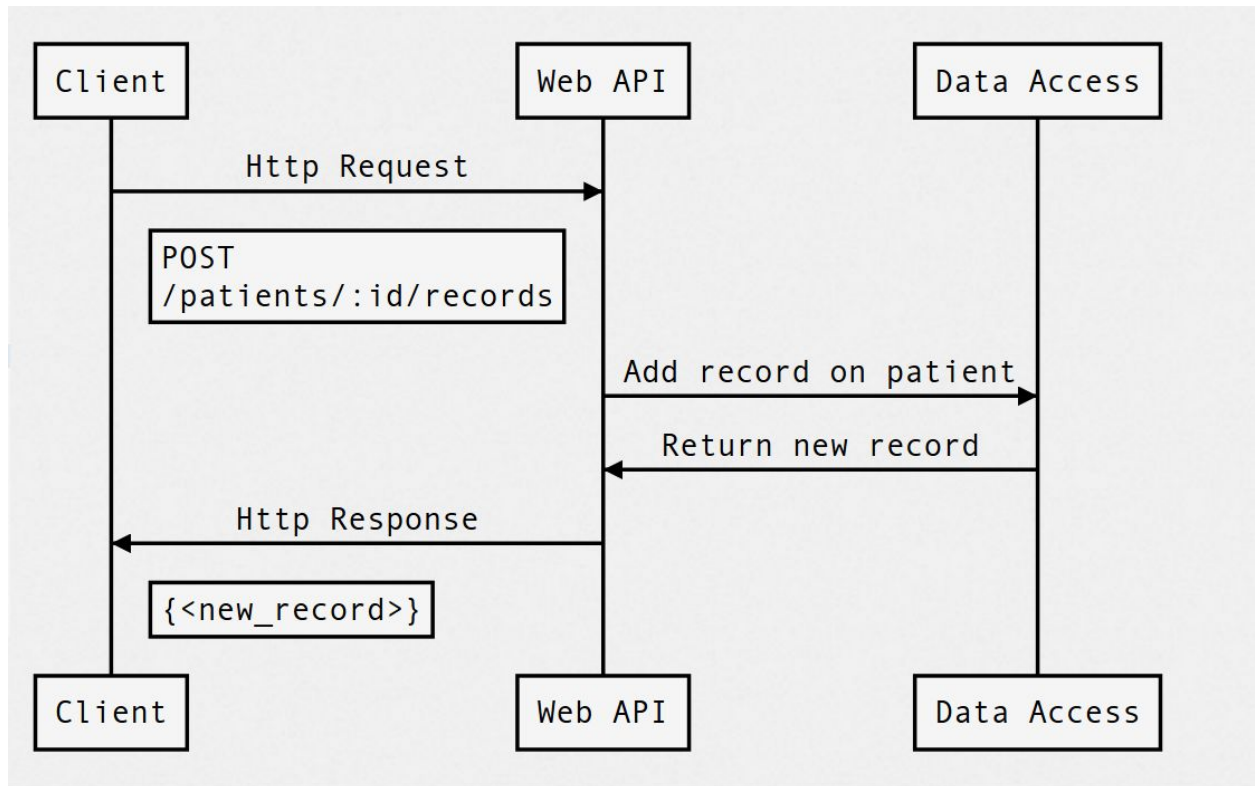
View Patient



List all Patients



Add Patient Record



View Patient's Records

