Enterprise Technologies - Mobile Platforms Group Project

Team Members :

Dyana George - 301026481

Sreeram Ramakrishnan - 301042442

Sherlyn Lobo - 301013071

Oguz Bayral - 301029119

Project Description:

- **REST API Service shall allow health care providers to view patient data to track and monitor patient records.**

- **REST API Service shall allow health care providers to view the detailed clinical data for an individual patient.**

- **REST API Service shall allow health care providers to find out any patients in critical condition.**

- **REST API Service should allow health care providers to monitor patient vitals.**

- **REST API Service should allow health care providers to schedule in center and out center patient care.**

- **REST API Service should allow health care providers to automatically bill patients based on services provided.**

The clinical data can include the following information:

Date/Time, Type of Data, Reading/Value
   Patient Status:
      Diagnosis
      Enter and Exit Date - Begin to End 10.12.2018 Emergency Entrance 15.12 Exit from Emergency 19.12 Exit From hospital
      Which treatments did patient get

Data Type:

- **Blood Pressure**
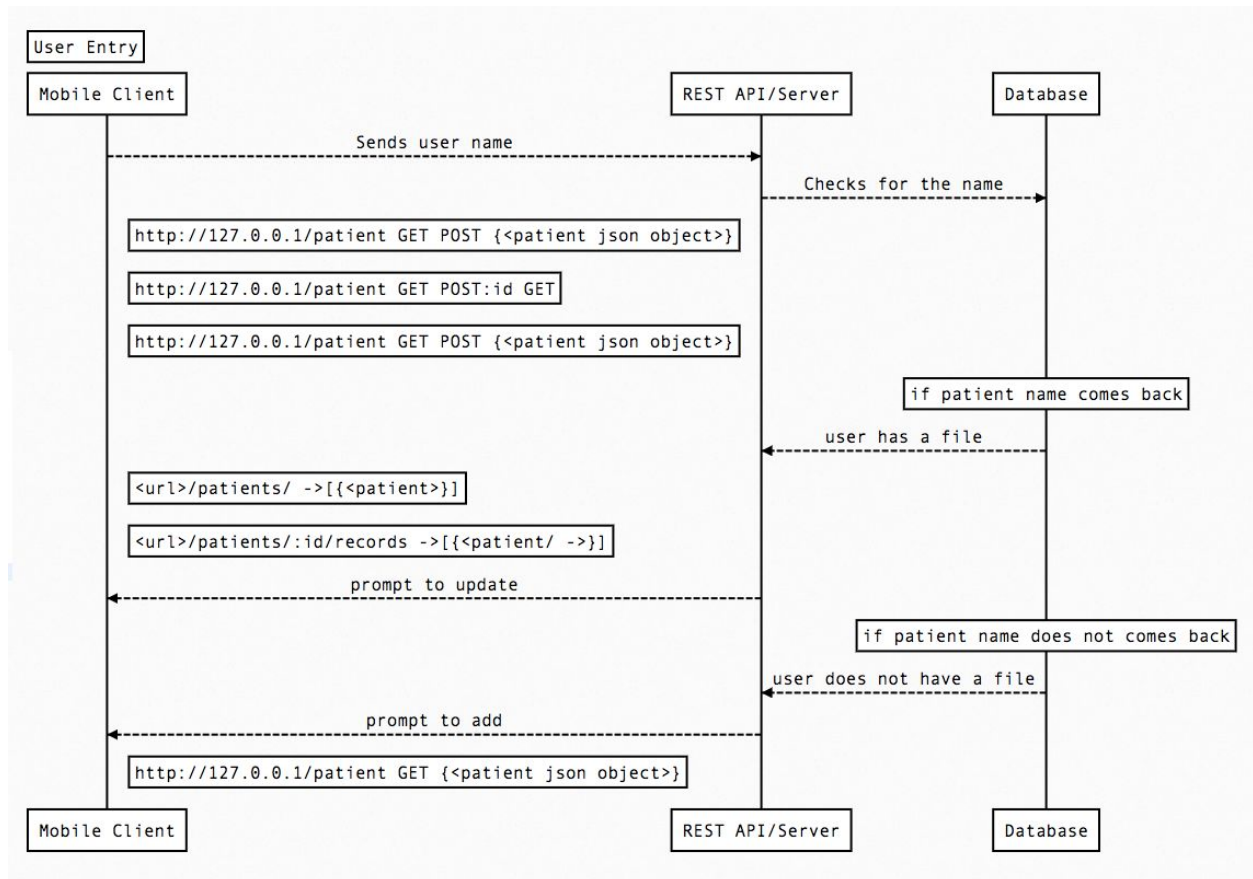- **Respiratory Rate**
- **Blood Oxygen Level**
- **Heart Beat Rate**
- **Blood Sugar**
- **Vitamins,Minerals, Haemoglobin, red and white blood cells**
- **Show hospitals available nearby**
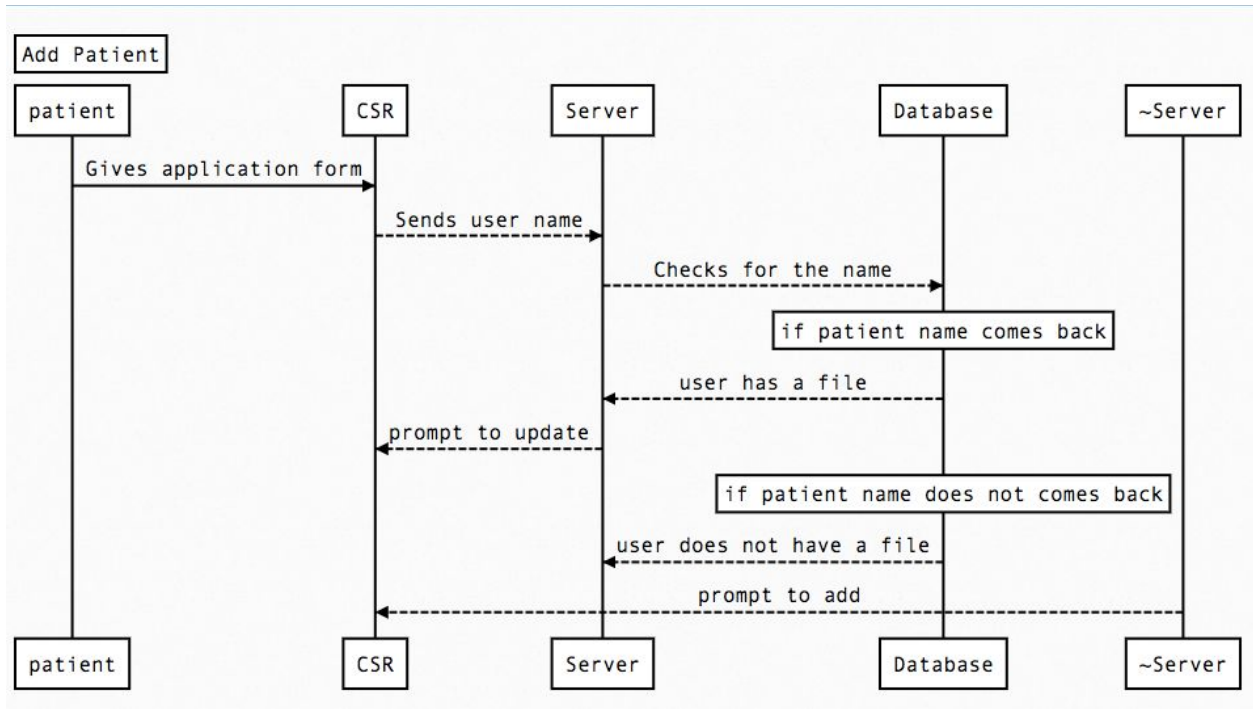
Use Cases and Functionality:

- Add Patient
- View Patient
- Edit Patient
- Delete Patient
- List all Patients
- Add Patient Record
- View Patient Records
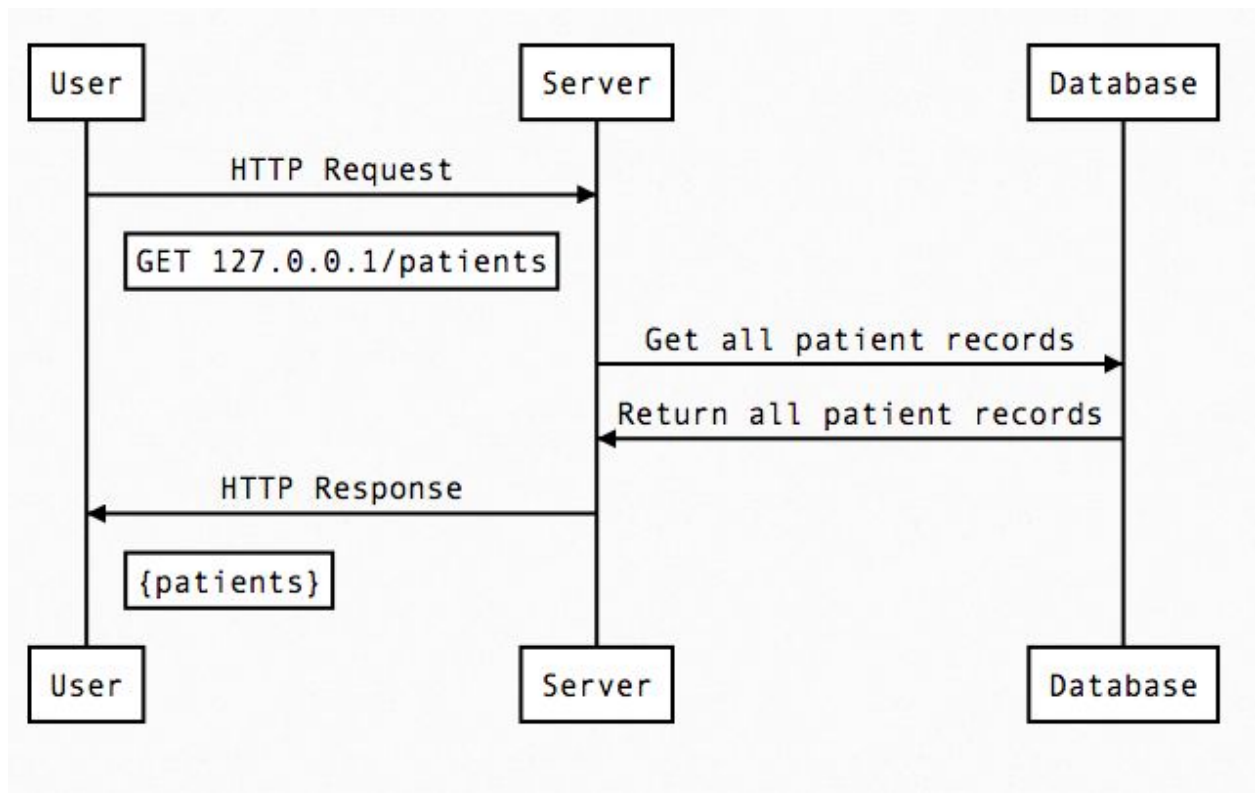- Edit Patient Record
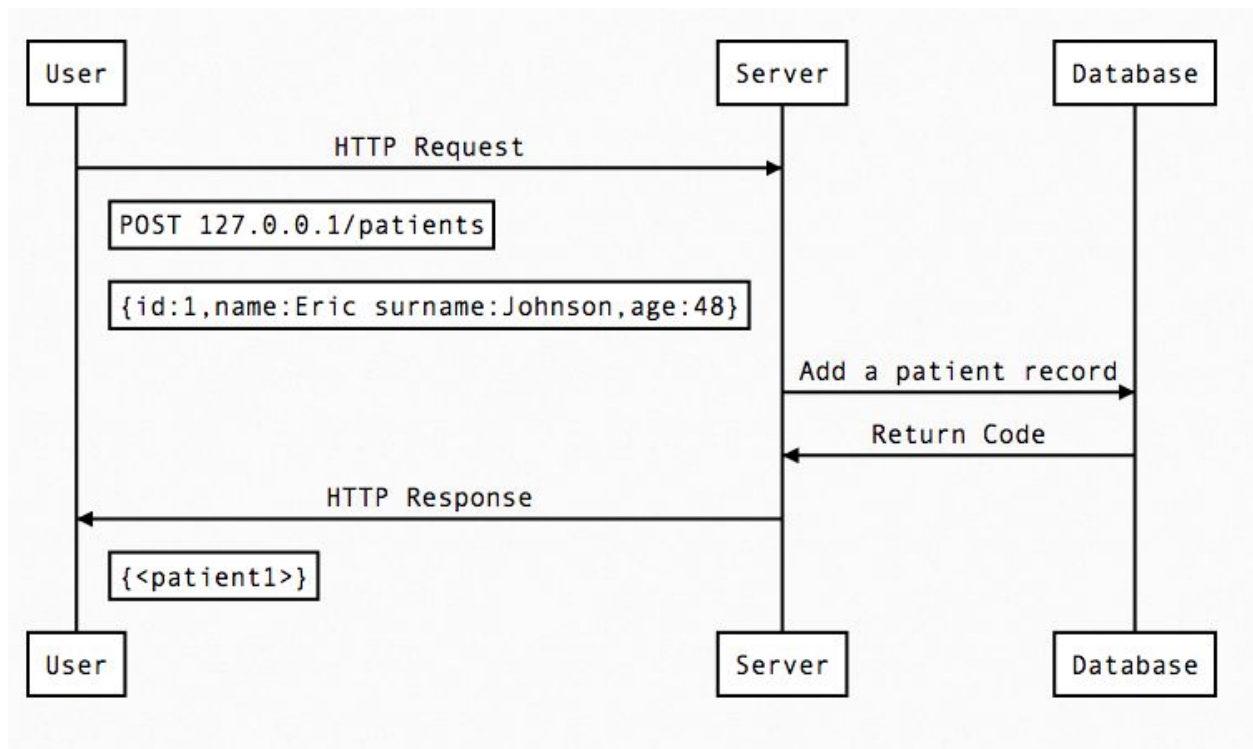- Delete Patient Record

Sequence Diagrams:

1) View Patient:

```
User Entry
Mobile Client                                    REST API/Server        Database

          Sends user name
    ----------------------------------------->|
                                               |  Checks for the name
                                               |----------------------->|
  http://127.0.0.1/patient GET POST {<patient json object>}
  http://127.0.0.1/patient GET POST:id GET
  http://127.0.0.1/patient GET POST {<patient json object>}

                                                      if patient name comes back
                                               |   user has a file
                                               |<-----------------------|
  <url>/patients/ ->[{<patient>}]
  <url>/patients/:id/records ->[{<patient/ ->}]
          prompt to update
    <-----------------------------------------|
                                                   if patient name does not comes back
                                               | user does not have a file
                                               |<-----------------------|
          prompt to add
    <-----------------------------------------|
  http://127.0.0.1/patient GET {<patient json object>}

Mobile Client                                    REST API/Server        Database
```

2) Add Patient:

Add Patient

patient	CSR	Server	Database	~Server

Gives application form

Sends user name

Checks for the name

if patient name comes back

user has a file

prompt to update

if patient name does not comes back

user does not have a file

prompt to add

patient	CSR	Server	Database	~Server

3) View Patient Records:

4) Add Patient Record:

5) Edit Patients:

6) Delete Patient

Delete Patient

| User | Server | Database |

- Patient Name →
- DELETE 127.0.0.1/patients
- Search Patient →
- If patient exists
- ← Delete patient
- ← Patient Deleted
- If patient does not exist
- ← Send error message
- ← Patient does not exist

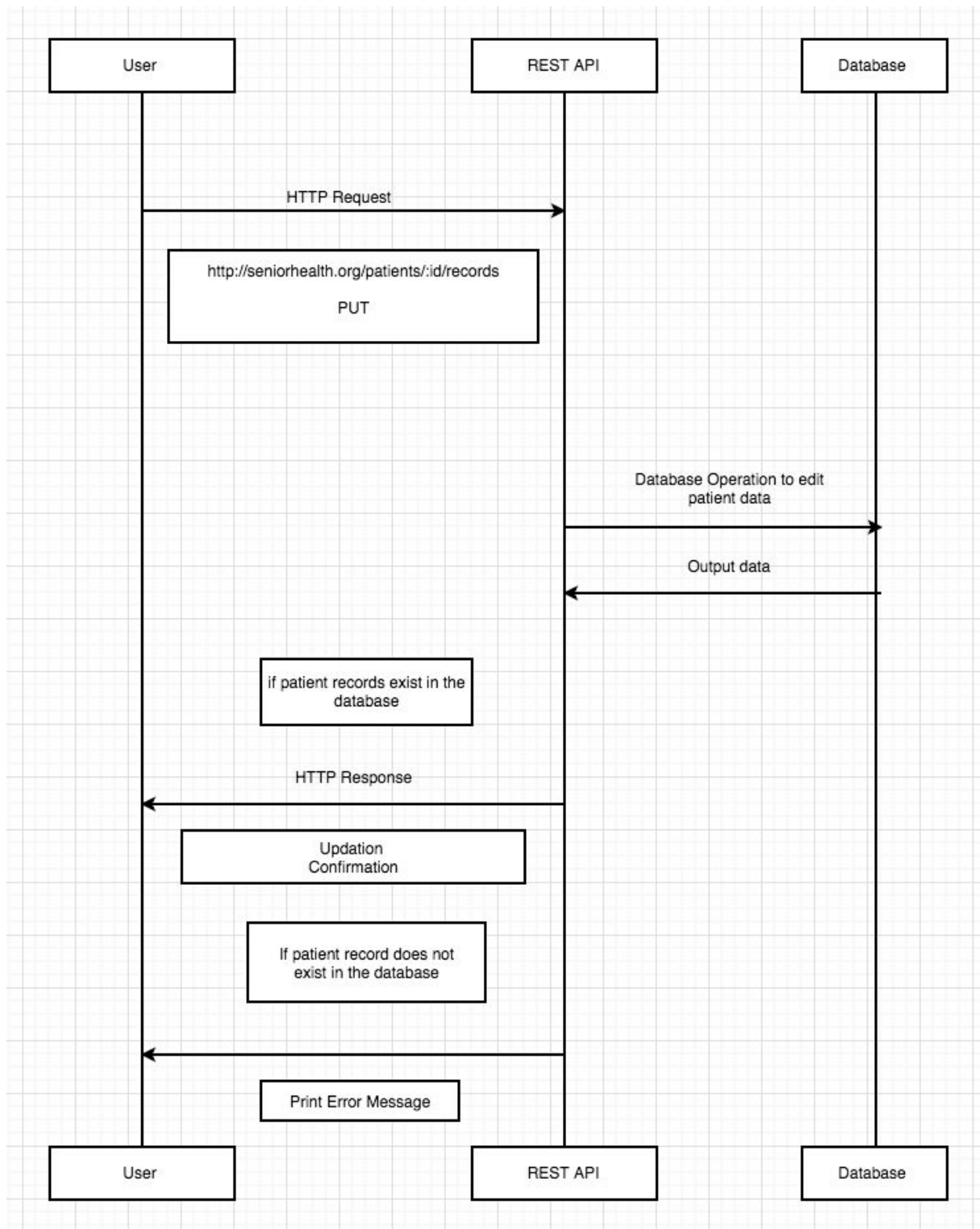| User | Server | Database |
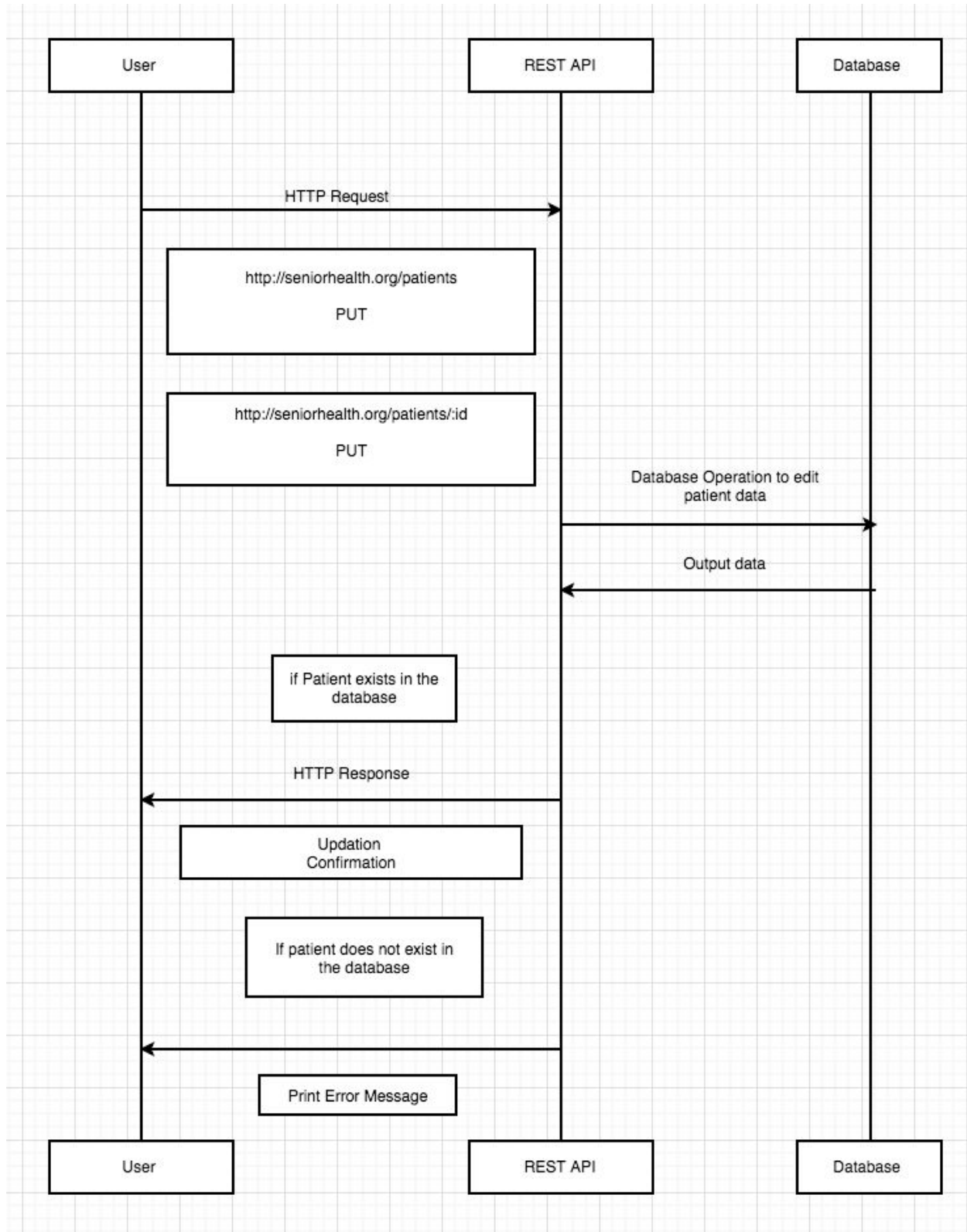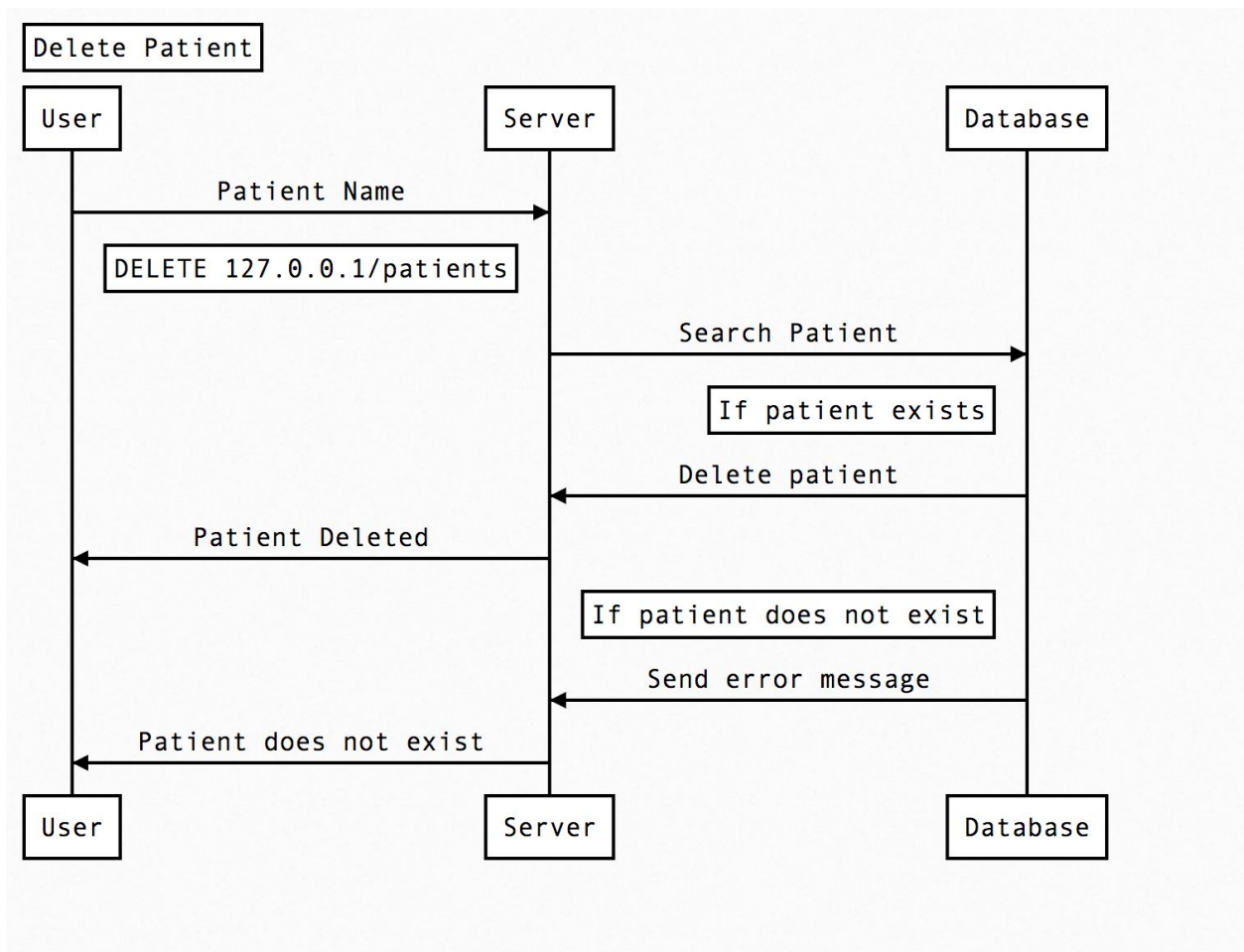
7) Edit Patient Records:

8) Delete Patient Records: