# **Hospital API**

LEVEL 3

You are required to complete the following task in a max of 5 hours. [Ideal completion time: 2.5 hours]

* Design the server side for a hospital Only the API needs to be designed
* Tech Stack: Node.js & Mongo DB
* Feel free to use any libraries (you should be very clear on how it works conceptually)

**Extra Points:**

* Well commented code
* Readme on how to setup the project on local system
* Scaleable folder structure (separate models, controllers and routes)

**Task**

* Theme:
  + We’re going to design an API for the doctors of a Hospital which has been allocated by the govt for testing and quarantine + well being of COVID-19 patients
  + There can be 2 types of **Users**
    - Doctors
    - Patients
  + Doctors can log in
  + Each time a patient visits, the doctor will follow 2 steps
    - **Register** the patient in the app (using phone number, if the patient already exists, just return the patient info in the API)
    - After the checkup, create a **Report**
  + Patient Report will have the following fields
    - Created by doctor
    - Status (You can use enums if you want to):
      * Can be either of: [Negative, Travelled-Quarantine, Symptoms-Quarantine, Positive-Admit]
    - Date
* Required Routes
  + /doctors/register → with username and password
  + /doctors/login → returns the JWT to be used
  + /patients/register
  + /patients/:id/create\_report
  + /patients/:id/all\_reports → List all the reports of a patient oldest to latest
  + /reports/:status → List all the reports of all the patients filtered by a specific status
* Decide the fields and schemas on your own, smartly
* Decide which routes need to be protected by authentication

**Free Hints**

* **USE PEN AND PAPER TO CREATE SCHEMAS BEFORE WRITING CODE**
* WORK ON ONE API AT A TIME, DON’T THINK ABOUT THE COMPLETE APP TOGETHER

**To Submit:**

* Record a video (max 3 minutes) with the following details (**and upload it to drive/youtube with public access, VIDEO SHOULD BE ACCESSIBLE BY ANYONE**):
  + Explain through the folder structure (what is placed where and why)
  + Explain the running code using Postman
* Upload the project files on github.com
* SUBMISSIONS WITHOUT VIDEO WILL NOT BE EVALUATED