

Backend test 3

Test Name: Hospital API

Deadline - Monday, 7th Sept midnight

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
- Fill the github and video links in this form:

https://docs.google.com/forms/d/e/1FAIpQLSeI0OO_loCuxPQrzgYMAHszYaE1MFChfs8b_PvVqL_bUB6ryA/viewform?usp=sf_link
- SUBMISSIONS WITHOUT VIDEO WILL NOT BE EVALUATED