Project: Clinic Reservation System (Phase 1: 100 points + 20 points bonus) Imagine

that we are designing a web application for clinic appointment reservations. It is required to implement the following features:

- 1- Sign In (10 points)
- 2- Sign up (10 points)
- 3- Doctor set his schedule. (Inserting a slot) (10 points)
- 4- Patients select doctor, view his available slots, then patient chooses a slot. (10 points)
- 5- Patient can update his appointment by change the doctor or the slot. (10 points) 6-Patient can cancel his appointment. (10 points)
- 7- Patients can view all his reservations. (10 points)

Expectation:

- As per the stack specified for each team(setting the team tech stack is generated randomly <u>Link here</u>
- you need to implement.
 - o Front end layer consists of simple screens to simulate successful flow
 - o Backend layer contains 7 features APIs
 - Database layer
- Successful integration between the 3 layers (10 points)
- Application build successfully, flows are successfully implemented (10 points)
 Code (front end, backend) pushed on github (10 points)

Bonus (20 points):

Integrate a messaging feature like kafka or rabbitMq to notify doctor when a patient reserve, update or cancel a reservation.

By creating topic called "clinic_reservation"

Event structure:

```
{"doctorId":"111",
```

"patientId":"222",

"Operation": "ReservationCreated" or "ReservationUpdated" or "ReservationCancelled" }

Create page in doctor with one button to fetch the doctor's messages.

Ground rules:

- Projects will be submitted via google classroom.
- Deadline: 11 November 2023 11:59 pm
- Late Submission till 13 November 2023 11:59 pm with penalty -20 points AND bonus part will not be considered.
- Violating the technology stack for team: -20 points
- You need to submit one zip folder its name following schema: {GroupNum_ID1_ID2_ID2_TA name.zip}
- Violating naming convention: -5 points
- Cheating cases: -5 Marks (not points) from the actual year work grades. •

Project grading criteria: Link

- Additional resources: (suggested resources you can start with) O Go lang :
 - https://medium.com/@rasoky.maulana/create-a-crud-rest-api using-mysql-golang-part-2-5af4942abdd2
 - o Python: https://techarise.com/restful-api-in-python-mysql/
 - o NodeJs: https://www.bezkoder.com/node-js-rest-api-express-mysgl/
 - o C#: https://www.youtube.com/watch?v=O5hKoBV3vaU
 - o React: https://www.bezkoder.com/react-crud-web-api/
 - o Angular https://www.bezkoder.com/angular-16-crud-example/

Suggested screens: feel free to add whatever you want but make it simple.



Hello, User (user type: Doctor)								
My Slots								
	Date	Hour						
	10/11/2023	1:00 PM	Edit	Cancel				
	15/03/2022	5:00 PM	Edit	Cancel				
Create new slot								
	Date	10/11/2023						
	Hour	1:	1:00 PM					
Add Slot								

Email	
Password	
User Type:	OPatient ODoctor
	Sign up

Email	
Password	
[Login