

NestJS Home Assignment

Liquidity Capital

Create a Mail service API.

(task should take 3-5 hours)

This task contains 3 services, API Gateway, RabbitMQ and Mail microservice. All calls from clients (like Web Apps: http) are going through API Gateway. Gateway calls other microservices via TCP protocol (or any other protocol you wish to use).

- You should be able to explain the entire mail sending process from Gateway to Microservice.
- App main / modules / controllers / services
- You should use OOP: interface, class, abstract, etc.
- Share your code via GitHub (preferred) or ZIP it.
- Create a new mail account via Gmail (please do not use yours).

Services:

1. API Gateway (HTTP)
 - a. Expose a route for sending mail requests via clients:
http://localhost:3000/mail/send
 - b. Accepting JSON with { from, to, subject, body } (isHtml optional)
 - c. Calling send mail event in RabbitMQ microservice (with JSON send details)
2. RabbitMQ Microservice
 - a. Create channel for sending mail events
3. Mail Microservice (TCP)
 - a. This is actual service that sends the mail
 - b. Listening to RabbitMQ send mail channel to send emails.
 - c. Accepting JSON with { from, to, subject, body }
 - d. Sending the mail via Gmail account
 - e. Return results (success/failed) to caller (Gateway)

Please feel free to contact me (Gilad) for any questions you have:
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