

# Golang Assessment Test

1. Design a database schema for a simple e-commerce website that has the following requirements:
  - Products have a name, price, description, and image.
  - Orders have a customer, date, and status.
  - Customers have a name, email, and password.
  - Each order can have multiple products.
  - Products can belong to multiple orders.
2. Write a RESTful API endpoint that allows customers to place an order for a list of products. The endpoint should:
  - Validate the input data.
  - Create a new order in the database.
  - Associate the ordered products with the order.
3. Write a RESTful API endpoint that allows customers to view their orders. The endpoint should:
  - Authenticate the customer.
  - Retrieve the list of orders associated with the customer.
  - Include the list of products for each order.
4. Write a RESTful API endpoint that allows the website admin to view all orders. The endpoint should:
  - Authenticate the admin.
  - Retrieve the list of all orders in the database.
  - Include the list of products for each order.
5. Implement a background task that runs every day at midnight and sends an email to each customer with a pending order reminder. The email should include a list of the products in their order and a link to complete the checkout process.
6. Write a script that generates a CSV report with the following information for each order:
  - Order ID
  - Customer name
  - Order date
  - Total price of the order
  - Status of the order
7. Implement an API rate limiter that limits the number of requests per minute from a single IP address to 100.

## Deliverables:

- Put your code into a private gitlab repository, and invite to the repository the following gitlab users as Developer :
  - @stacman
  - @fattq
  - @andreskyjois8

- A README file with instructions on how to run the application locally and short brief of design system.