# Coding Challenge Do IT Big

**Version 1 2023**

## Challenge: Create a simplified email reply app

## Summary

For us to be able to identify your skills and how you solve problems we would like you to create a simplified version of gmail. With this app you should be able to login, view emails and send replies to emails. You cannot compose emails to any user, only those you have received an email from.

## Details

- **Difficulty**: Medium/High
- **Estimated time**:
    - **Senior dev**: 2 - 6 hours
    - **Junior/Medior dev**: 1 - 2 days
- **Required tech Stack**:
    - **Backend**:
        - Nest.js
        Use whatever else you might need
    - **Frontend**:
        - Angular
        Use whatever else you might need
    - **System**:
        - LocalStack (an AWS simulator)
        - SES - The AWS service
- **Required knowledge**:
    - Docker & Docker-compose
    - AWS SES
    - Nest.js
    - Angular
- **Docs**:
    - AWS SES: https://docs.aws.amazon.com/AWSJavaScriptSDK/latest/AWS/SES.html
    - LocalStack: https://localstack.cloud/

## Front-end: Pages

**/login**

- Form with username/password

**/emails**

- Shows you all the emails you have
    -

**/emails/{id}**

- Shows the email body and below an textarea + submit button so you can reply

## Back-end: Endpoints

- Feel free to make your own endpoints and use your own endpoint naming

## Rules & Notes

1. Feel free to use any existing code you have from previous projects
2. Obscure emails, so from: ismail@doitbig.nl becomes from: i***l@doitbig.nl
3. You can only reply to emails you receive
    a. You can only reply once
4. I don't care much about the UI, if you had to choose, spend your time in code quality rather than UI
5. Make 1 repository with two folders:
    - Backend
    - Frontend

## Delivery

When you are finished, send an invite to your github, bitbucket or gitlab repository to:
**ismail@doitbig.nl**

**Goodluck!**