Part A: Coding Challenge

Using the technology of your choice, create a simple web app that allows a seller to showcase their home to potential buyers.

You do not need to do any account logins, management, etc.

The app will be just a single page (for 1 house) that includes:
- General title/short description/price/address/thumbnail of the house
- Has a floorplan of the house as the navigation element
- When you click on a room in the floorplan, the following details are loaded below the plan:
  - Room name
  - Room description
  - Photos of the room
- The page should be responsive for mobile devices
- Bonus points for optimising the app, and explaining optimisations
- You can use any assets you wish. We have provided some optional assets to use: https://drive.google.com/file/d/1NUsYaLeWJA021LqIY-h_LKkULy-rbKNp/view?usp=sharing

Part B: Architecture Challenge

Given this app description below, briefly explain (in writing) what approach you would take to create an app like this. In particular, how would you handle tracking of views and downloads of issued documents? Include a basic diagram showing how you would structure the data in a database for this sort of app.

The app is used by an architect to issue digital drawing packs to his peers (e.g. engineers, builders etc). He would use the app to select a bunch of drawings (pdf files) on a specific project that need to be released in one pack, then select the recipients names from an address book. The recipients would receive an email notifying them that the drawings have been issued. The architect should be able to track who has received the notifications and who has downloaded the files.

Process
- Respond acknowledging understanding of the challenges - or ask any clarifying questions

- Before starting, estimate (and report) how long you feel both challenges will take
- You will be paid R5,000 (regardless of the outcome of the job application process) to compensate for your time & effort to complete the challenges (please send bank details)
- Present (1 hour):
    - how long it actually took
    - demonstrate the working app (coding challenge)
    - (most important) explain the code and how it works
    - Present / talk through the architecture explanation