

Examen de DEV Heyama

 This is official exam resource document to join the Heyama Dev team

General

You will build a small system consisting of:

- A **mobile app** built with **React Native + Expo**
- A **web app** built with **Next.js** and **shadcn/ui**
- A **REST API** built with **NestJS**
- A **database** using **MongoDB**
- **Image upload** handled through any **S3 bucket service (except AMAZON ⚠)**

All applications must communicate with the API.

If you cannot complete a section, **skip it and focus on what you can deliver**. Partial solutions are acceptable.

 You have ^{24h} ~~24h~~ **MAX**. If you finish earlier, that's great, you can directly come to us for review.

Project Details:

Create an app that manages a collection of “Objects.”

An Object has:

- `title` (string)
- `description` (string)
- `imageUrl` (string — stored in S3)
- `createdAt` (date)

API:

Create a simple REST API:

1. **POST /objects**

- Accepts `title`, `description`, and an uploaded image file

- Upload the image to S3
- Saves the record in MongoDB

2. **GET /objects**

- Returns the list of Objects

3. **GET /objects/:id**

- Returns a single Object

4. **DELETE /objects/:id**

- Removes the entry from MongoDB
- Image deletion from S3

Mobile + Web App:

 Here you will build a mobile and web app that basically do the same things.

Create a minimal UI with the ability to:

1. **Create an Object**

- Input fields for title & description
- Pick an image from the device
- Upload it through the API
- When an object is created, the change should reflect in **realtime** on all screens (SocketIo).
This means if I add an object on the mobile app, I should see it appear on the web app in realtime

2. **List Objects**

- Fetch and display the list from the API
- Show images using the S3 URLs returned by the API

3. **View a Single Object**

- Very basic screen showing the an object details

General notes:

- UI design does not matter. Just make sure its functional and coherent.
- No deployment is needed. We will check your code on your PC directly.
- If you feel like you can improve the project by adding features you want, go for it. Its still a bonus
- Push all your code to Github as you work
- If you have any questions, reach us on whatsapp

Thanks