

# Coding Challenge - Gholamreza Saeid

**Sent on:** 11.10.2021

**Role:** Backend developer

**Tech Stack:** Node.js, Javascript or Typescript, Express.js, Mongoddb

**Test duration:** 1 week

**Git Repo (required):** Bitbucket, Github or Gitlab

**Task:** Build a web server for creating and managing Events.

**Story:** As a user, I want to be able to register to a platform, create an Event and let other users register to my Event.

## Requirements:

1. All data collected through the **form** needs to be properly **validated**.
2. **Endpoints** should have **validations**.
3. Data collected using the form must always be **available** at the application level. **Redux Cache** will be used to transmit data to the **store**.
4. After setting up the Git Repo (on any of the platforms mentioned above), provide "read" access to [development@myonvent.com](mailto:development@myonvent.com)
5. The code must be pushed to a repository after each relevant step (Ex: project setup, routing done, Redux done ...).

## Instructions:

- ☐ Implement a secure authentication:
  - ☐ The User model should have at least these fields:
    - ☐ First Name
    - ☐ Email
    - ☐ Last Name
    - ☐ Date of Birth
    - ☐ Picture (with ability to upload png or jpg)
  - ☐ User authentication should have these endpoints:
    - ☐ Login
    - ☐ Log Out
    - ☐ Register to Platform
    - ☐ Register to Event
    - ☐ Unregister from Event

- ☐ Implement the Event management CRUD endpoints
  - ☐ The Event model should have a least these fields:
    - ☐ Name
    - ☐ Location (string)
    - ☐ Start Date
    - ☐ End Date
- ☐ Implement Documentation
  - ☐ swagger, open api or postman collection (10-20% coverage)
- ☐ Implement Unit or E2E tests (10-20% coverage)
- ☐ Implement Cron Jobs to set an event as “closed” when end date passes
- ☐ Multithreading & Encryption (in a separate worker thread, convert uploaded jpg or png image to base64 text, encrypt it and save to the disk)

**Nice to have:**

- ☐ Docker setup