

## Back-end Technical Assessment

Objective: Gauge and assess candidate's ability to write code for a NodeJS application.

### Requirements:

- **If you are not familiar with NestJS please practice before assessment** <https://docs.nestjs.com/>
- Store data in memory for retrieval and updates, no database required.
- Create tests cases that make all the API calls to create, update and delete data.
- **Email must be sent to [adrian.borrego@citi.com](mailto:adrian.borrego@citi.com) before starting and follow-up email sent when is complete.**
- **Maximum time limit is 3 hours.**
- Find an appropriate time of the day when you are free from distractions. Remember this is to gauge your skill level and will help us determine where you fit best!
- Please ensure that the project runs and is viewable in the browser, submit the full stackblitz project with the code not just the page.

### Instructions:

- Create a NestJS project using any developer platform of your choice.
  - We recommend <https://stackblitz.com/fork/nestjs> which is a fast easy way to get started online.
- **Once you have your development environment ready and setup send an email to interviewers to indicate start time.**
- Create a Task data model with the following attributes below:
  - id: String
  - title: String
  - description: String
  - completed: Boolean
  - createDate: Date
  - completedDate: Date
- Add the following REST API endpoints to your project:
  - GET /tasks
    - Returns all tasks.
  - GET /tasks/:id
    - Returns a task by ID.
  - POST /tasks
    - Creates a task.
  - PUT /tasks/:id
    - Updates a task by ID.
  - DELETE /tasks/:id
    - Deletes a task by ID.
- Once completed send an email and share the link to your project.
- Average test time is 1 hour, but you have up to 3 hours to submit your solution. Please ensure that the project runs and is viewable in the browser.
- Good luck!