

## NODEJS BACKEND DEVELOPER TECHNICAL TEST

### Task

Create a RESTful API to facilitate an expense management system. E.g., We want to be able to list, create, read, update, and delete expenses. The API should follow RESTful standards, returning the relevant HTTP status codes for the response. Any errors returned from the API should be clear and descriptive.

In case any thing is not clear, please make an assumption and document any assumptions in the README file.

Return your project code to us as either as a zip file, or in a public project hosted on Github or BitBucket.

### Criteria

- The expenses should have:
  - A description of the expense
  - A value for the expense
  - Belong to a type of expense
- Type of expense should be one of the following:
  - Entertainment
  - Food
  - Bills
  - Transport
  - Other
- The API should handle:
  - Listing all expenses
  - Creation of a new expense
  - Reading a single expense
  - Update of an expense
  - Deletion of an expense
- The API should communicate with a database to persist the expenses.
- The API should have unit/integration tests.
- The API should conform to RESTful standards and best practices.
- The API should have good error handling.
- Errors returned from the API should be clear and descriptive
- No Frontend is required, this is only an API.
- The API should return JSON formatted data
- No authentication or user management is required
- No pagination is required

### Bonus

- Provide an OpenAPI schema for the API.
- If the project is written in TypeScript.