

# Valere Margins Node.js Assessment

Hello!

In order for us to assess your current level of skills, we are inviting you to complete this Node.js assignment.

This assignment aims to implement a server for sports program management. In this assignment, a candidate should design and implement RESTful APIs and database models. Required technologies for the implementation are the NestJS framework with TypeScript and Express for server-side programming and a database of your choice with any ORM or ODM.

## Description

Sports complex would like to manage its sports classes through a new website. The sports complex has a variety of sports, including baseball, basketball, and football. For each sport, they have classes, which are usually held three times a week. The sports complex requires an admin dashboard where its employees would be able to view, edit, and manage classes for each of the sports, change dates and times for each week, and view users who applied for each course in a given period.

## Assignment Requirements

- User registration with email and password
- Role-based authorization for enabling sports and user management
- Users should be able to filter and retrieve all sports classes, e.g.  
`/api/classes?sports=Basketball,Football`
- Users should be able to retrieve details of each sports class (week schedule, class duration, description), e.g. through endpoint `/api/classes/{id}`
- The user should be able to apply for a sport class
- Admin users should be able to manage sports classes (CRUD)
- API documentation should be made with Swagger
- Code should be stored in GitHub/GitLab repository

### **How will your assignment be reviewed?**

We will assess your assignment based on its architecture, logic, code complexity, consistency of code style, compliance with RESTful practices, and API documentation completeness. A good README file and a few unit and integration tests are highly recommended, though not necessary.

### **Submitting your assignment**

You can submit your assignment by uploading it to an online Git repository and sending us a public link. **Please send it as a response to this email.**

**Good luck, and thank you for the time you invested!**

The logo for Margins, featuring a dark grey circle with a white lowercase 'm' inside.

Valere Margins Career team