

Period-2 Node.js, Express + JavaScript Backend Testing



Explain and Reflect:

Note: This description is too big for a single exam-question. It will be divided up into two separate questions for the exam (including only questions taken from below)

Why would you consider a Scripting Language as JavaScript as your Backend Platform.

Explain Pros & Cons in using Node.js + Express to implement your Backend compared to a strategy using for example Java/JAX-RS/Tomcat

Node.js uses a Single Threaded Non-blocking strategy to handle asynchronous task. Explain strategies to implement a Node.js based server architecture that still could take advantage of a multi-core Server.

Explain, using relevant examples, concepts related to the testing a REST-API using Node/JavaScript + relevant packages

Explain, using relevant examples, the Express concept; middleware.

Explain, using relevant examples, how to implement sessions, and the legal implications of doing this.

Compare the express strategy toward (server side) templating with the one you used with Java on second semester.

Explain, using a relevant examples, your strategy for implementing a REST-API with Node/Express and show how you can "test" all the four CRUD operations programmatically using for example the *Request* package.

Explain, using relevant examples, about testing JavaScript code, relevant packages (Mocha etc.) and how to test asynchronous code.

Explain, using relevant examples, different ways to mock out databases, HTTP-request etc.

Do:

Complete (as much as you have time for) the exercises, part-1 of the game proposal and/ or, use your own ideas/examples to come up with examples for the questions stated above