

Express.js Quiz

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* Required

The command, « npm init »... *

5 points

- ☐ Automatically installs all necessary 3rd-party modules for developing a back-end application.
- ☒ Executes a wizard that, when complete, generates the starting version of the package.json settings file.
- ☐ Initializes a github repository for the given Node.js project.
- ☐ Informs Node.js's package manager that you wish to use the Express.js back-end framework in the code.

When a client uploads a file to a server, it is best practice to ... *

5 points

- ☐ Leave the filename as-is and simply save it to the server.
- ☒ Modify the filename to ensure its uniqueness - often by appending the time/date or a random number - before saving it to the server.



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Which type of incoming HTTP request(s) CANNOT be handled by an Express-based project and is better handled by a different web server framework? *

5 points

- ☐ a request for a URL that does not match the name of an actual file or directory on the server
- ☐ A request with a parameter in the URL, such as the ID number of a record in a database or API
- ☐ a request that results in a plain text response
- ☐ a request that results in an HTML document response
- ☐ a request that results in a JSON object response
- ☐ A request that results in a JSON array response
- ☐ A request that results in an image response
- ☐ HTTP POST requests
- ☐ HTTP GET requests
- ☐ A request to upload one file
- ☐ A request to upload several files
- ☐ A request that results in the same response each time the same type of request is made
- ☐ A request that results in a different response each time the same type of request is made
- ☒ None - all of the above can be handled by a project using Express



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Calling the next() function within a middleware function invocation will immediately... *

5 points

- ☐ Send a response to the client
- ☒ Invoke the next middleware function
- ☐ Invoke the next route function, if no subsequent middleware functions exist
- ☐ Use the 3rd-party middleware module named 'next' to log the incoming request data to the command-line in nicely-formatted color-coded output.

The 3rd-party middleware, body-parser, makes all data sent to the server with an incoming HTTP(S) request into an easily accessible object called...

5 points

- ☐ req.body
- ☐ req.bodyParser
- ☐ req.files
- ☒ req.params

The configuration file in Express.js-based apps is called... *

5 points

- ☐ .config
- ☐ express.yml
- ☒ package.json
- ☐ requirements.txt
- ☐ .project

The command, « npm start », by default ... *

5 points

- ☒ installs all dependencies listed in the 'package.json' settings file of an NPM project
- ☒ executes the main script file of an NPM project mentioned in the 'package.json' settings file
- ☒ runs unit tests on an NPM project
- ☒ sets up a Node.js project to start using NPM as the package manager

It is possible for Express to serve static files from a particular directory without needing to make routes for each file. *

5 points

- ☒ True
- ☐ False

Which of the following are true? *

5 points

- ☒ The 3rd-party 'multer' middleware module is useful for streamlining the upload of file data passed to the back-end server via HTTP(S) POST requests.
- ☐ The 3rd-party 'bodyParser' middleware module is useful for parsing data passed to the server along with HTTP(S) POST requests.
- ☒ The 3rd-party 'axios' module is useful for streamlining how asynchronous HTTP requests are made from the back-end server to other external servers or APIs.
- ☒ The 3rd-party 'dotenv' module is useful for loading environmental variables into the back-end, so sensitive credentials and global settings do not need to be hard-coded in the main back-end code files.
- ☒ The 3rd-party 'passport' middleware module is useful for streamlining user authentication.
- ☒ The 3rd-party 'mongoose' module is useful for simplifying how express.js-based code interacts with a MongoDB database.
- ☒ The 3rd-party 'mocha' and 'chai' modules are useful for running unit tests on back-end code.



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Which of the following are functions of the 'res' object passed to a route function? Look it up! * 5 points

- ☒ cookie()
- ☒ download()
- ☒ json()
- ☒ location()
- ☒ redirect()
- ☒ render()
- ☒ send()
- ☒ sendFile()
- ☒ set()
- ☒ status()
- ☒ type()

Code in Express.js-based apps is written in ... * 5 points

- ☐ Browser-based Javascript
- ☒ Node.js-based Javascript
- ☐ React.js-flavored Javascript

The Postman app is used to... 5 points

- ☐ Access and log into a database and fetch the data.
- ☒ Perform unit tests on the back-end code.
- ☐ Log all incoming HTTP(S) requests to the back-end server's command-line.
- ☐ Streamline the issuing of HTTP(S) requests to back-end routes during development.

Express-based projects should have a directory named 'node_modules' where the code of all dependencies is tracked by version control. * 5 points

- ☒ True
- ☐ False

Middleware functions in Express.js are invoked... 5 points

- ☒ Before route functions are invoked
- ☐ After route functions are invoked



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The module named 'nodemon' saves developers time by ... 5 points

- ☐ mocking external APIs so the server doesn't have to wait for responses
- ☒ stopping and restarting the server every time the code is changed
- ☐ monitors changes to a project's dependencies, and automatically installs and imports them as necessary
- ☐ monitoring the server and automatically informing the developer when it is overloaded with requests
- ☐ monitoring incoming HTTP(S) requests and automatically routing them to the appropriate code

The purpose of middleware functions in Express.js is to... 5 points

- ☒ ensure that the functionality of the prototype matches the functionality of the back-end production code
- ☒ modify the req or res objects that will eventually be passed to a route function
- ☒ update the user interface in response to a request
- ☒ perform some sort of 'side-effect' in response to a request that is not directly related to constructing the response

Express.js is a ... 5 points

- ☐ front-end framework built in Node.js
- ☐ front-end framework built in React.js
- ☐ front-end framework built in browser-based Javascript
- ☒ back-end framework built in Node.js
- ☐ back-end framework built in React.js
- ☐ back-end framework built in browser-based Javascript



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The command, « npm install express --save »... 5 points

- ☐ Builds and executes the NPM project
- ☐ Installs the 3rd-party module named 'save'
- ☐ Installs all dependencies listed in the file named 'package.json' onto the local machine
- ☒ Installs 'express' onto the local machine
- ☐ Updates the file named 'package.json' to include 'express' as a dependency
- ☐ Updates the file named 'package.json' to include 'save' as a dependency

Which of the following are true? 5 points

- ☒ Express's 'use()' function is used to pass a middleware function for Express to call with each relevant incoming HTTP(S) request.
- ☒ Express's 'post()' function is used to pass a route function for Express to call with each relevant incoming HTTP(S) POST request.
- ☒ Express's 'get()' function is used to pass a route function for Express to call with each relevant incoming HTTP(S) GET request.
- ☒ Express's 'listen()' function is used to begin listening to a specific port for all incoming HTTP(S) requests.



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The command, « npm install » ... *

5 points

- ☐ Builds and executes the NPM project
- ☐ Installs the 3rd-party module named 'save'
- ☒ Installs all dependencies listed in the file named 'package.json' onto the local machine
- ☐ Installs 'express' onto the local machine
- ☐ Updates the file named 'package.json' to include 'express' as a dependency
- ☐ Updates the file named 'package.json' to include 'save' as a dependency

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