Express.js Quiz

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* Required

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

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The configuration file in Express.js-based apps is called... *   5 points

○ .config

○ express.yml

◉ package.json

○ requirements.txt

○ .project

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

○ Browser-based Javascript

◉ Node.js-based Javascript

○ React.js-flavored Javascript

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

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.

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.

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

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()

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 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 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

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

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

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

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.

Middleware functions in Express.js are invoked... *

5 points

● Before route functions are invoked

○ After route functions are invoked

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.

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

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