Module 10: Microservices Application

Demo Document 2

edureka!



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Working Of Child Process

DEMO Steps:

Step 1: Let us create two .js files named test.js and exec.js.

child_process.exec method runs a command in a shell and buffers the output

```
Js exec.js
                                    const fs = require('fs');

■ OPEN EDITORS

                                    const child_process = require('child_process');
   Welcome
    Js test.js
                                       var workerProcess = child_process.exec('node test.js '+i,function
    JS fork.js
                                          if (error) {

▲ CHILDPROCESS CODE

JS exec.js
                                             console.log('Error code: '+error.code);
                                             console.log('Signal received: '+error.signal);
                                          console.log('stdout: ' + stdout);
console.log('stderr: ' + stderr);
 Js test.is
▶ OUTLINE
Ln 8, Col 19 Spaces: 4 UTF-8 LF JavaScript 😃 🔔
```

Step 2: In test.js write console.log and we will be executing this file with Exec.js



Step 3: Verify the Output, once the server has started

```
Avyaans-MacBook-Pro:childprocess_code avi$ node exec.js
Child process exited with exit code 0
stdout: Child Process 0 executed.

stderr:
Child process exited with exit code 0
stdout: Child Process 2 executed.

stderr:
Child process exited with exit code 0
stdout: Child Process 1 executed.

stderr:
Avyaans-MacBook-Pro:childprocess_code avi$
```

Step 4: Instead of using exec now try code using child_process.spawn(). Now create one new spawn.js file and execute the same test file with spawn

```
JS exec.js
                                                                 JS test.js
                                                                                                     JS spawn.js X
                                     const fs = require('fs');

■ OPEN EDITORS

                                     const child_process = require('child_process');

✓ Welcome

    Js exec.is
                                     for(var i = 0; i<3; i++) {
   JS test.js
                                       var workerProcess = child_process.spawn('node', ['test.js', i]);
    JS spawn.js
▲ CHILDPROCESS_CODE
JS exec.is
JS fork.is
JS test.js
```

Step 5: Now run node spawn.js in command prompt and output of spawn with child process

```
Avyaans-MacBook-Pro:childprocess_code avi$ node spawn.js stdout: Child Process 0 executed.

stdout: Child Process 1 executed.

child process exited with code 0 stdout: Child Process 2 executed.

child process exited with code 0 child process exited with code 0 Avyaans-MacBook-Pro:childprocess_code avi$
```

Step 6: **FORK()** method child_process.fork method is a special case of spawn() to create Node processes.

Create two js files named fork.js and test.js



Step 7: Verify the output, once the server has started.

