

CS6.201 Introduction to Software Systems

Lab Activity - Introduction to NodeJS and Asynchronous Programming

March 26, 2025

Maximum Marks: 20

Instructions

- Ensure that NodeJS is installed on your system.
 - Abide strictly to the submission format.
 - You will only require the use of 'fs' module for this activity.
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1 File Handling [10M]

1. In a file named *dir_create.js* write code to create a directory named *file_handling* using the 'fs' module of Node. [1.5M]
2. Now, go to the created directory, Code for each of the questions following must be in separate files. The code you write must ensure error handling and error handling contains marks. Only use *try-catch* for the same. **Here, the marks are for error handling and file structure**[1.5M]
3. Write code to create and **write** "This is a write operation" to a file named *file1.txt*. You should not manually create the file to which you are going to write; think of a function that we have discussed in the lab that can create and write to the file simultaneously if the file does not exist. [2.5M]
4. Write code to **append** "This is an append operation" to the file *file1.txt*. [1.5M]
5. Write code to **read** the file and print the contents of the file in the terminal. [1.5M]
6. Write code to **delete** *file1.txt*. [1.5M]

Submission Format

The directory structure for submission on GitHub must be as below. Also, zip your submission of git and submit it on Moodle.

```
<GIT REPO YOU CLONED>
|-- file_handling
|   |-- 3.js
|   |-- 4.js
|   |-- 5.js
|   |-- 6.js
|-- dir_create.js
```
