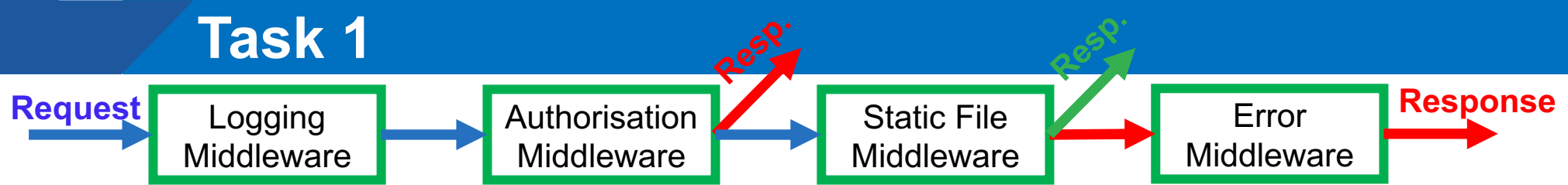


Lab – Express.js and Middleware Functions

Task 1



Create a **server** using **Express.js**.

The **server** should have the following **Middleware Functions**.

1. **The first middleware** logs all incoming request, and outputs its url on the (server) console;
2. **The second middleware** randomly decides whether to end the request:
 - There is a **50% chance** that the middleware will **end the request**, sending back a message: **'Bad luck. Try again next time'**;
 - There is a **50% chance** that the middleware will allow the request to **proceed to the next middleware**;
 - **Hint: JavaScript has a random number generator that can be used for this.**
3. **The third middleware** returns the file specified by the request url (e.g., "http://localhost:3000//file.txt"):
 1. it returns the file if it exists;
 2. it goes to the next middleware if the **file does not exist**, or if there is another error.
4. **The last middleware** sends back an **error message 'File not found'** with an **error code '404'**.

Use your CW1 files as those to be returned, and such files should be in a **folder called 'static'**.

As the previous task, but this time:

- try to identify potential **3rd party middleware** to use instead of **some of the Middleware Functions** you implemented.

This is **good practice** in terms of:

- **Reusage**
- **Modularity**
- **Flexibility**
- **More complete functionalities** (more features offered) and **Improved security** via well-established 3rd party Middleware

Questions?