

Monday Morning Inductions Round 1 Task Submission

About the Task

The purpose of this task is solely to judge your capacity to quickly pick up new development skills and work with urgent problem statements with full efficiency and speed. The requirement of this team is not to be the best developer yet, but to have the best potential and the will to learn and become the leading team of developers in the National Institute of Technology Rourkela. The Technical Team of Monday Morning has held this title (Best Developers of NITR) for over 6 years, and we intend to continue holding onto this title.

Why this Task?

Being able to complete even one of the 3 tasks given below will showcase your capacity to quickly grasp new concepts, languages and frameworks and work with them to develop a rudimentary product.

The Task

You must complete one out of the 3 sub-tasks detailed below at the minimum to proceed to the next round, but preferably do 2 out of 3. Feel free to contact the Technical Coordinator (contact details below) for any questions or clarifications. The tasks are divided based on the 3 sections of the Technical Team's works – Web, App, and Backend.

1. Web Sub-Task

A UI design has been sent to you, attached in the mail you have received for Round 1. The design contains a layout. Your task is to code that UI and make it functional, at a basic level, as you see fit. You should try your level best to make the UI, we are not expecting a 100% match.

Requirements:

- a. The UI must match as closely to the original UI layout.
- b. Hardcoding of any values should be avoided. You can look up what hardcoding means.
- c. The UI must be responsive. You can look up what responsive design means.

Languages to be used:

- a. HTML
- b. CSS
- c. JavaScript

Frameworks/Libraries to be used (optionally):

- a. Bootstrap
- b. Or, Material-UI

2. App Sub-Task

A UI design has been sent to you, attached in the mail you have received for Round 1. The design contains a layout. Your task is to code the mobile layout of the UI and make it functional, at a basic level, as you see fit.

Requirements:

- a. The UI must match perfectly (or as close as you can make it).
- b. Hardcoding of any values should be avoided. You can look up what hardcoding means.
- c. The UI must adapt to the screen size and density.

Languages to be used:

- a. Dart

Frameworks/Libraries to be used (not optional):

- a. Flutter
- b. Material-UI

3. Backend Sub-Task

Develop a simple API Server and some Server Side Rendering using express.

- a). GET /api/user/<userid> -> Returns JSON user data from a json file.
- b). POST /api/user -> Adds user data to a json file
- c). PUT /api/user/<userid> -> Updates a user in the json file
- d). DELETE /api/user/<userid> - Deletes a user from the json file

Languages to be used:

- a. JavaScript
- b. Or, TypeScript

Libraries/Frameworks to be used (not optional):

- a. Node.js
- b. Express

Learning Resources

The method of learning is different for each person and you will have to find what works the best for you. Following are some of the resources and methods I've used and recommend, only if you feel it works for you too.

Official Documentation

HTML: [HTML: HyperText Markup Language | MDN \(mozilla.org\)](#)

CSS: [CSS: Cascading Style Sheets | MDN \(mozilla.org\)](#)

JS: [JavaScript | MDN \(mozilla.org\)](#)

Node.js: [Documentation | Node.js \(nodejs.org\)](#)

Flutter: [Flutter documentation | Flutter](#)

Guides:

HTML, CSS, JS, Node.js: [W3Schools](#)

HTML, CSS, JS, Node.js: [the odin project](#)

YouTube

Codevolution: <https://www.youtube.com/@Codevolution>

The Net Ninja: <https://www.youtube.com/c/TheNetNinja>

Codedamn: <https://www.youtube.com/c/codedamn>

Submission

Here at Monday Morning, we take deadlines very seriously and tardiness is not acceptable. For any of you who are unable to do the task within the deadline, due to any legitimate reason, reach out to the Technical Coordinator (contact details given below).

You must complete and submit at least 1 sub-task, from the given 3 sub-tasks, **before 2 April 2023 11:59:59 PM**. You may choose to continue with a second task post this deadline and submit it prior to the next round, however, the first sub-task must be submitted by the deadline.

Submission Method:

1. Create a new public repository on GitHub. Ensure it is public.
2. Upload your final code to that repository.
3. Fill the [google form](#), make sure to fill the form **before 2 April 2023 11:59:59 PM**.

With Regards,

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