

# Problem -1

Link - <https://github.com/tablecheck/tablecheck-2020-general-engineering-assignment>

There are mainly two subsections to the problem. One is to **Deploy a JSON API** and the other is to **Set up an HTML page**. The programming language used is **JavaScript**. For managing the application, I have used the help of the [wrangler](#) tool.

## Main Steps:

- Addition of three URLs in the js array and displaying it in JSON when **/link**.
- Using HTMLRewriter to update the page as well as to display the social links.
- Setting the correct **Content-type** accordingly in headers.
- Changing the background color using body handler.

## Output:

- **URL** => Displays HTML page,
- **path(/link)** => Dumps the JSON

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# Problem -2

Link - <https://github.com/tablecheck/tablecheck-2020-systems-engineering-assignment>

Also, two subsections in this problem. **Dumping the contents** and **Displaying the metrics** accordingly. The programming language used is **python**. [Socket](#) library is used for client-server communication and [Click](#) package for the command-line interface. Used **Docker** for packaging the program.

## Main Steps:

- URL Validation
- Routing based on parameters(URL, Profile)
- Socket connection establishment between client and server.
- Displaying metrics
- Packaging the program with docker

## Output:

- Along with URL, if **--profile** argument, metrics will be displayed.
- If the requested path contains **/links**, the JSON dump is done.
- Else, the default response is shown.