# TP 2: HTML (Hypertext Markup Language)

1. Create an empty repository on GitHub.

2. Clone your newly created repository on your system.

3. Create an empty file inside this folder, and name it `index.html`.

4. Within the created folder, create `/res/images/` directory, i.e., a folder named `res`, then, within `res` a folder named `images`.

```
main folder
└── res
    └── images
```

5. Download the following images and place them in the /res/images/ directory.

- Favicon.ico: Favicon.ico.
- me.png: me.png.

6. Open the `index.html` and copy the following HTML snippet into it:

```html
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="icon" href="res/images/favicon.ico">
    <title>My Dashboard</title>
  </head>
  <body>
  </body>
</html>
```

7. Save changes in `index.html` and open it using a web browser.

8. Insert the following snippet within the `body` element:

```html
<header>
    <strong>Welcome to your dashboard!</strong>
</header>
```

9. Insert the following snippet before the closing of the `body` tag:

```html
<footer>
    <ul>
        <li>
            <a href="https://www.inpt.ac.ma/">moodle</a>
        </li>
```

```
        <li>
            <a href="https://m.inpt.ac.ma/">Courses</a>
        </li>
    </ul>
</footer>
```

10. Insert the following snippet after the `header` element:

```
<section>
    <div>
        <img src="res/images/me.png" width="128" height="128" alt="My picture">
    </div>
    <div>
        <ul>
            <li>Your name</li>
            <li> A date following this format dd/mm/yyyy</li>
            <li> Software Engineering </li>
        </ul>
    </div>
    <div>
        <strong>2.65</strong>
    </div>
</section>
```

11. Insert the following snippet after the previous `section` element:

```
<section>
    <h1>Courses</h1>
    <table>
        <thead>
        <tr>
            <th>#</th>
            <th>Course Title</th>
            <th>Semester</th>
            <th>Grade</th>
        </tr>
        </thead>
        <tbody>
        <tr>
            <td>1</td>
            <td>Agile software development</td>
            <td>fall</td>
            <td>82</td>
        </tr>
        <tr>
            <td>2</td>
            <td> Systems modelling </td>
            <td>fall</td>
            <td>85</td>
        </tr>
        <tr>
            <td>3</td>
            <td> Requirements Engineering </td>
            <td>fall</td>
            <td>99</td>
```
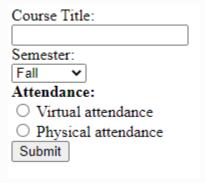
```
        </tr>
        <tr>
            <td>4</td>
            <td> Human Computer Interaction </td>
            <td>fall</td>
            <td>65</td>
        </tr>
        </tbody>
    </table>
</section>
```

12. Let the OIS and Courses links open in a new tab instead of the same one.

13. Add a table footer to the table above.

14. Link the listed course to a correspondant course ( an arbitrary link from internet)

15. Create a form for adding new courses that looks like the following one:

Course Title:

Semester:
Fall

**Attendance:**
○ Virtual attendance
○ Physical attendance
Submit

**Note1:** A semester can be fall or spring.

**Note2:** You just need to create a form; we will make it work later.

16. Validate your page (https://validator.w3.org/) against the HTML5 specification. Note: you can validate it by File upload.

## *The page does not look nice, right?*

### *A good reason why you need to attend to the CSS topic next week :)*

## Do it yourself - not to be completed during the practical session

- Check how you can show information about a link (anchor element `<a href=".."> </a>`) by just hovering over it.
- Check how you can use the anchor element (`<a href=".."> </a>`) as a link to an email, i.e., pressing on the anchor element will trigger the process of sending
- Check how you can use HTML5 to add a caption to your image (me.png).
- Using Chrome Developer Tools, inspect the course wiki (www.inpt.ac.ma), select the Elements tab, and try to understand how main HTML elements are used in the pages.

- Using Chrome Developer Tools, go to the Lighthouse tab, and select only Accessibility from the categories. Then, run Analyze page load. What percentage of accessibility did you receive? Try to read the report to better understand the result.