

Coursework2

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Contents

1	git	3
2	HTML/CSS and JavaScript	4
3	LaTeX	8
4	XML	8
5	Conclusion	9
6	References	9

1 git

Link to the GitHub with the changelog. Learn how to connect to GitHub in different operating systems by communicating with group members.

```
🕒 changelog.txt
1  commit 12e8c825953a0a83ac042eade2b6ed819b6b8886 (HEAD -> master)
2  Author: linyimei <1284558387@qq.com>
3  Date:   Wed Jul 10 23:34:47 2024 +0200
4
5      api.js
6
7  commit 90bd02469772eaa62e85c10f603321a25e4b8a75 (origin/master)
8  Author: linyimei <1284558387@qq.com>
9  Date:   Wed Jul 10 21:44:22 2024 +0200
10
11     api+call.js
12
13  commit e67a22eb615ae13e40f20c71d43649762f37b80b
14  Author: linyimei <1284558387@qq.com>
15  Date:   Wed Jul 10 09:09:04 2024 +0200
16
17     form.html
18
19  commit e14412dadd1d4d7ffa9b644330389ebf5ce240cc
20  Author: linyimei <1284558387@qq.com>
21  Date:   Fri Jul 5 16:47:48 2024 +0200
22
23     LaTeX.tex
24
25  commit 6a552c1cac76c9cc86ade306e22921a7cc097162
26  Author: linyimei <1284558387@qq.com>
27  Date:   Thu Jul 4 17:17:20 2024 +0200
28
29     index.html
30
31  commit 0bd93695db4e34e9d6db9ab37688c190d914acd6
32  Author: linyimei <1284558387@qq.com>
33  Date:   Thu Jul 4 16:56:57 2024 +0200
34
35     add index
36
37  commit df05bcaacd50bc0c850fe4b0178d9a6841707c27
38  Author: linyimei <1284558387@qq.com>
39  Date:   Thu Jul 4 16:55:45 2024 +0200
40
41     add README
```






2 HTML/CSS and JavaScript

HTML pages with forms were created in the simplest form, where you can enter your name, email, and address to get a response.

```
<> form.html >  html
1  <!-- Get Complete Source Code from Pabbly.com -->
2  <!DOCTYPE html>
3  <html lang="en">
4  <head>
5      <meta charset="UTF-8">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <meta http-equiv="X-UA-Compatible" content="ie=edge">
8      <title>Document</title>
9      <link rel="stylesheet" href="styles.css" />
10 </head>
11
12 <body>
13     <div class="form">
14         <form action="/" method="POST">
15             <label>Name: </label>
16             <input type="text" name="dname" value="" /><br />
17             <label>Email: </label>
18             <input type="text" name="demail" value="" /><br />
19             <label>Address: </label>
20             <input type="text" name="daddress" value="" /><br />
21             <button>submit</button>
22         </form>
23     </div>
24 </body>
25 </html>
```

The web page was designed with CSS, and this part was mainly done by Shalika, in whose teaching I did the CSS task.

```

# styles.css >  body
1   label {
2     color:  red;
3   }
4
5   body {
6     margin: 0;
7     padding: 0;
8     font-family: Arial, sans-serif;
9     background-color:  #f0f2f5;
10    display: flex;
11    justify-content: center;
12    align-items: center;
13    height: 100vh;
14  }
15
16  .form {
17    background-color:  #fff;
18    max-width: 400px;
19    padding: 40px;
20    text-align: center;
21    border-radius: 4px;
22    box-shadow: 0 0 10px  rgba(0, 0, 0, 0.1);
23  }

```

For JavaScript part, mainly check the official documents to learn how to fetch api, which I specifically made the code for testing.
Please see the following two images.

```
JS app.js > [?] server > [?] http.createServer() callback
1  // Node.js: HTTP SERVER Handling GET and POST Request
2  // Show HTML Form at GET request.
3  // At POST Request: Grab form data and display them.
4  // Get Complete Source Code from Pabbly.com
5
6
7  var http = require('http');
8  var fs = require('fs');
9
10 var server = http.createServer(function (req, res) {
11
12     if (req.method === "GET") {
13         res.writeHead(200, { "Content-Type": "text/html" });
14         fs.createReadStream("./form.html", "UTF-8").pipe(res);
15     } else if (req.method === "POST") {
16
17         var body = "";
18         req.on("data", function (chunk) {
19             body += chunk;
20         });
21
22         req.on("end", function(){
23             console.log(body);
24             res.writeHead(200, { "Content-Type": "text/html" });
25             res.end(body);
26         });
27     }
28
29 }).listen(3000);
```

```

JS call_api.js >  sendData >  response
1  async function sendData(data) {
2      // Construct a FormData instance
3      const formData = new FormData();
4
5      // Add a text field
6      formData.append("dname", "LLL");
7      formData.append("demail", "LLL@gmail.com");
8      formData.append("daddress", "Leipzig");
9
10     try {
11         const response = await fetch("http://localhost:3000/", {
12             method: "POST",
13             // Set the FormData instance as the request body
14             body: formData,
15         });
16         console.log(await response.text());
17     } catch (e) {
18         console.error(e);
19     }
20 }
21
22 sendData();

```

3 LaTeX

This section is hard to show, please check the files, and this section mainly use the way inserting an image to show code.

4 XML

The XML section, which shows the results when there was errors in the XML, and the version without errors.

XML Parsing Error: mismatched tag. Expected: </Name>.
Location: file:///Users/linxiaobai/Code/cse_coursework_2/group_ecosystem_with_error.xml
Line Number 11, Column 18:

`<Name>Yimei</addName>`

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
-<Ecosystem_Coursework>
  -<GroupProject>
    <Title>Amazon logging Website</Title>
    -<Description>
      This project involves the recreation of a the Amazon logging page for the Ecosystem GroupProject. The website features user authentication, requiring an email and password.
    </Description>
    -<Collaborators>
      -<Collaborator>
        <Name>Yimei</Name>
        <Role>Javascript Developer</Role>
        -<Contribution>
          Yimei focused on developing the Javascript functionality for the website.
        </Contribution>
      </Collaborator>
      -<Collaborator>
        <Name>Shalika</Name>
        <Role>HTML and CSS Developer</Role>
        -<Contribution>
          Shalika primarily worked on the HTML and CSS to design the website.
        </Contribution>
      </Collaborator>
    </Collaborators>
    -<Languages>
      -<Language>
        <Name>HTML</Name>
        <Contributor>Shalika and Yimei</Contributor>
        <Usage> Basic structure of the website</Usage>
      </Language>
      -<Language>
        <Name>CSS</Name>
        <Contributor>Shalika</Contributor>
        <Usage>Used for styling</Usage>
      </Language>
      -<Language>
        <Name>Javascript</Name>
        <Contributor>Yimei</Contributor>
        <Usage>Used for interaction</Usage>
      </Language>
    </Languages>
    -<Name>Git</Name>
```


5 Conclusion

Through this group work, I learnt how to communicate and work with my group members and gained a deeper understanding of both HTML and XML. Looking at the courseware again also gave me new insights into the old knowledge, and successfully separated CSS and HTML into two files.

6 References

Using the Fetch API
Overleaf Documentation