

Assignment: 1A

Code:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>FakeStore</title>
    <link
      rel="stylesheet"
      href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
    />
  </head>
  <body class="bg-light">
    <header class="container-fluid bg-secondary py-4 text-center text-white">
      FakeStore
    </header>

    <main>
      <div class="container mt-5">
        <div class="row">
          <div class="col-md-9">
            <h3>Popular products</h3>
          </div>
          <div class="col-md-3 d-flex justify-content-end">
            <button class="btn btn-lg">&larr;</button>
            <button class="btn btn-lg">&rarr;</button>
          </div>
        </div>

        <div class="row mt-2">
          <div class="col-sm-6 col-md-4 col-xl-3 p-2">
            <div class="bg-white rounded px-lg-5 px-sm-2 py-2">
              
              <p><strong> Mens Casual Premium Slim Fit T-Shirts </strong></p>
              <p>22.3</p>
            </div>
          </div>
          <div class="col-sm-6 col-md-4 col-xl-3 p-2">
            <div class="bg-white rounded px-lg-5 px-sm-2 py-2">
              
            </div>
          </div>
        </div>
      </div>
    </main>
  </body>
</html>
```

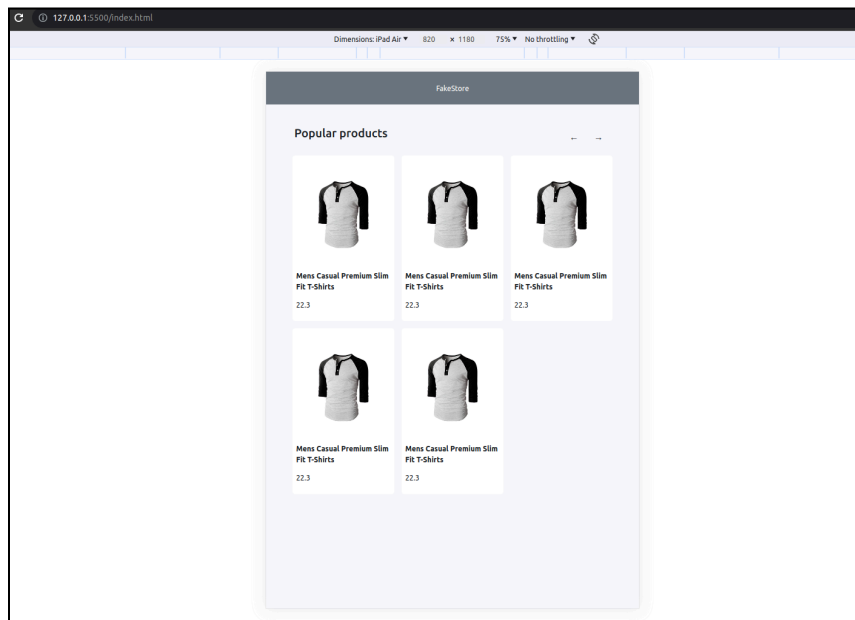
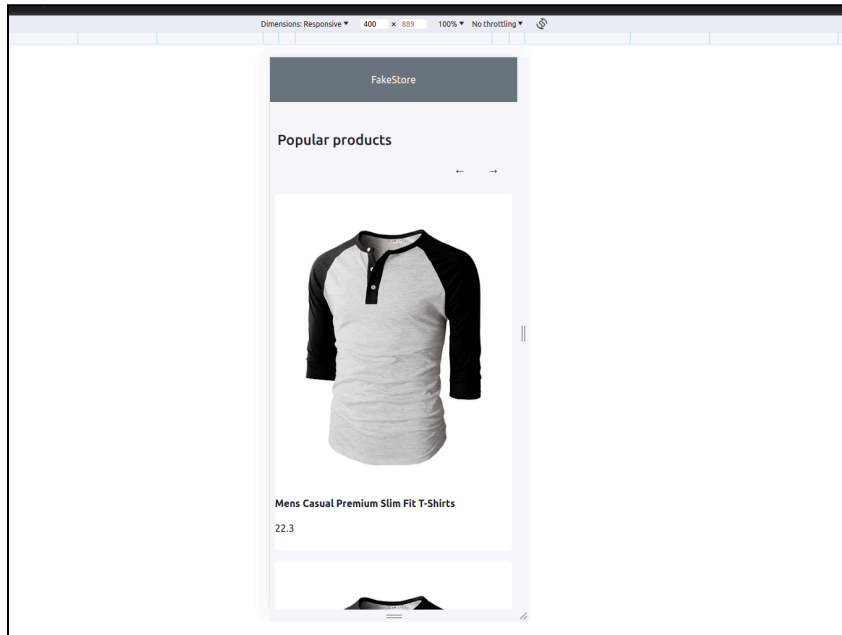
```

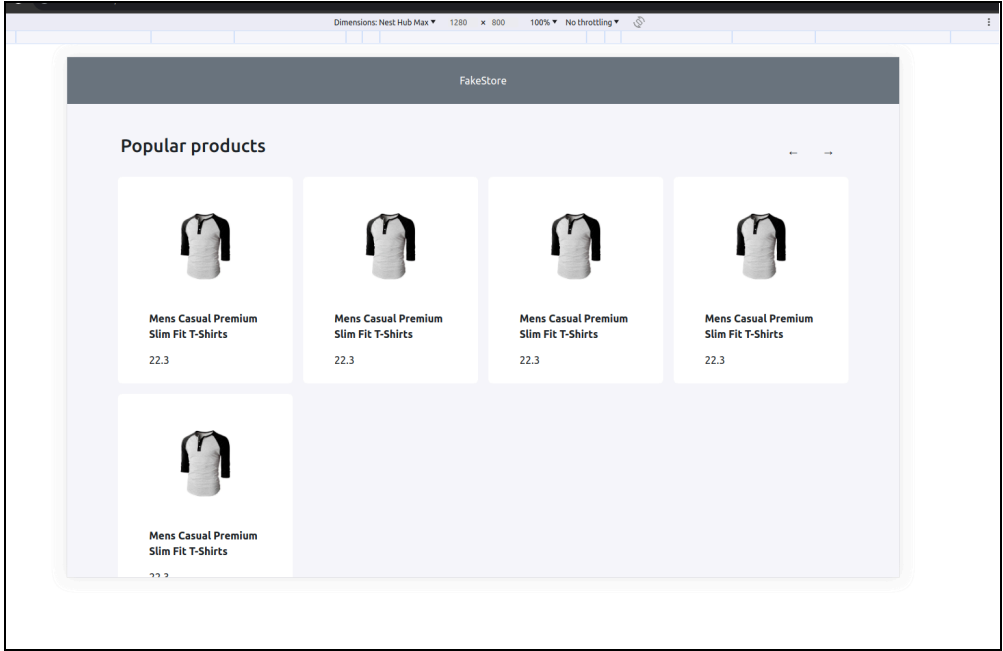
        <p><strong> Mens Casual Premium Slim Fit T-Shirts </strong></p>
        <p>22.3</p>
    </div>
</div>
<div class="col-sm-6 col-md-4 col-xl-3 p-2">
    <div class="bg-white rounded px-lg-5 px-sm-2 py-2">
        
        <p><strong> Mens Casual Premium Slim Fit T-Shirts </strong></p>
        <p>22.3</p>
    </div>
</div>
<div class="col-sm-6 col-md-4 col-xl-3 p-2">
    <div class="bg-white rounded px-lg-5 px-sm-2 py-2">
        
        <p><strong> Mens Casual Premium Slim Fit T-Shirts </strong></p>
        <p>22.3</p>
    </div>
</div>
<div class="col-sm-6 col-md-4 col-xl-3 p-2">
    <div class="bg-white rounded px-lg-5 px-sm-2 py-2">
        
        <p><strong> Mens Casual Premium Slim Fit T-Shirts </strong></p>
        <p>22.3</p>
    </div>
</div>

</div>
</div>
</main>
</body>
</html>

```

Output





Assignment: 1B

Code:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>FakeStore</title>
    <link
      rel="stylesheet"
      href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
    />

    <style>
      .img-wrapper {
        max-width: 100%;
        height: 250px;
        display: flex;
        align-items: center;
        justify-content: center;
      }
    </style>
  </head>
  <body class="bg-light">
    <header class="container-fluid bg-secondary py-4 text-center text-white">
      FakeStore
    </header>

    <main>
      <div class="container mt-5">
        <div class="row">
          <div class="col-md-9">
            <h3>Popular products</h3>
          </div>
          <div class="col-md-3 d-flex justify-content-end align-items-center">
            <button class="btn btn-lg" id="lastPage">&larr;</button>
            <span id="pageContainer"> 1 </span>
            <button class="btn btn-lg" id="nextPage">&rarr;</button>
          </div>
        </div>

        <div class="row mt-2" id="product-container"></div>
      </div>
    </main>
    <script>
      const container = document.getElementById("product-container");
      const pageNum = document.getElementById("pageContainer");
      let page = 1;
```

```

function toFixedIfNecessary(value, dp) {
    return +parseFloat(value).toFixed(dp);
}

function xhrChangeHandler() {
    if (this.readyState == 4) {
        if (this.status == 200) {
            let data = JSON.parse(this.responseText);
            let html = data.products.map(
                (x) => `
```

```

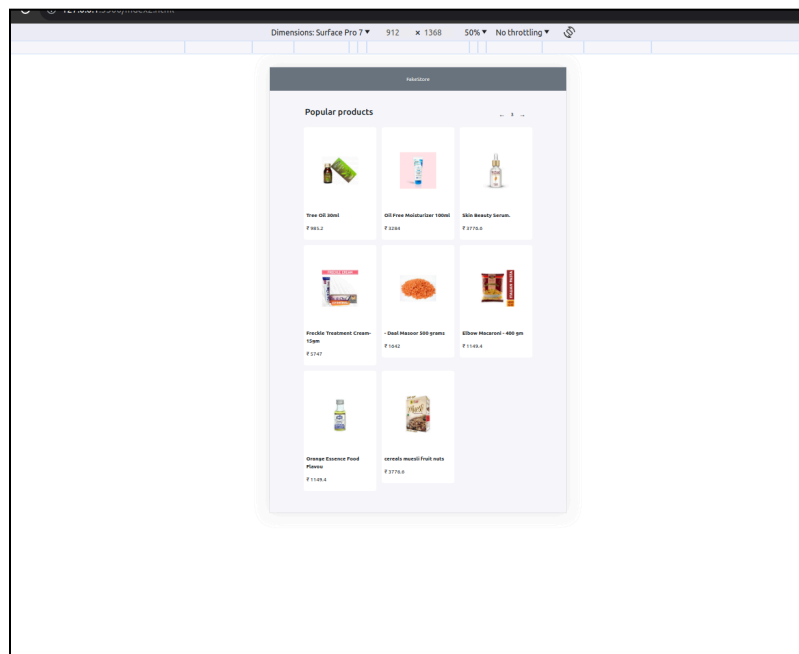
    xhr.onreadystatechange = xhrChangeHandler;

    xhr.send();
}
const np = document.getElementById("nextPage");
const lp = document.getElementById("lastPage");
lp.onclick = lastPage;
np.onclick = nextPage;

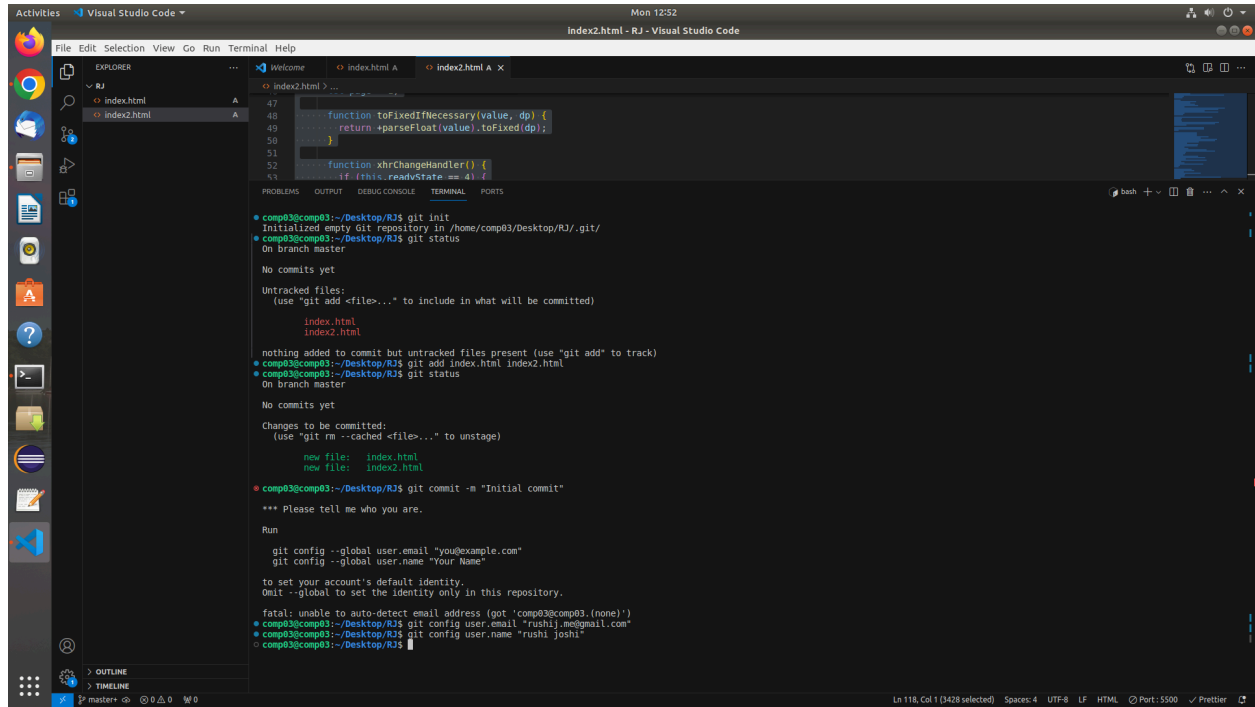
(function () {
    const xhr = new XMLHttpRequest();
    xhr.open("GET", "https://dummyjson.com/products?skip=0&limit=8");
    xhr.onreadystatechange = xhrChangeHandler;
    xhr.send();
})();
</script>
</body>
</html>

```

Output:



Assignment: 2A



The screenshot shows the Visual Studio Code interface. The Explorer panel on the left shows a file named `index2.html`. The Editor panel displays the following JavaScript code:

```
47 function toFixedIfNecessary(value, dp) {
48   return +parseFloat(value).toFixed(dp);
49 }
50
51
52 function xhrChangeHandler() {
53   if (this.readyState == 4) {
54     // ...
55   }
56 }
```

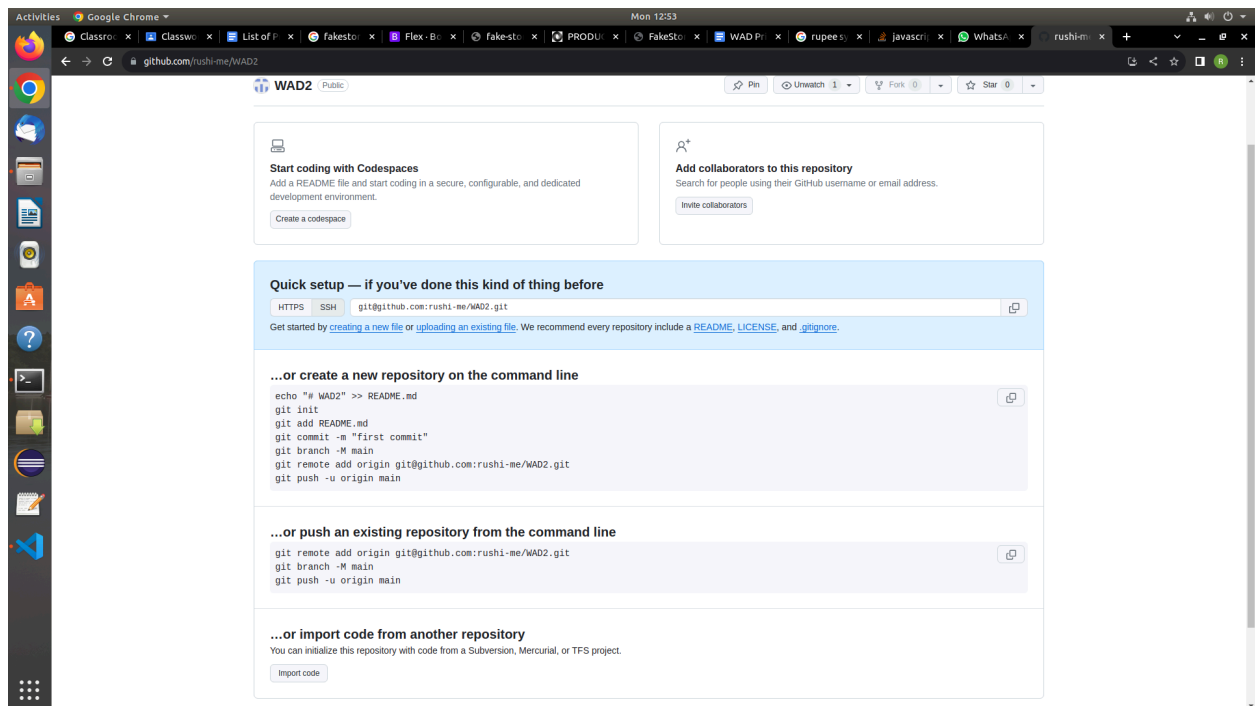
The Terminal panel at the bottom shows the output of the following commands:

```
comp03@comp03:~/Desktop/RJ$ git init
Initialized empty Git repository in /home/comp03/Desktop/RJ/.git/
comp03@comp03:~/Desktop/RJ$ git status
On branch master
No commits yet
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        index.html
        index2.html
nothing added to commit but untracked files present (use "git add" to track)
comp03@comp03:~/Desktop/RJ$ git add index.html index2.html
comp03@comp03:~/Desktop/RJ$ git status
On branch master
No commits yet
Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   index.html
        new file:   index2.html
comp03@comp03:~/Desktop/RJ$ git commit -m "Initial commit"
*** Please tell me who you are.

Run

git config --global user.email "you@example.com"
git config --global user.name "Your Name"

to set your account's default identity.
Omit --global to set the identity only in this repository.
fatal: unable to auto-detect email address (got 'comp03@comp03.(none)')
comp03@comp03:~/Desktop/RJ$ git config user.email "rushij.me@gmail.com"
comp03@comp03:~/Desktop/RJ$ git config user.name "rushij joshi"
comp03@comp03:~/Desktop/RJ$
```



Visual Studio Code interface showing a terminal window with the following commands and output:

```
comp@comp3:~/Desktop/RJS$ git commit -m "Initial commit"
[master (root-commit) a2baf13] Initial commit
2 files changed, 202 insertions(+)
create mode 100644 index.html
create mode 100644 index2.html
comp@comp3:~/Desktop/RJS$ git remote add origin git@github.com:rushi-me/WAD2.git
comp@comp3:~/Desktop/RJS$ git branch -M main
comp@comp3:~/Desktop/RJS$ git push -u origin main
The authenticity of host 'github.com (20.207.73.82)' can't be established.
ECDSA key fingerprint is SHA256:p20AMN1C1J7we10trVC98/R1BUFWu3/LykguIQM.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'github.com:20.207.73.82' (ECDSA) to the list of known hosts.
git@github.com: Permission denied (publickey).
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
comp@comp3:~/Desktop/RJS$ ssh-keygen -t ed25519 -C "rushi.me@gmail.com"
Generating public/private ed25519 key pair.
Enter file in which to save the key (/home/comp3/.ssh/id_ed25519):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/comp3/.ssh/id_ed25519.
Your public key has been saved in /home/comp3/.ssh/id_ed25519.pub.
The key fingerprint is:
SHA256:8qscqCWNY/27cPKPEWJ3vjtY717yQmX9SAUPBNlg rushi.me@gmail.com
The key's randomart image is:
+--[ED25519 256]--+
|
| o = o o
| o + + o o
| o = S = .
| o + + o + .
| E + + + B . .
| . = + + + .
| . o + o o .
|-----[SHA256]-----
comp@comp3:~/Desktop/RJS$ git push -u origin main
Counting objects: 4, done.
Delta compression using up to 12 threads.
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 2.02 KiB | 1.01 MiB/s, done.
Total 4 (delta 0), reused 0 (delta 0)
To github.com:rushi-me/WAD2.git
 * [new branch] main -> main
```

Visual Studio Code interface showing a terminal window with the following commands and output:

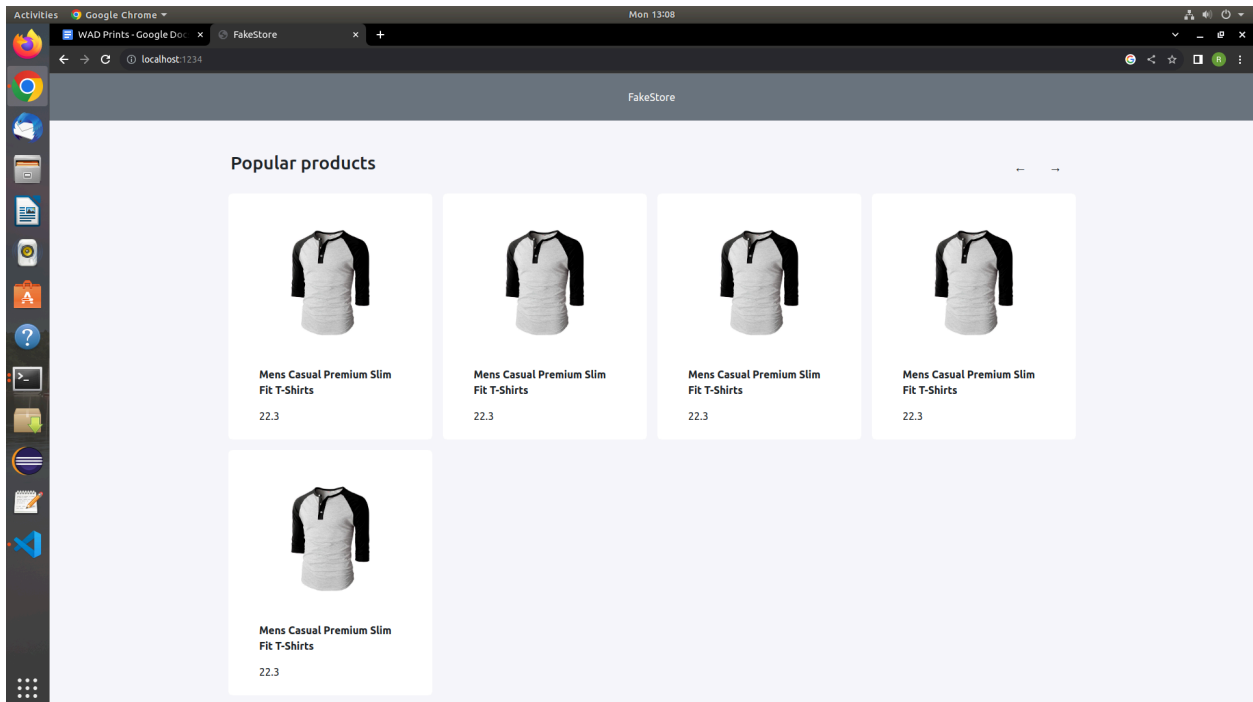
```
2 files changed, 202 insertions(+)
create mode 100644 index.html
create mode 100644 index2.html
comp@comp3:~/Desktop/RJS$ git remote add origin git@github.com:rushi-me/WAD2.git
comp@comp3:~/Desktop/RJS$ git branch -M main
comp@comp3:~/Desktop/RJS$ git push -u origin main
The authenticity of host 'github.com (20.207.73.82)' can't be established.
ECDSA key fingerprint is SHA256:p20AMN1C1J7we10trVC98/R1BUFWu3/LykguIQM.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'github.com:20.207.73.82' (ECDSA) to the list of known hosts.
git@github.com: Permission denied (publickey).
fatal: Could not read from remote repository.

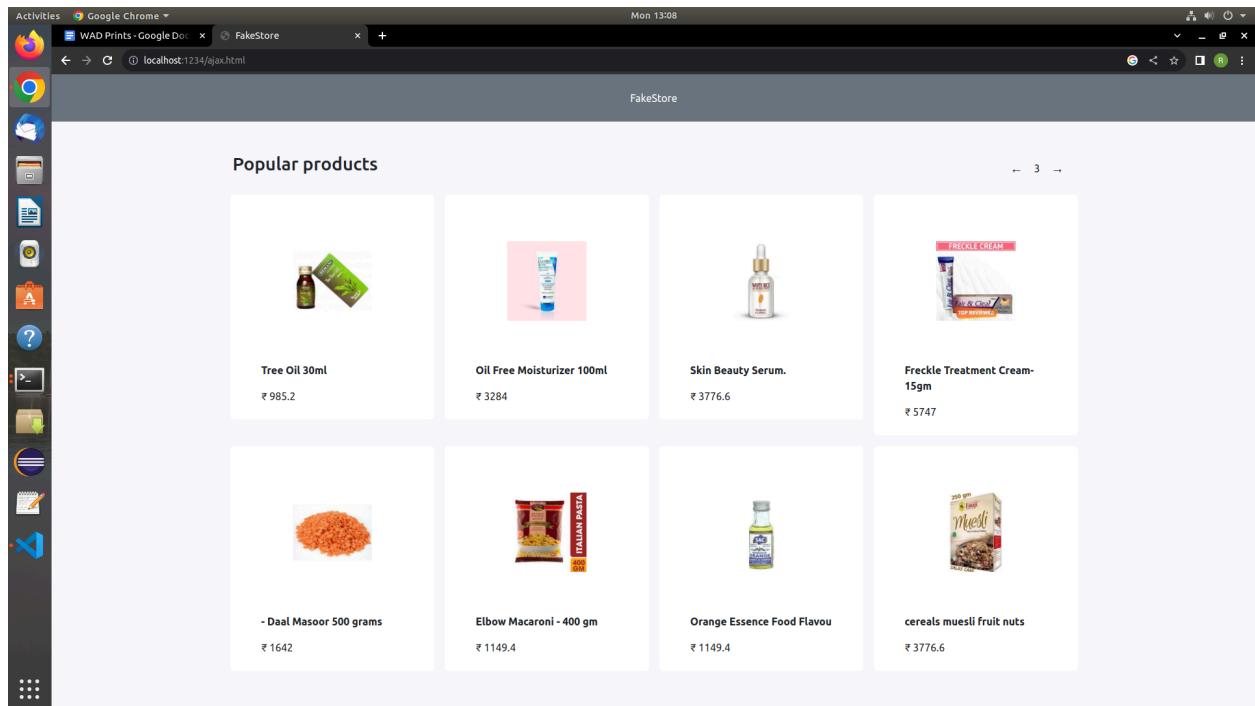
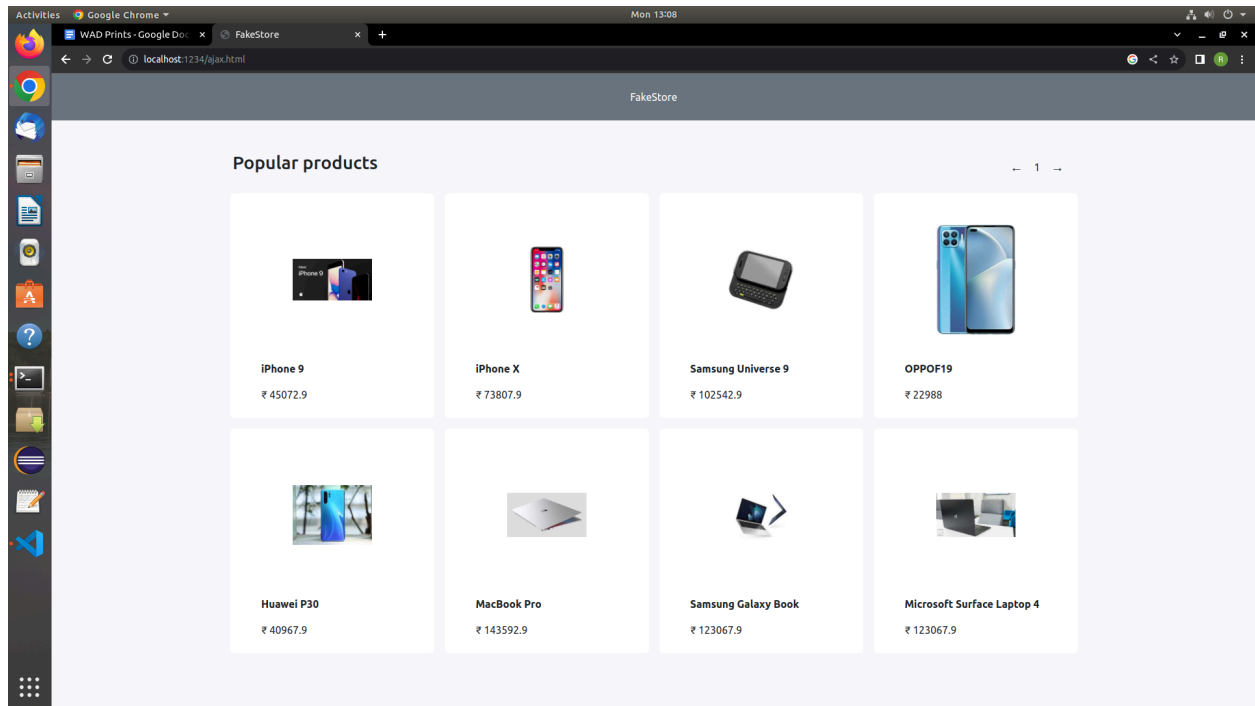
Please make sure you have the correct access rights
and the repository exists.
comp@comp3:~/Desktop/RJS$ ssh-keygen -t ed25519 -C "rushi.me@gmail.com"
Generating public/private ed25519 key pair.
Enter file in which to save the key (/home/comp3/.ssh/id_ed25519):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/comp3/.ssh/id_ed25519.
Your public key has been saved in /home/comp3/.ssh/id_ed25519.pub.
The key fingerprint is:
SHA256:8qscqCWNY/27cPKPEWJ3vjtY717yQmX9SAUPBNlg rushi.me@gmail.com
The key's randomart image is:
+--[ED25519 256]--+
|
| o = o o
| o + + o o
| o = S = .
| o + + o + .
| E + + + B . .
| . = + + + .
| . o + o o .
|-----[SHA256]-----
comp@comp3:~/Desktop/RJS$ git push -u origin main
Counting objects: 4, done.
Delta compression using up to 12 threads.
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 2.02 KiB | 1.01 MiB/s, done.
Total 4 (delta 0), reused 0 (delta 0)
To github.com:rushi-me/WAD2.git
 * [new branch] main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.
comp@comp3:~/Desktop/RJS$
```

The screenshot shows a web browser window with the GitHub repository page for 'rushi-me / WAD2'. The browser's address bar shows the URL 'https://github.com/rushi-me/WAD2/new/main?filename=README.md'. The repository page includes a header with the repository name and a search bar. Below the header, there are tabs for 'Code', 'Issues', 'Pull requests', 'Actions', 'Projects', 'Wiki', 'Security', 'Insights', and 'Settings'. The main content area shows the repository's commit history, with a table listing commits by 'rushi joshi'. The 'index.html' and 'index2.html' files are listed as initial commits. Below the commit history, there is a section for the README, which currently displays a message to 'Add a README'. The right-hand sidebar contains several sections: 'About' (No description, website, or topics provided), 'Activity' (0 stars, 1 watching, 0 forks), 'Releases' (No releases published, link to 'Publish a new release'), 'Packages' (No packages published, link to 'Publish your first package'), 'Languages' (HTML 100.0%), and 'Suggested workflows' (SLSA Generic generator, link to 'Configure').

Assignment: 2B

```
Activities Terminal Mon 13:08 comp03@comp03: ~/Desktop/RJ
File Edit View Search Terminal Help
comp03@comp03:~/Desktop/RJ$ sudo docker pull nginx
Using default tag: latest
latest: Pulling from library/nginx
Digest: sha256:6db391d1c0cfb30588ba0bf72ea999404f2764feb0f1f196acd5867ac7efa7e
Status: Image is up to date for nginx:latest
docker.io/library/nginx:latest
comp03@comp03:~/Desktop/RJ$ sudo docker run -d --name=nginx-instance -p 1234:80 -v ~/Desktop/RJ:/usr/share/nginx/html nginx
dbb66e85d29750249f5957e0f0b64f91dba30c0144f9c9365324f8f137812289
comp03@comp03:~/Desktop/RJ$ sudo docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED    STATUS    PORTS                               NAMES
dbb66e85d297   nginx    "/docker-entrypoint..." 4 seconds ago Up 4 seconds 0.0.0.0:1234->80/tcp, :::1234->80/tcp nginx-instance
comp03@comp03:~/Desktop/RJ$
```





Assignment: 2C

Register your account	Sign in to your account
<p>Name</p> <input type="text"/>	<p>Email address</p> <input type="text"/>
<p>Email address</p> <input type="text"/>	<p>Password</p> <input type="text"/>
<p>Password</p> <input type="text"/>	<p>Forgot password?</p>
<p>Register</p>	<p>Sign in</p>
<p>Already a member? Sign in now</p>	<p>Not a member? Register now</p>

Welcome, MSD

Logged in as:
dhoni.me@gmail.com

[Logout](#)

Bio:

I am Mahendra Singh Dhoni, known to many as M.S. Dhoni. Born on July 7, 1981, in Ranchi, India, cricket has been my passion since childhood. From a small-town boy to leading the Indian cricket team to glorious victories, my journey has been filled with challenges and triumphs. Renowned for my calm demeanor under pressure.

[Update](#)

Assignment: 3A

Code:

```
const express = require('express');
const path = require('path');

const app = express();
const port = 3002;

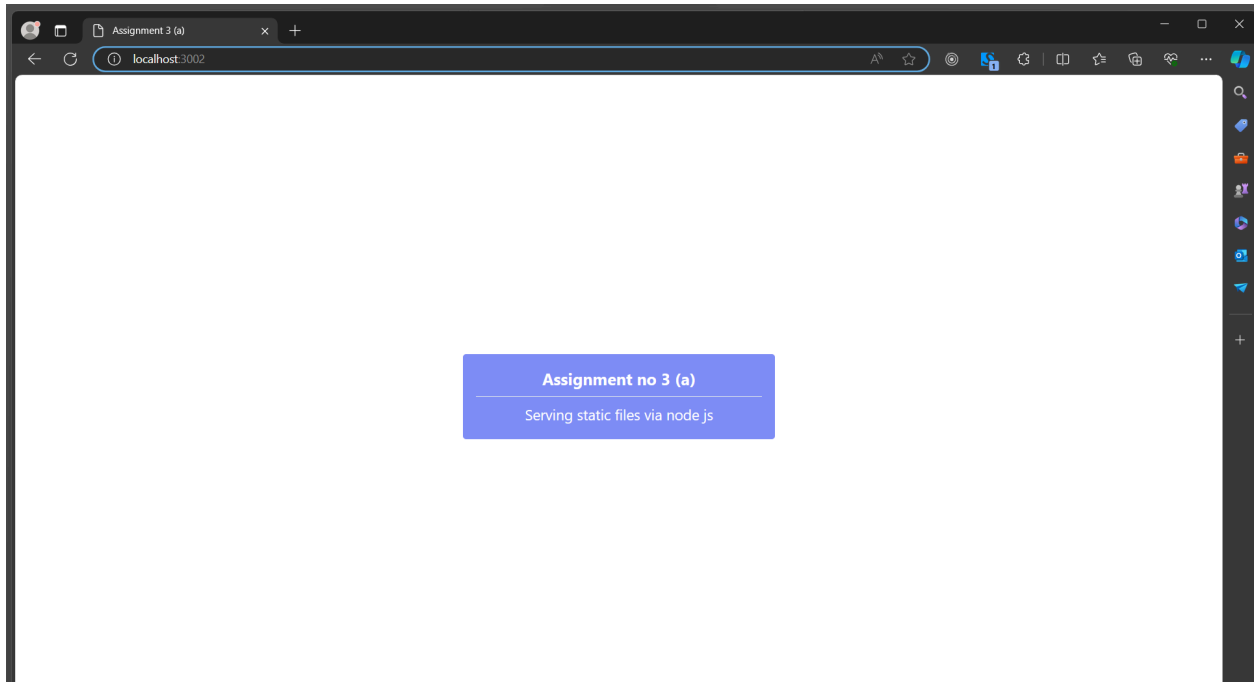
// Define the directory where your static files are located
const staticDir = path.join(__dirname, 'public');

// Serve static files from the 'public' directory
app.use(express.static(staticDir));

// Start the server
app.listen(port, () => {
  console.log(`Server is running on http://localhost:${port}`);
});
```

Output:

```
Node.js v21.1.0
[nodemon] app crashed - waiting for file changes before starting...
[nodemon] restarting due to changes...
[nodemon] starting `node index.js`
directory-name 📁 C:\Users\omkar\Desktop\WAD\express-api
Server listening on port 3000
GET /index.html 200 227 - 12.770 ms
GET /favicon.ico 404 150 - 4.721 ms
GET /index. 404 145 - 1.380 ms
GET / 200 227 - 2.351 ms
GET / 200 402 - 2.478 ms
GET / 200 426 - 2.309 ms
GET / 200 427 - 1.550 ms
GET / 304 - - 5.649 ms
GET / 304 - - 0.785 ms
GET / 200 472 - 2.737 ms
GET / 200 474 - 3.026 ms
GET / 200 491 - 2.646 ms
GET / 200 591 - 2.421 ms
GET / 200 667 - 1.821 ms
GET / 200 680 - 2.009 ms
□
```



Assignment: 3B

Code:

```
.env JS db.js x
express-api > JS db.js > [x] User
1 import mongoose from "mongoose";
2 import { config } from "dotenv";
3 import { hashPassword } from "../auth.js";
4 config();
5
6 await mongoose.connect(process.env.MONGO_URL, {
7   authSource: "admin",
8   user: process.env.MONGO_USER,
9   pass: process.env.MONGO_PWD
10 });
11
12 const User = mongoose.model('USER', {
13   name: String,
14   email: String,
15   password: String,
16   bio: String
17 });
```

WAD

- express-api
 - .env
 - .gitignore
 - JS auth.js
 - JS db.js
 - JS index.js
 - package-lock.json
 - package.json
 - .gitignore
 - package-lock.json
 - README.md
 - sample.http

```
const FindUserByEmail = async (email) => {
  const user = await User.findOne({email})
  return user
}

const UpdateUserBio = async (email, bio) => {
  const result = await User.updateOne({email}, {bio});
  return result.modifiedCount;
}

const CreateUser = async (input) => {
  const newUser = new User({
    name: input.name,
    email: input.email,
    password: hashPassword(input.password),
    bio: input.bio
  })
}
```

express-api

- .env
- .gitignore
- JS auth.js
- JS db.js
- JS index.js
- package-lock.json
- package.json
- .gitignore
- package-lock.json
- README.md
- sample.http

VS CODE PETS


```
express-api > JS index.js > ...  
1 import express from "express";  
2 import morgan from "morgan";  
3 import { FindUserByEmail, CreateUser } from "./db.js";  
4 import { comparePassword, generateToken } from "./auth.js";  
5  
6 const app = express();  
7 app.use(morgan('tiny'));  
8 app.use(express.json());  
9  
10 app.post("/login", async (req, res)=>{  
11   const {email, password} = req.body;  
12   const user = await FindUserByEmail(email);  
13   if(user){  
14     if(comparePassword(password, user.password)){  
15       res.send({message: "Login successful", token:  
16         user.email, name: user.name});  
17     }else{  
18       res.status(401).send({message: "Invalid cred
```

```
18     }  
19   }else{  
20     res.status(404).send({message: "User not found"}  
21   }  
22 });  
23  
24 app.post("/register", async (req, res)=>{  
25   const {name, email, password, bio} = req.body;  
26   // validate the input  
27   if(!name || !email || !password){  
28     res.status(400).send({message: "Invalid input"}  
29   }  
30   // create the user  
31   const user = await CreateUser({name, email, password  
32   console.log(user)  
33   res.send({message: "Registered successfully", token:  
34     email, name: name});  
35 }
```

Send Request

✓ *POST* http://localhost:3002/register

Content-Type: application/json

✓ {
 "name": "test2",
 "email": "test2@yopmail.com",
 "password": "test12"
}

###

Send Request

POST http://localhost:3002/login

✦ Content-Type: application/json

✓ {
 "email": "test2@yopmail.com",
 "password": "test12"
}