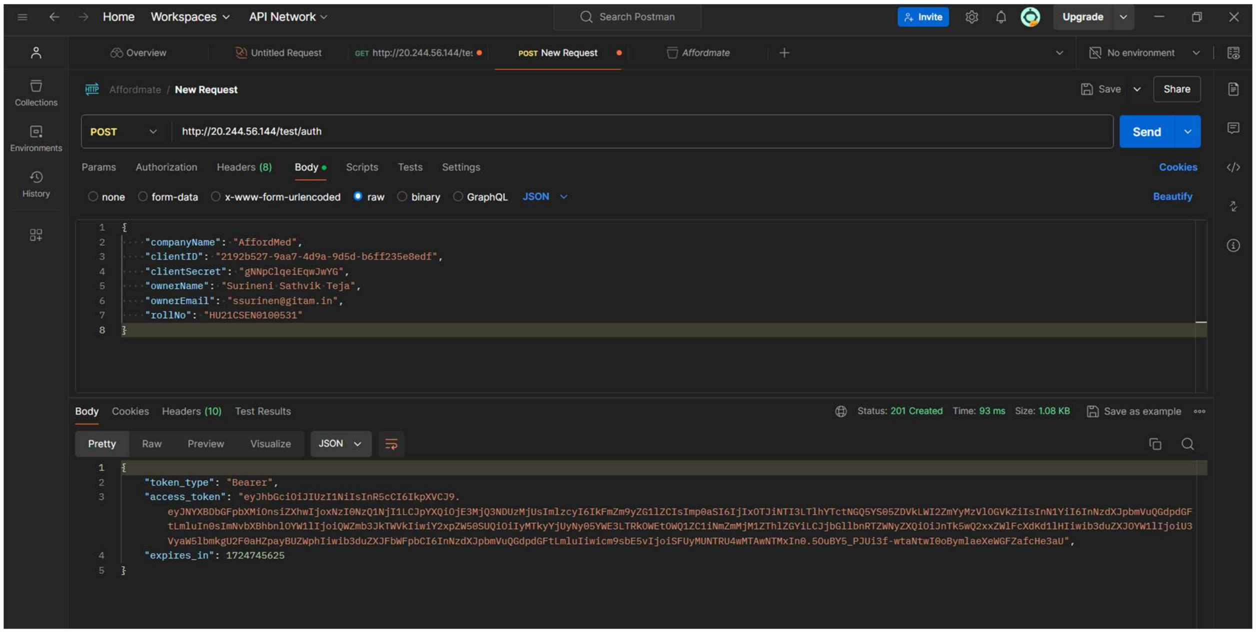
Name:Surineni Sathvik teja

RollNo:HU21CSEN0100531

Question 1

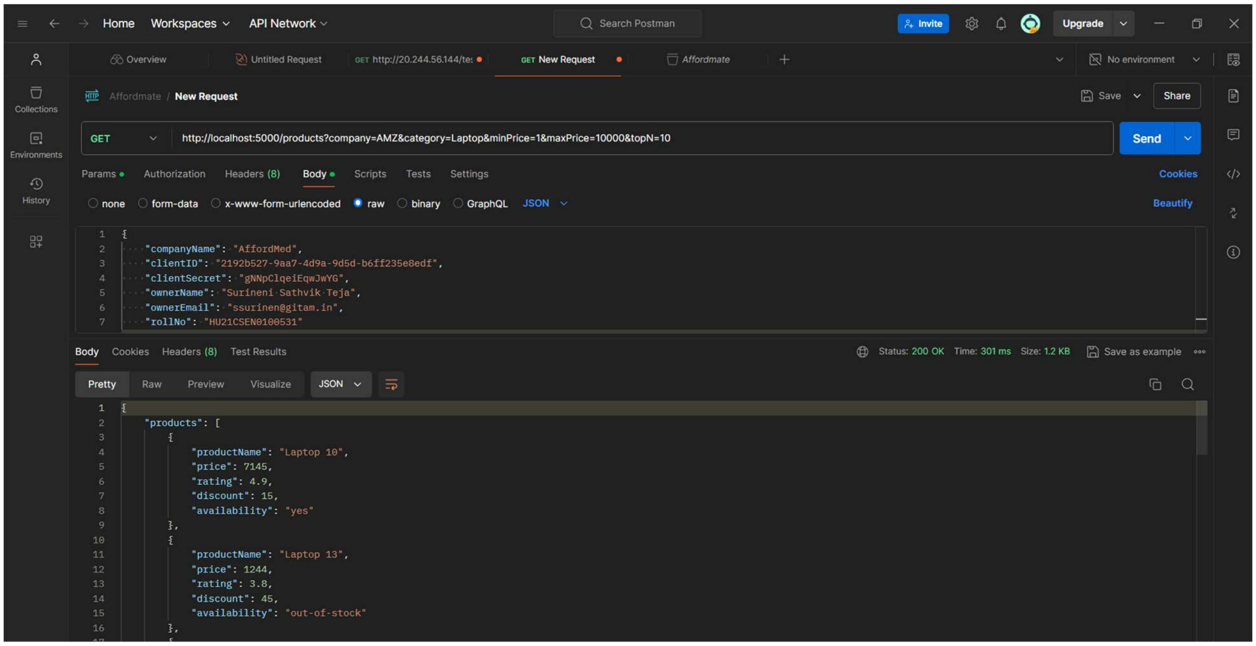


POST http://20.244.56.144/test/auth

```
{
    "companyName": "AffordMed",
    "clientID": "2192b527-9aa7-4d9a-9d5d-b6ff235e8edf",
    "clientSecret": "gNNpClqeiEqwJwYG",
    "ownerName": "Surineni Sathvik Teja",
    "ownerEmail": "ssurinen@gitam.in",
    "rollNo": "HU21CSEN0100531"
}
```

Status: 201 Created Time: 93 ms Size: 1.08 KB

```
{
    "token_type": "Bearer",
    "access_token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.
        eyJNYXBDbGFpbXMiOnsiZXhwIjoxNzI0NzQ1NjI1LCJpYXQiOjE3MjQ3NDUzMjUsImlzcyI6IkFmZm9yZG1lZCIsImp0aSI6IjIxOTJiNTI3LTlhYTctNGQ5YS05ZDVkLWI2ZmYyMzVlOGVkZiIsInN1YiI6InNzdXJpbmVuQGdpdGF
        tLmluIn0sImNvbXBhbnlOYW1lIjoiQWZmb3JkTWVkIiwiY2xpZW50SUQiOiIyMTkyYjUyNy05YWE3LTRkOWEtOWQ1ZC1iNmZmMjM1ZThlZGYiLCJjbGllbnRTZWNyZXQiOiJnTk5wQ2xxZWlFcXdKd1lHIiwib3duZXJOYW1lIjoiU3
        VyaW5lbmkgU2F0aHZpayBUZWphIiwib3duZXJFbWFpbCI6InNzdXJpbmVuQGdpdGFtLmluIiwicm9sbE5vIjoiSFUyMUNTRU4wMTAwNTMxIn0.5OuBY5_PJUi3f-wtaNtwI0oBymlaeXeWGFZafcHe3aU",
    "expires_in": 1724745625
}
```

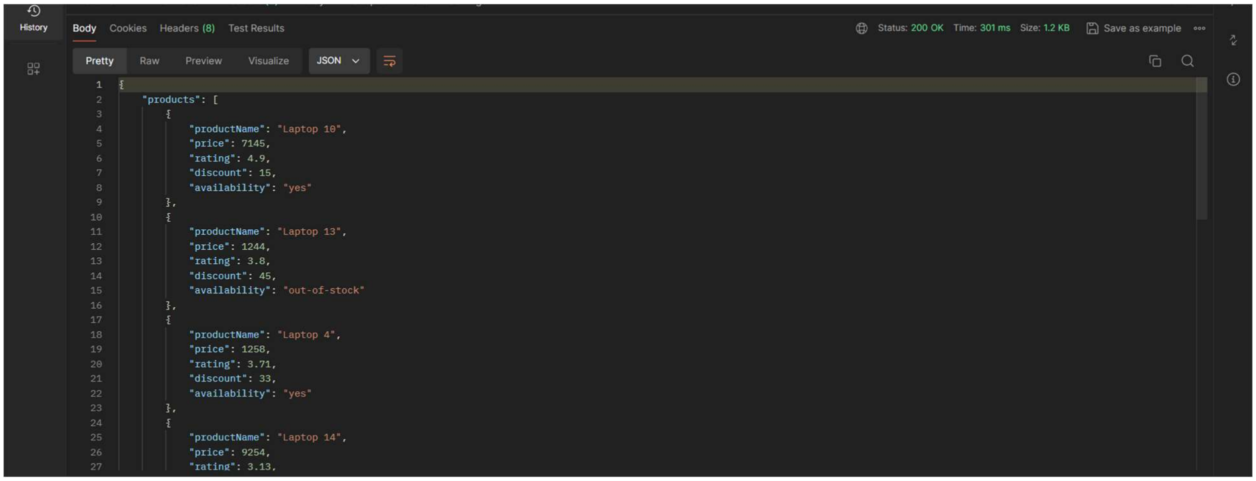


GET http://localhost:5000/products?company=AMZ&category=Laptop&minPrice=1&maxPrice=10000&topN=10

```
{
    "companyName": "AffordMed",
    "clientID": "2192b527-9aa7-4d9a-9d5d-b6ff235e8edf",
    "clientSecret": "gNNpClqeiEqwJwYG",
    "ownerName": "Surineni Sathvik Teja",
    "ownerEmail": "ssurinen@gitam.in",
    "rollNo": "HU21CSEN0100531"
```

Status: 200 OK Time: 301 ms Size: 1.2 KB

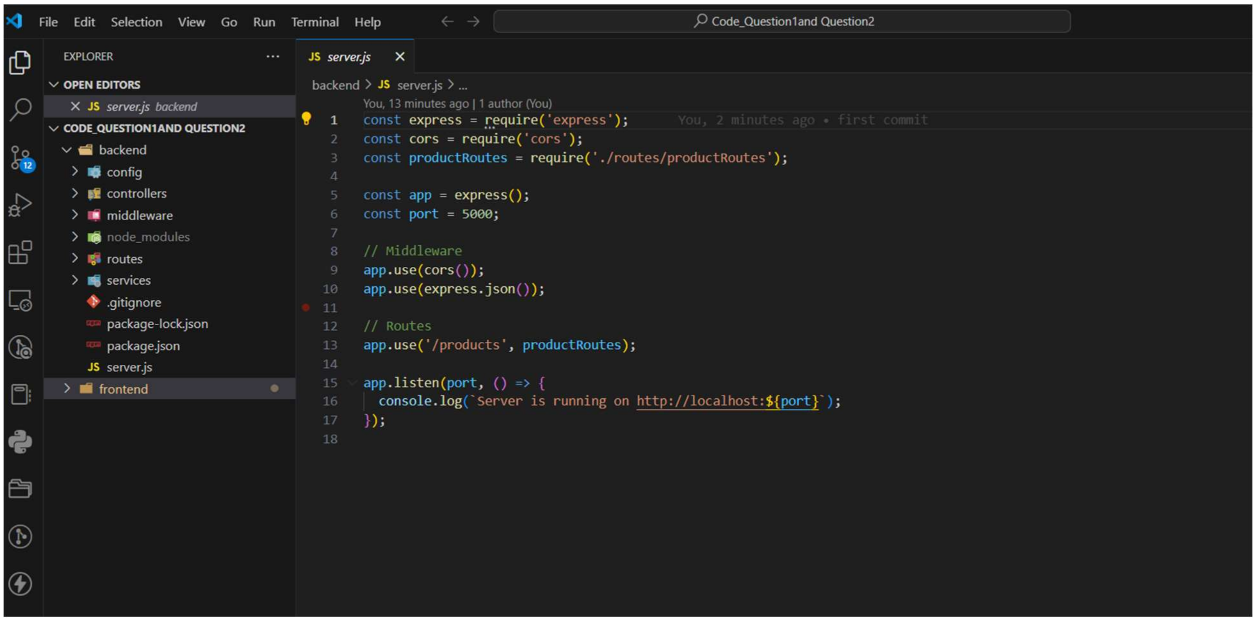
```
{
    "products": [
        {
            "productName": "Laptop 10",
            "price": 7145,
            "rating": 4.9,
            "discount": 15,
            "availability": "yes"
        },
        {
            "productName": "Laptop 13",
            "price": 1244,
            "rating": 3.8,
            "discount": 45,
            "availability": "out-of-stock"
        },
```



Status: 200 OK Time: 301 ms Size: 1.2 KB

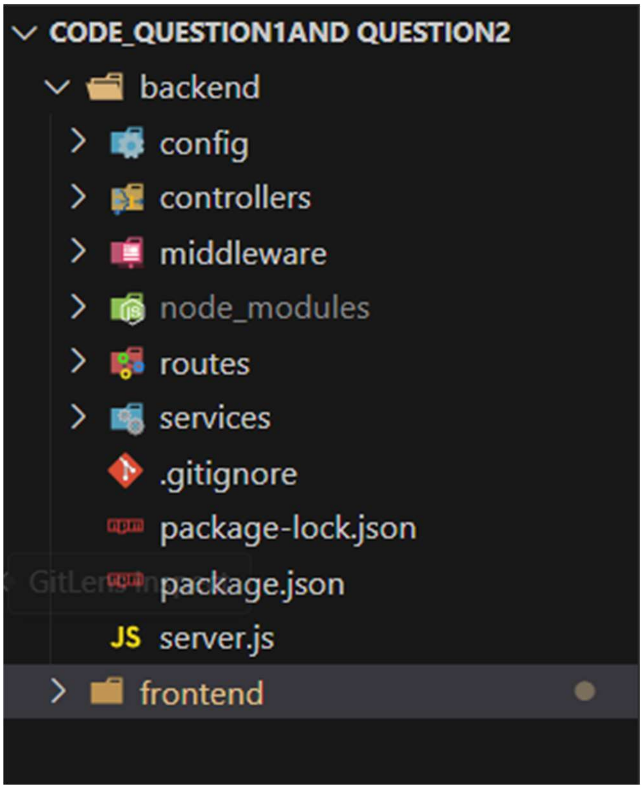
```
{
    "products": [
        {
            "productName": "Laptop 10",
            "price": 7145,
            "rating": 4.9,
            "discount": 15,
            "availability": "yes"
        },
        {
            "productName": "Laptop 13",
            "price": 1244,
            "rating": 3.8,
            "discount": 45,
            "availability": "out-of-stock"
        },
        {
            "productName": "Laptop 4",
            "price": 1258,
            "rating": 3.71,
            "discount": 33,
            "availability": "yes"
        },
        {
            "productName": "Laptop 14",
            "price": 9254,
            "rating": 3.13,
```

Code



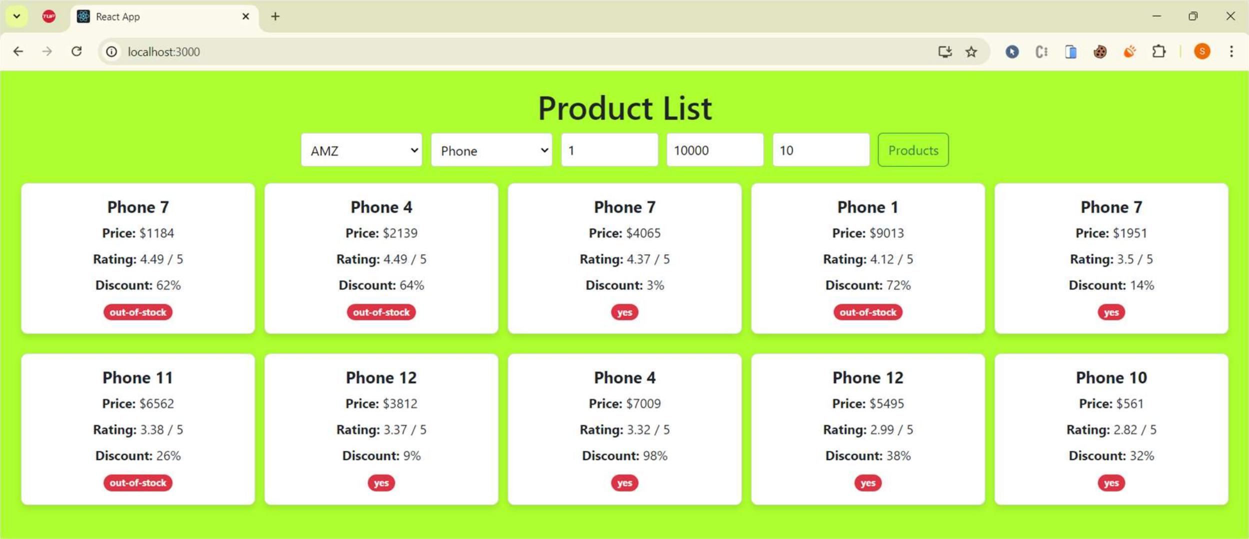
```javascript
const express = require('express');
const cors = require('cors');
const productRoutes = require('./routes/productRoutes');

const app = express();
const port = 5000;

// Middleware
app.use(cors());
app.use(express.json());

// Routes
app.use('/products', productRoutes);

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

```

Folder structure



```
CODE_QUESTION1AND QUESTION2
  backend
    > config
    > controllers
    > middleware
    > node_modules
    > routes
    > services
    .gitignore
    package-lock.json
    package.json
    server.js
  > frontend
```

Question-2



Product List

Phone 7
Price: $1184
Rating: 4.49 / 5
Discount: 62%
out-of-stock

Phone 4
Price: $2139
Rating: 4.49 / 5
Discount: 64%
out-of-stock

Phone 7
Price: $4065
Rating: 4.37 / 5
Discount: 3%
yes

Phone 1
Price: $9013
Rating: 4.12 / 5
Discount: 72%
out-of-stock

Phone 7
Price: $1951
Rating: 3.5 / 5
Discount: 14%
yes

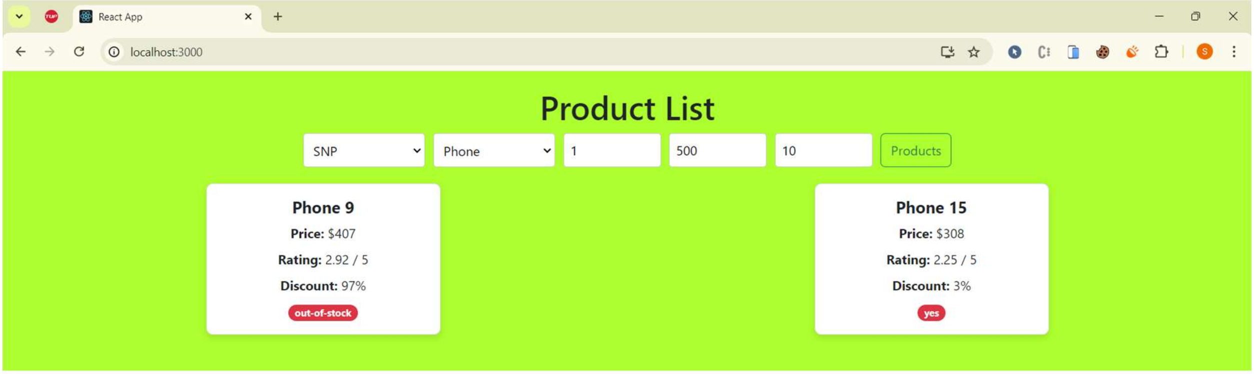
Phone 11
Price: $6562
Rating: 3.38 / 5
Discount: 26%
out-of-stock

Phone 12
Price: $3812
Rating: 3.37 / 5
Discount: 9%
yes

Phone 4
Price: $7009
Rating: 3.32 / 5
Discount: 98%
yes

Phone 12
Price: $5495
Rating: 2.99 / 5
Discount: 38%
yes

Phone 10
Price: $561
Rating: 2.82 / 5
Discount: 32%
yes



Product List

SNP ▾ Phone ▾ 1 500 10 Products

Phone 9

Price: $407

Rating: 2.92 / 5

Discount: 97%

out-of-stock

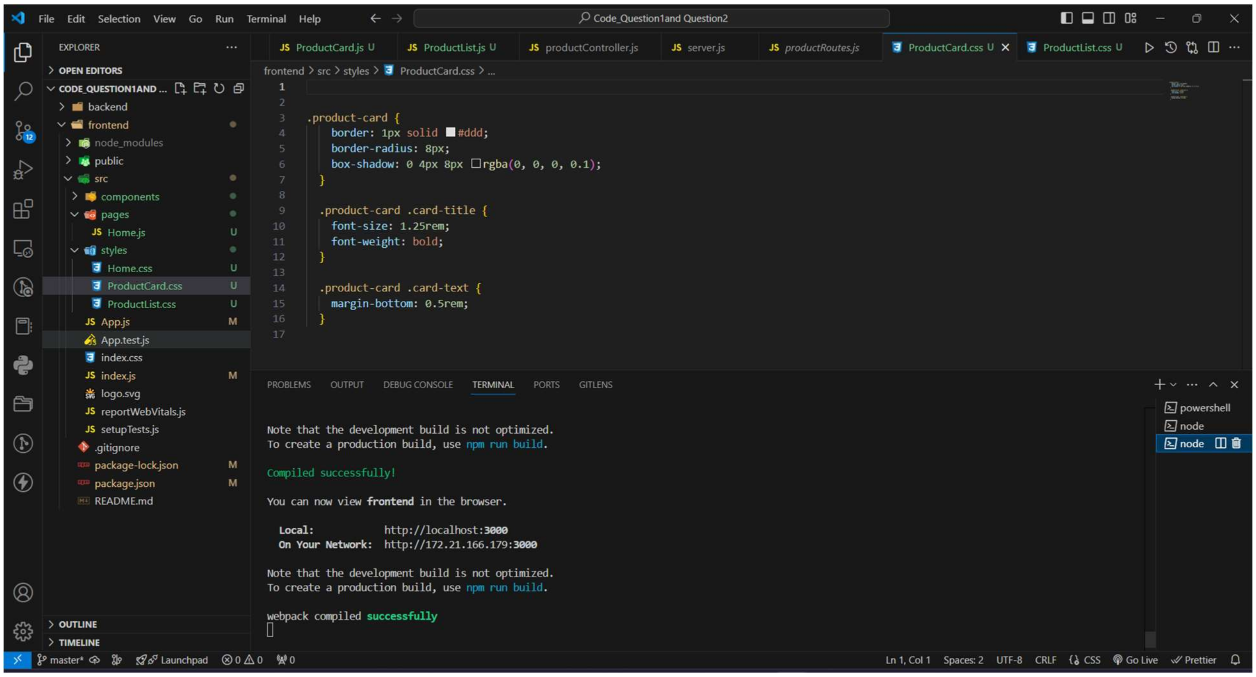
Phone 15

Price: $308

Rating: 2.25 / 5

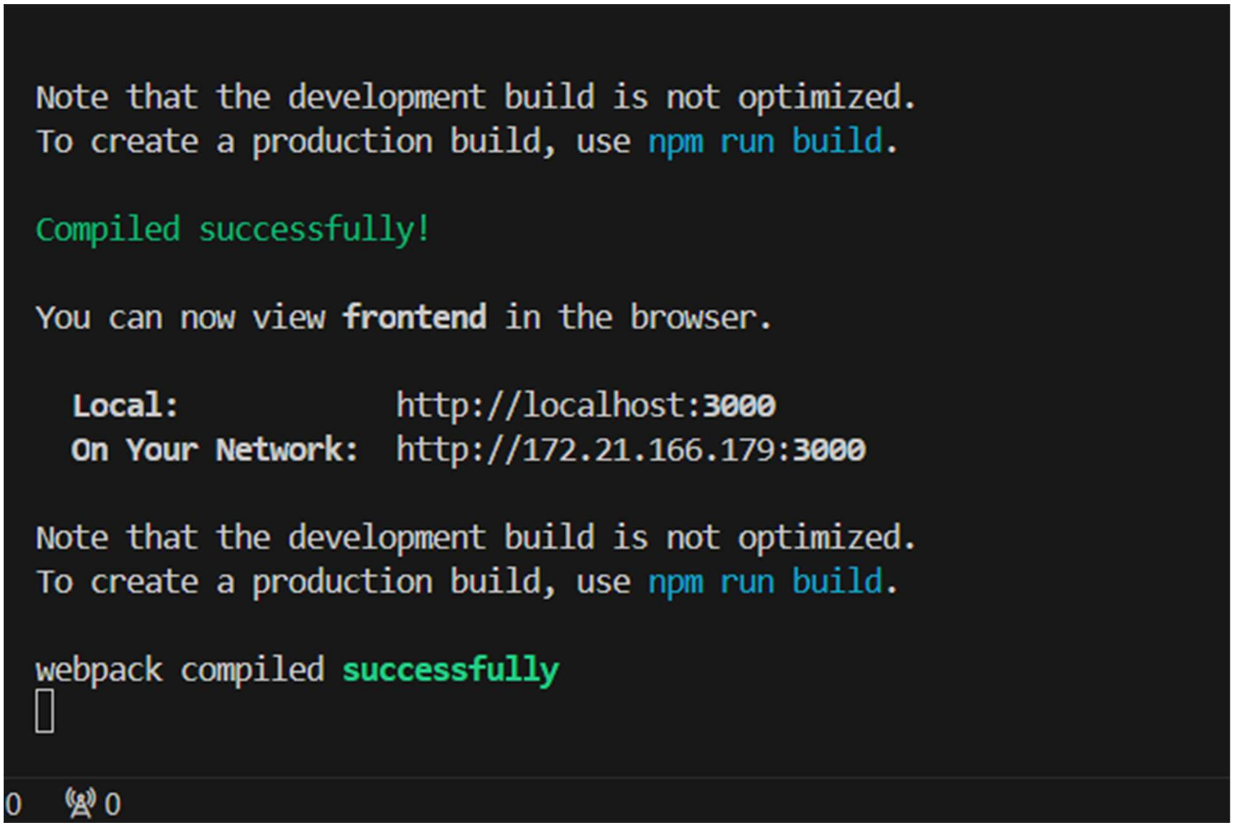
Discount: 3%

yes

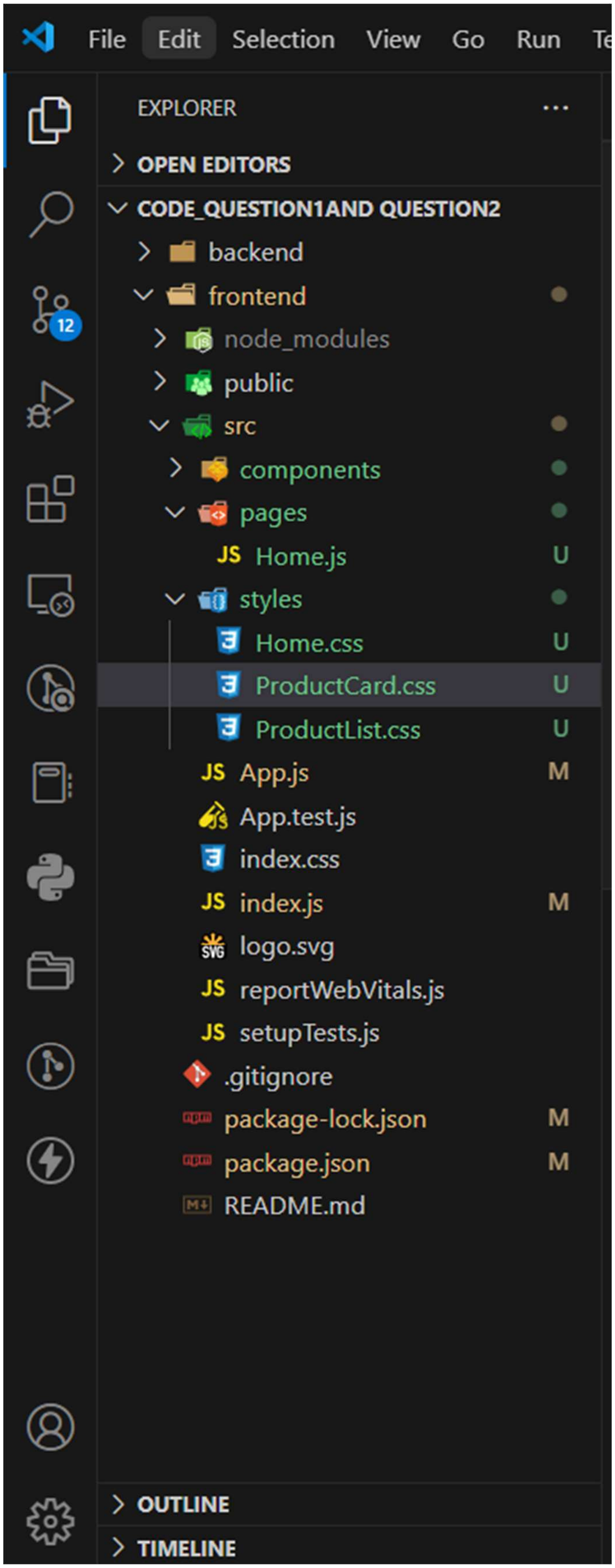


```css


.product-card {
    border: 1px solid #ddd;
    border-radius: 8px;
    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
  }

  .product-card .card-title {
    font-size: 1.25rem;
    font-weight: bold;
  }

  .product-card .card-text {
    margin-bottom: 0.5rem;
  }

```

```
Note that the development build is not optimized.
To create a production build, use npm run build.

Compiled successfully!

You can now view frontend in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://172.21.166.179:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
```



```
Note that the development build is not optimized.
To create a production build, use npm run build.

Compiled successfully!

You can now view frontend in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://172.21.166.179:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
```



```
> OPEN EDITORS
v CODE_QUESTION1AND QUESTION2
  > backend
  v frontend                  ●
    > node_modules
    > public
    v src                     ●
      > components            ●
      v pages                 ●
          Home.js             U
      v styles                ●
          Home.css            U
          ProductCard.css     U
          ProductList.css     U
        App.js                M
        App.test.js
        index.css
        index.js              M
        logo.svg
        reportWebVitals.js
        setupTests.js
      .gitignore
      package-lock.json       M
      package.json            M
      README.md
```