

npm init step (package.json created for server.js)

The screenshot shows a terminal window titled "powershell - Assignment-3". The command `npm init -y` was run, which generated a package.json file. The content of the file is displayed below:

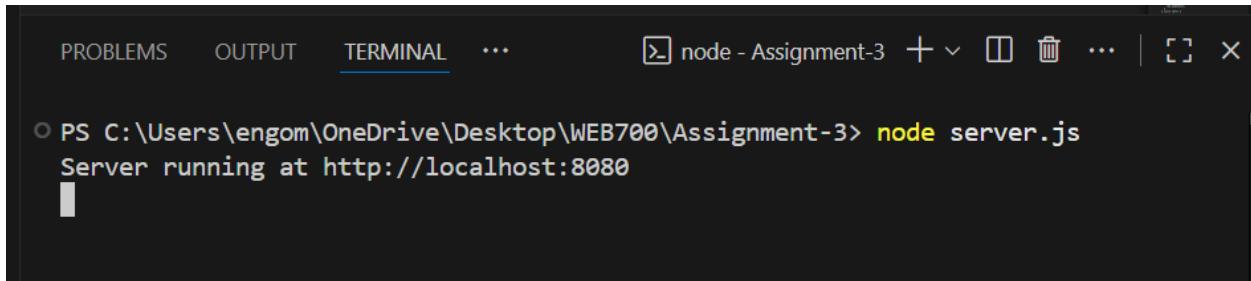
```
{  
  "name": "assignment-3",  
  "version": "1.0.0",  
  "description": "",  
  "main": "server.js",  
  "scripts": {  
    "test": "echo \\\"Error: no test specified\\\" && exit 1",  
    "start": "node server.js"  
  },  
  "keywords": [],  
  "author": "",  
  "license": "ISC"  
}
```

installed express with npm

The screenshot shows a terminal window titled "powershell - Assignment-3". The command `npm install express` was run, resulting in the following output:

```
● PS C:\Users\engom\OneDrive\Desktop\WEB700\Assignment-3> npm install express  
added 68 packages, and audited 69 packages in 3s  
16 packages are looking for funding  
  run `npm fund` for details  
  
found 0 vulnerabilities  
PS C:\Users\engom\OneDrive\Desktop\WEB700\Assignment-3>
```

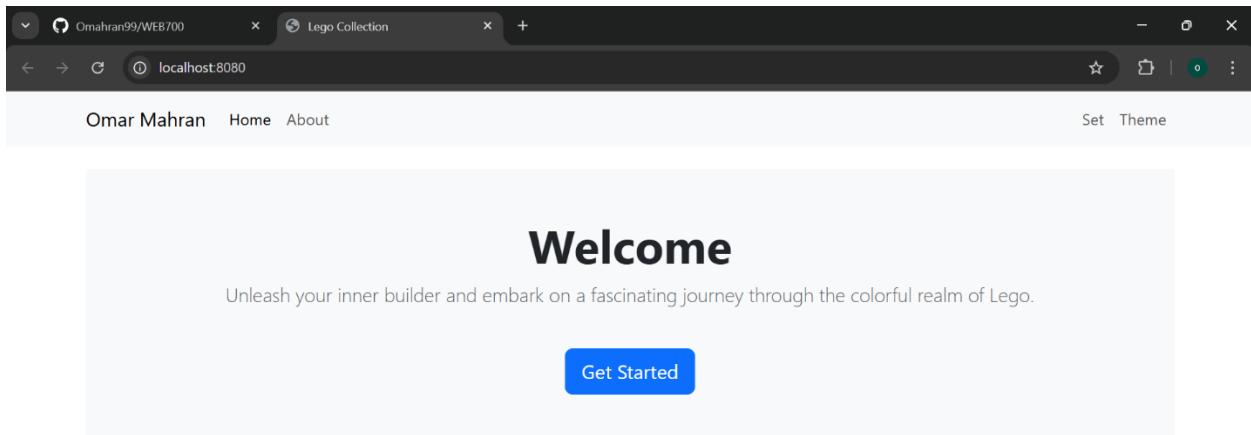
server started and running on localhost:8080



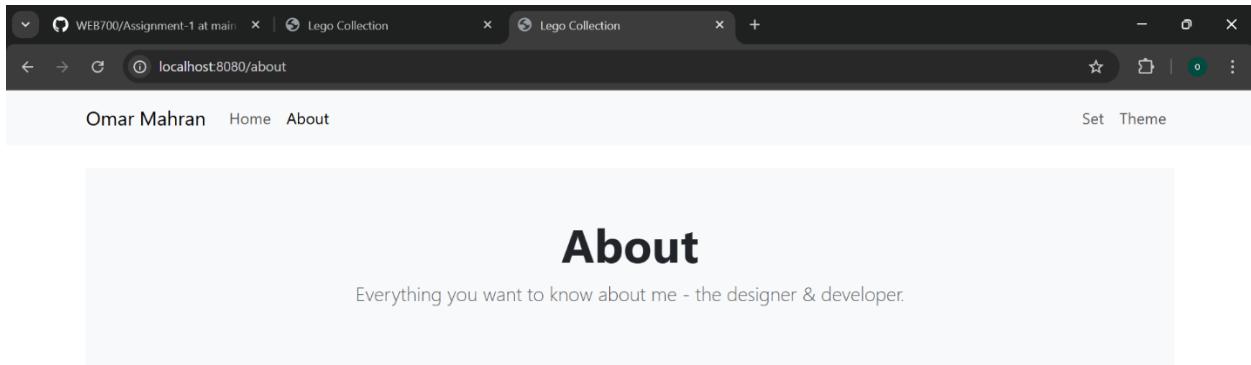
```
PROBLEMS    OUTPUT    TERMINAL    ...
node - Assignment-3 + ▾  ⌂  ⏷  ... | [ ] ×

PS C:\Users\engom\OneDrive\Desktop\WEB700\Assignment-3> node server.js
Server running at http://localhost:8080
```

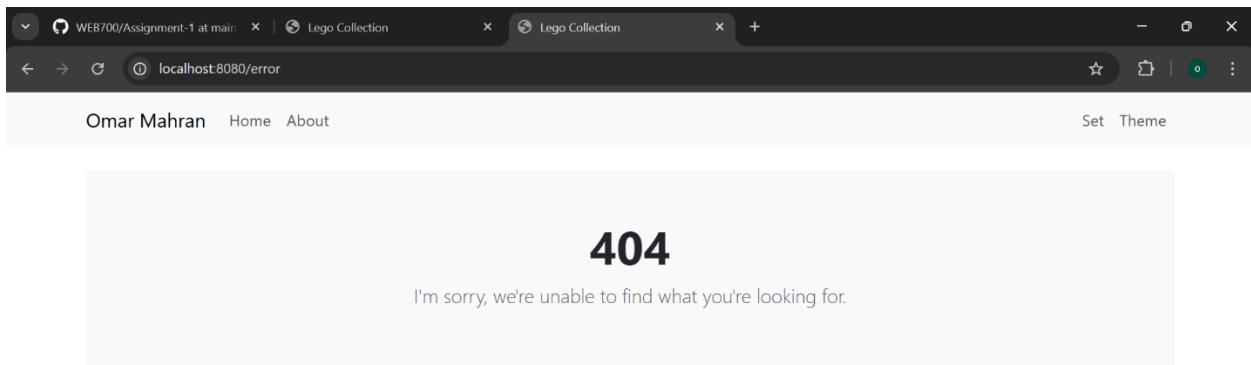
home page working on localhost:8080



about page working on localhost:8080



404 error page



lego set found by set_num (0013-1)

A screenshot of a Microsoft Edge browser window. The address bar shows "localhost:8080/lego/sets/0013-1". The page content displays a single JSON object under "Pretty-print":

```
{"set_num": "0013-1", "name": "Space Mini-Figures", "year": "1979", "theme_id": "143", "num_parts": "12", "img_url": "https://cdn.rebrickable.com/media/sets/0013-1.jpg"}
```

The browser's taskbar at the bottom shows various pinned icons, and the system tray indicates it's 3:10 PM on 10/7/2025.

lego sets filtered by theme (tech)

A screenshot of a Microsoft Edge browser window. The address bar shows "localhost:8080/lego/sets?theme=tech". The page content displays a list of multiple JSON objects under "Pretty-print":

```
[{"set_num": "001-1", "name": "Gears", "year": "1965", "theme_id": "1", "num_parts": "43", "img_url": "https://cdn.rebrickable.com/media/sets/001-1.jpg"}, {"set_num": "002-1", "name": "4.5V Samsonite Gears Motor Set", "year": "1965", "theme_id": "1", "num_parts": "3", "img_url": "https://cdn.rebrickable.com/media/sets/002-1.jpg"}, {"set_num": "01-1", "name": "Chain Links", "year": "1988", "theme_id": "453", "num_parts": "25", "img_url": "https://cdn.rebrickable.com/media/sets/01-1.jpg"}, {"set_num": "01-2", "name": "Bulldozer Chain Links", "year": "1982", "theme_id": "453", "num_parts": "58", "img_url": "https://cdn.rebrickable.com/media/sets/01-2.jpg"}, {"set_num": "02-1", "name": "Extra Large Tires & Hubs", "year": "1982", "theme_id": "453", "num_parts": "4", "img_url": "https://cdn.rebrickable.com/media/sets/02-1.jpg"}, {"set_num": "02-2", "name": "Digger Bucket Assembly", "year": "1980", "theme_id": "453", "num_parts": "3", "img_url": "https://cdn.rebrickable.com/media/sets/02-2.jpg"}]
```

The browser's taskbar at the bottom shows various pinned icons, and the system tray indicates it's 3:10 PM on 10/7/2025.

Showing all lego sets

```
[[{"set_num": "001-1", "name": "Gears", "year": "1965", "theme_id": "1", "num_parts": "43", "img_url": "https://cdn.rebrickable.com/media/sets/001-1.jpg"}, {"set_num": "0011-2", "name": "Town Mini-Figures", "year": "1979", "theme_id": "67", "num_parts": "12", "img_url": "https://cdn.rebrickable.com/media/sets/0011-2.jpg"}, {"set_num": "0011-3", "name": "Castle 2 for 1 Bonus Offer", "year": "1987", "theme_id": "199", "num_parts": "0", "img_url": "https://cdn.rebrickable.com/media/sets/0011-3.jpg"}, {"set_num": "0012-1", "name": "Space Mini-Figures", "year": "1979", "theme_id": "143", "num_parts": "12", "img_url": "https://cdn.rebrickable.com/media/sets/0012-1.jpg"}, {"set_num": "0013-1", "name": "Space Mini-Figures", "year": "1979", "theme_id": "143", "num_parts": "12", "img_url": "https://cdn.rebrickable.com/media/sets/0013-1.jpg"}, {"set_num": "0014-1", "name": "Space Mini-Figures", "year": "1979", "theme_id": "143", "num_parts": "12", "img_url": "https://cdn.rebrickable.com/media/sets/0014-1.jpg"}, {"set_num": "0015-1", "name": "Space Mini-Figures", "year": "1979", "theme_id": "143", "num_parts": "18", "img_url": "https://cdn.rebrickable.com/media/sets/0015-1.jpg"}, {"set_num": "0016-1", "name": "Castle Mini Figures Set", "year": "1979", "theme_id": "189", "num_parts": "15", "img_url": "https://cdn.rebrickable.com/media/sets/0016-1.jpg"}, {"set_num": "002-1", "name": "4.5V Samsonite Gears Motor Set", "year": "1965", "theme_id": "1", "num_parts": "3", "img_url": "https://cdn.rebrickable.com/media/sets/002-1.jpg"}, {"set_num": "00253963-1", "name": "Legend of Chima: Corbeaux et Gorilles", "year": "2013", "theme_id": "497", "num_parts": "4", "img_url": "https://cdn.rebrickable.com/media/sets/00253963-1.jpg"}, {"set_num": "003-1", "name": "Master Mechanic Set", "year": "1966", "theme_id": "366", "num_parts": "483", "img_url": "https://cdn.rebrickable.com/media/sets/003-1.jpg"}, {"set_num": "005-1", "name": "Basic Building Set in Cardboard", "year": "1965", "theme_id": "366", "num_parts": "483", "img_url": "https://cdn.rebrickable.com/media/sets/005-1.jpg"}, {"set_num": "005-2", "name": "Discovery Set", "year": "1967", "theme_id": "366", "num_parts": "0", "img_url": "https://cdn.rebrickable.com/media/sets/005-2.jpg"}, {"set_num": "006-1", "name": "Special Offer", "year": "1985", "theme_id": "67", "num_parts": "0", "img_url": "https://cdn.rebrickable.com/media/sets/006-1.jpg"}, {"set_num": "006-1", "name": "Basic Building Set in Cardboard", "year": "1965", "theme_id": "366", "num_parts": "57", "img_url": "https://cdn.rebrickable.com/media/sets/006-1.jpg"}, {"set_num": "010-2", "name": "Pre-School Set", "year": "1973", "theme_id": "505", "num_parts": "18", "img_url": "https://cdn.rebrickable.com/media/sets/010-2.jpg"}, {"set_num": "010-3", "name": "Basic Building Set", "year": "1968", "theme_id": "366", "num_parts": "77", "img_url": "https://cdn.rebrickable.com/media/sets/010-3.jpg"}, {"set_num": "010423-1", "name": "The Majestic Horse", "year": "2023", "theme_id": "721", "num_parts": "0", "img_url": "https://cdn.rebrickable.com/media/sets/010423-1.jpg"}, {"set_num": "011-1", "name": "Chain Links", "year": "1988", "theme_id": "453", "num_parts": "25", "img_url": "https://cdn.rebrickable.com/media/sets/011-1.jpg"}, {"set_num": "011-2", "name": "Basic Building Set", "year": "1968", "theme_id": "366", "num_parts": "145", "img_url": "https://cdn.rebrickable.com/media/sets/011-2.jpg"}, {"set_num": "012-1", "name": "Bulldozer Chain Links", "year": "1982", "theme_id": "453", "num_parts": "50", "img_url": "https://cdn.rebrickable.com/media/sets/012-1.jpg"}, {"set_num": "012-1", "name": "Extra Large Tires & Hubs", "year": "1982", "theme_id": "453", "num_parts": "50", "img_url": "https://cdn.rebrickable.com/media/sets/012-1.jpg"}, {"set_num": "021-1", "name": "Wheel Set", "year": "1966", "theme_id": "366", "num_parts": "183", "img_url": "https://cdn.rebrickable.com/media/sets/021-1.jpg"}, {"set_num": "022-1", "name": "Digger Bucket Assembly", "year": "1980", "theme_id": "453", "num_parts": "3", "img_url": "https://cdn.rebrickable.com/media/sets/022-1.jpg"}, {"set_num": "022-1", "name": "Basic Building Set", "year": "1968", "theme_id": "366", "num_parts": "110", "img_url": "https://cdn.rebrickable.com/media/sets/022-1.jpg"}, {"set_num": "022-1", "name": "Ninjago: Build Your Own Adventure", "year": "2015", "theme_id": "497", "num_parts": "74", "img_url": "https://cdn.rebrickable.com/media/sets/022-1.jpg"}, {"set_num": "0241187567-1", "name": "Star Wars: Build Your Own Adventure: Galactic Missions", "year": "2019", "theme_id": "497", "num_parts": "70", "img_url": "https://cdn.rebrickable.com/media/sets/0241187567-1.jpg"}, {"set_num": "0241357594-1", "name": "Star Wars: Build Your Own Adventure", "year": "2015", "theme_id": "497", "num_parts": "74", "img_url": "https://cdn.rebrickable.com/media/sets/0241357594-1.jpg"}, {"set_num": "028-1", "name": "Nursery Furniture", "year": "1979", "theme_id": "652", "num_parts": "0", "img_url": "https://cdn.rebrickable.com/media/sets/028-1.jpg"}, {"set_num": "028-2", "name": "Building Set", "year": "1973", "theme_id": "505", "num_parts": "29", "img_url": "https://cdn.rebrickable.com/media/sets/028-2.jpg"}, {"set_num": "03093-1", "name": "The Race to Build It Board Game", "year": "1999", "theme_id": "674", "num_parts": "77", "img_url": "https://cdn.rebrickable.com/media/sets/03093-1.jpg"}]]
```