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Report  
R0334/3011/Rathod

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## Labwork-2

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## 1 Learning Reflection

I watched all the videos and materials required for module 2, and the Udacity MOOC regarding UX, UI and mobile user-centered design. I already had some experience with Git and Github, and I created the Labwork-2 repository after the Labwork-1 one: <https://github.com/karanxhagiulia/Labwork2>. I did not consult other students this time, but I spent some time on Stack Overflow trying to figure out a solution for a few issues I encountered during the Hands-on Practice assignment 1, with the ionic capacitor build. I tried using Microsoft Co-Pilot (the AI chat), but eventually I found the discussions on Stack Overflow more useful. Regardless of this small issue, I was surprised at how easy it was to build the sidebar menu (especially compared to the “normal” web design!). I also did not know about the `code .` command in VS Code, that was really interesting to learn!

## 2 Hands-on Practice-1 (Navigation App)

Following the labwork, I checked all the dependencies:

```
Microsoft Windows [Version 10.0.22631.3155]
(c) Microsoft Corporation. All rights reserved.

C:\Users\karan>npm -v
10.2.4

C:\Users\karan>node -v
v20.11.0

C:\Users\karan>ionic -v
7.2.0

C:\Users\karan>npm install @ionic/react@latest -g

added 10 packages in 10s
npm notice
npm notice New minor version of npm available! 10.2.4 -> 10.5.0
npm notice Changelog: https://github.com/npm/cli/releases/tag/v10.5.0
npm notice Run npm install -g npm@10.5.0 to update!
npm notice

C:\Users\karan>npm install @ionic/react-router -g

added 26 packages in 10s

C:\Users\karan>
```

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```
C:\Users\karan>ionic info
[WARN] You are not in an Ionic project directory. Project context may be missing.

Ionic:

  Ionic CLI : 7.2.0

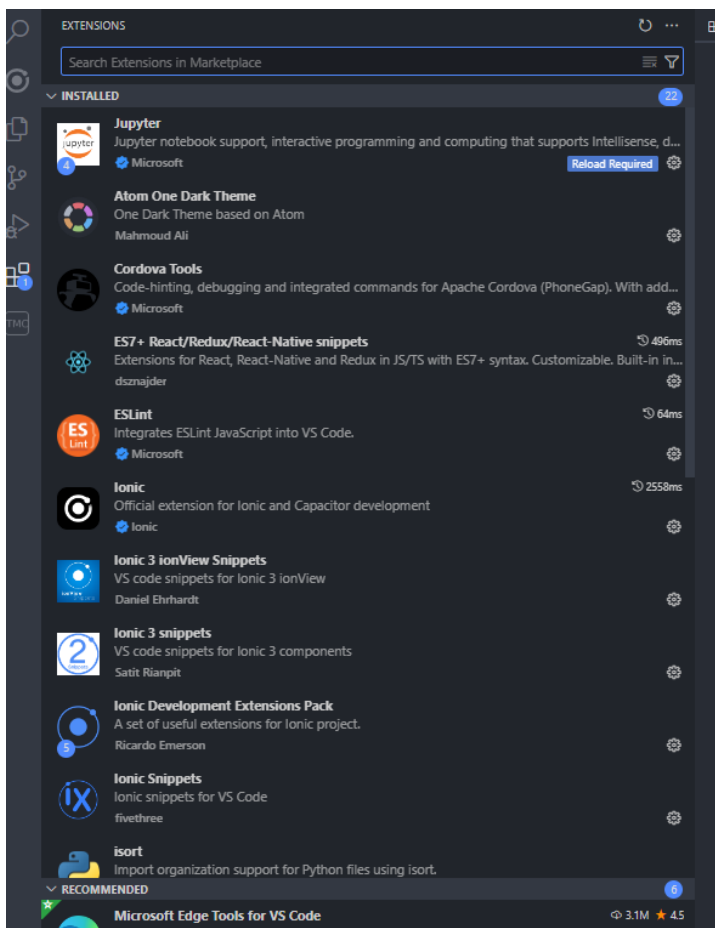
Utility:

  cordova-res : not installed globally
  native-run  : not installed globally

System:

  NodeJS : v20.11.0
  npm    : 10.2.4
  OS     : Windows 10
```

I also installed the recommended Plug-ins:



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Starting the Ionic app:

```
C:\Users\karan\OneDrive - Laurea-ammattikorkeakoulu\Assignments\2024\MobileApp\Labwork2>ionic start myAppLab-2

Pick a framework!

Please select the JavaScript framework to use for your new app. To bypass this prompt next time,
supply a value for the --type option.

? Framework:
  Angular | https://angular.io
> React   | https://reactjs.org
  Vue     | https://vuejs.org
```

```
tabs | A starting project with a simple tabbed interface

C:\Users\karan\OneDrive - Laurea-ammattikorkeakoulu\Assignments\2024\MobileApp\Labwork2>ionic start myAppLab-2

Pick a framework!

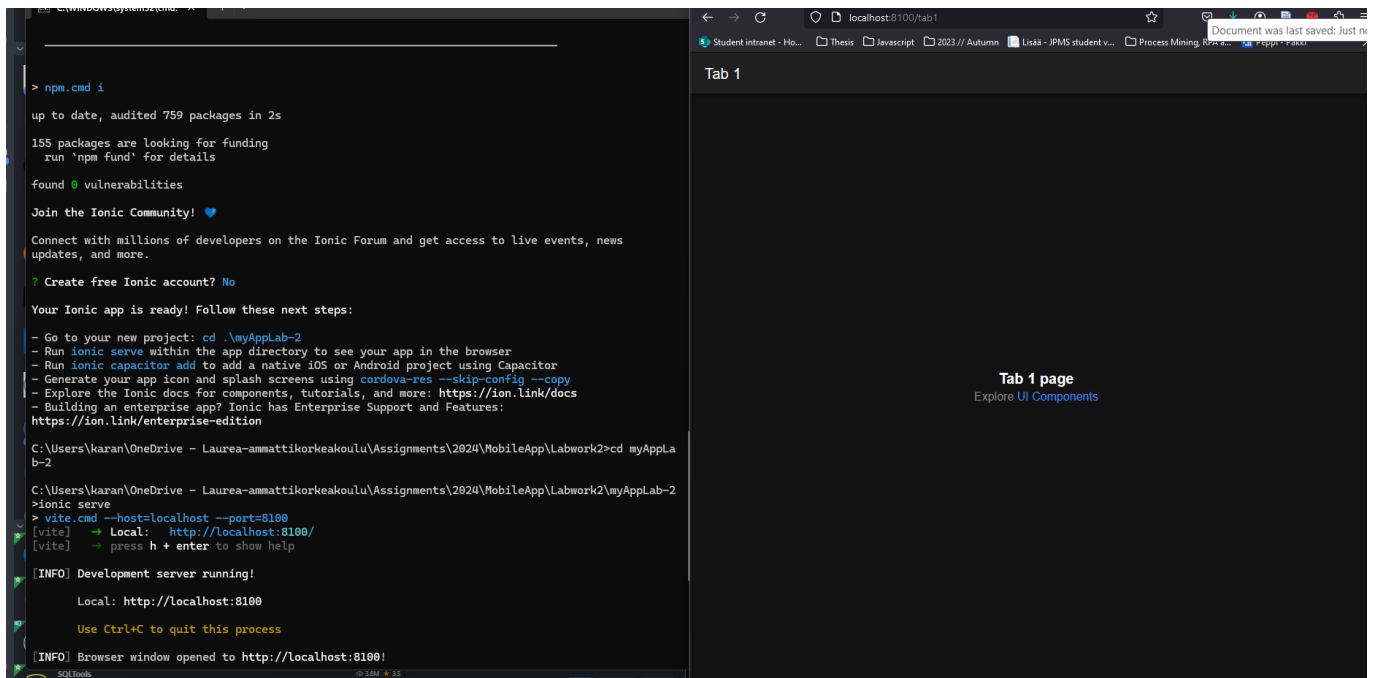
Please select the JavaScript framework to use for your new app. To bypass this prompt next time,
supply a value for the --type option.

? Framework: React

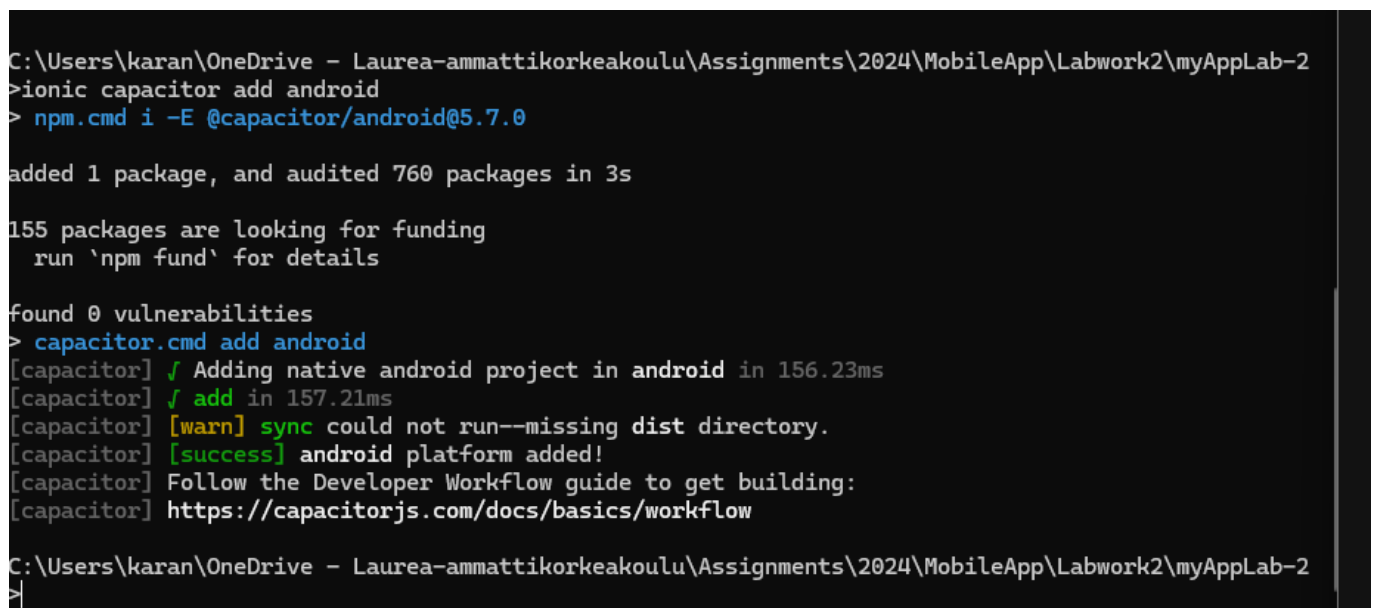
Let's pick the perfect starter template!

Starter templates are ready-to-go Ionic apps that come packed with everything you need to build
your app. To bypass this prompt next time, supply template, the second argument to ionic start.

? Starter template: tabs
[INFO] Existing git project found (C:/Users/karan/OneDrive -
      Laurea-ammattikorkeakoulu/Assignments/2024/MobileApp/Labwork2). Git operations are
      disabled.
✓ Preparing directory .\myAppLab-2 in 1.41ms
✓ Downloading and extracting tabs starter in 415.14ms
> ionic integrations enable capacitor --quiet -- myAppLab-2 io.ionic.starter
> npm.cmd i --save -E @capacitor/core@latest
```

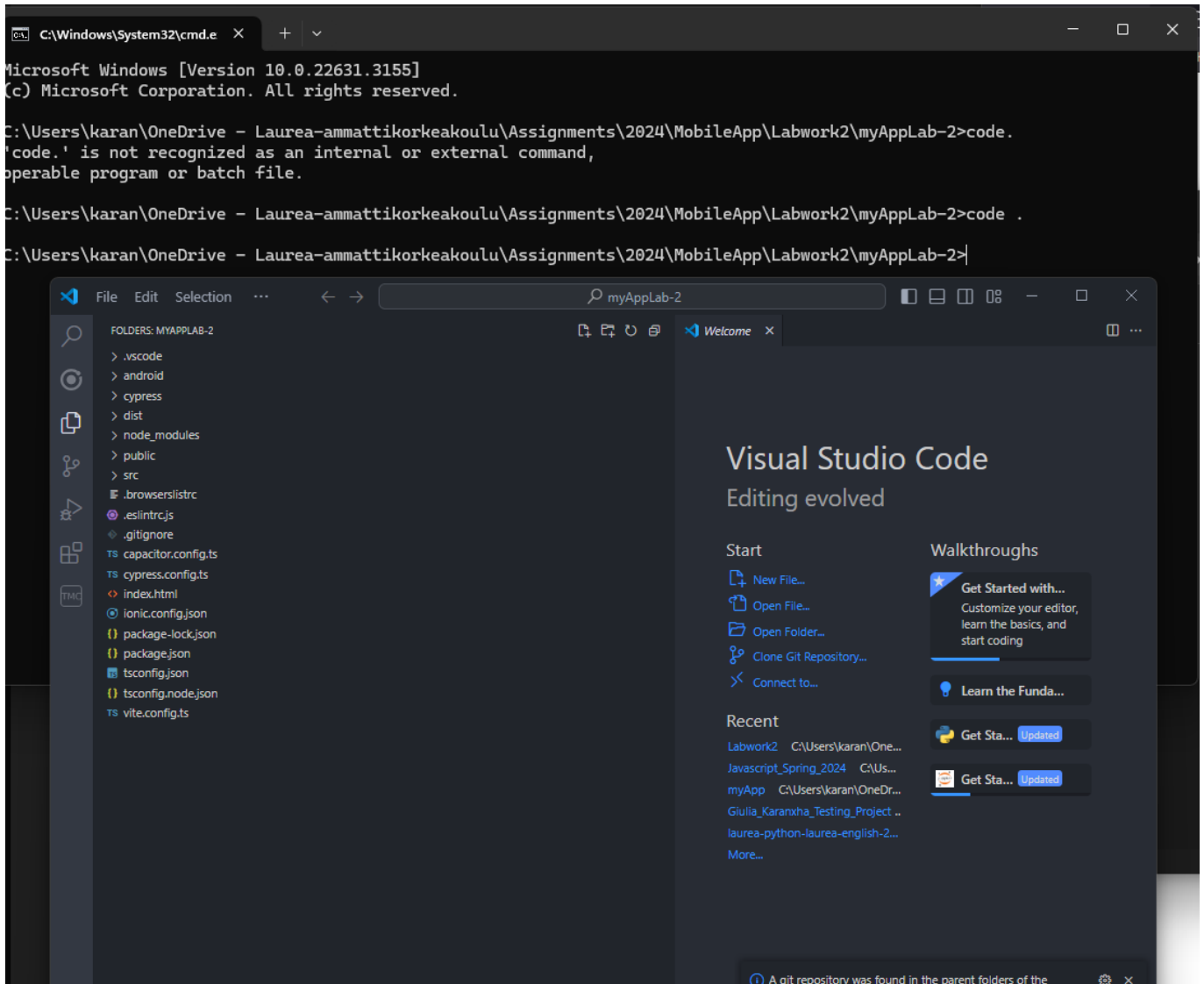


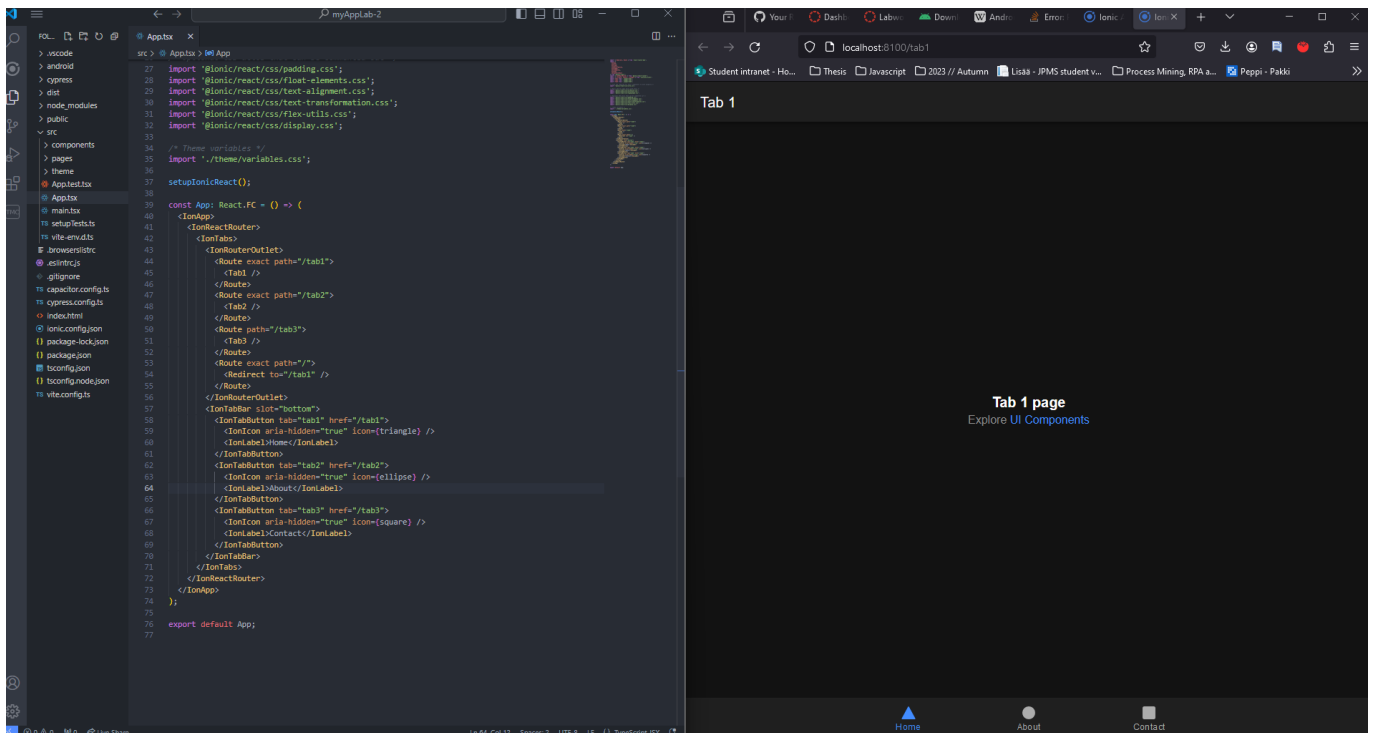
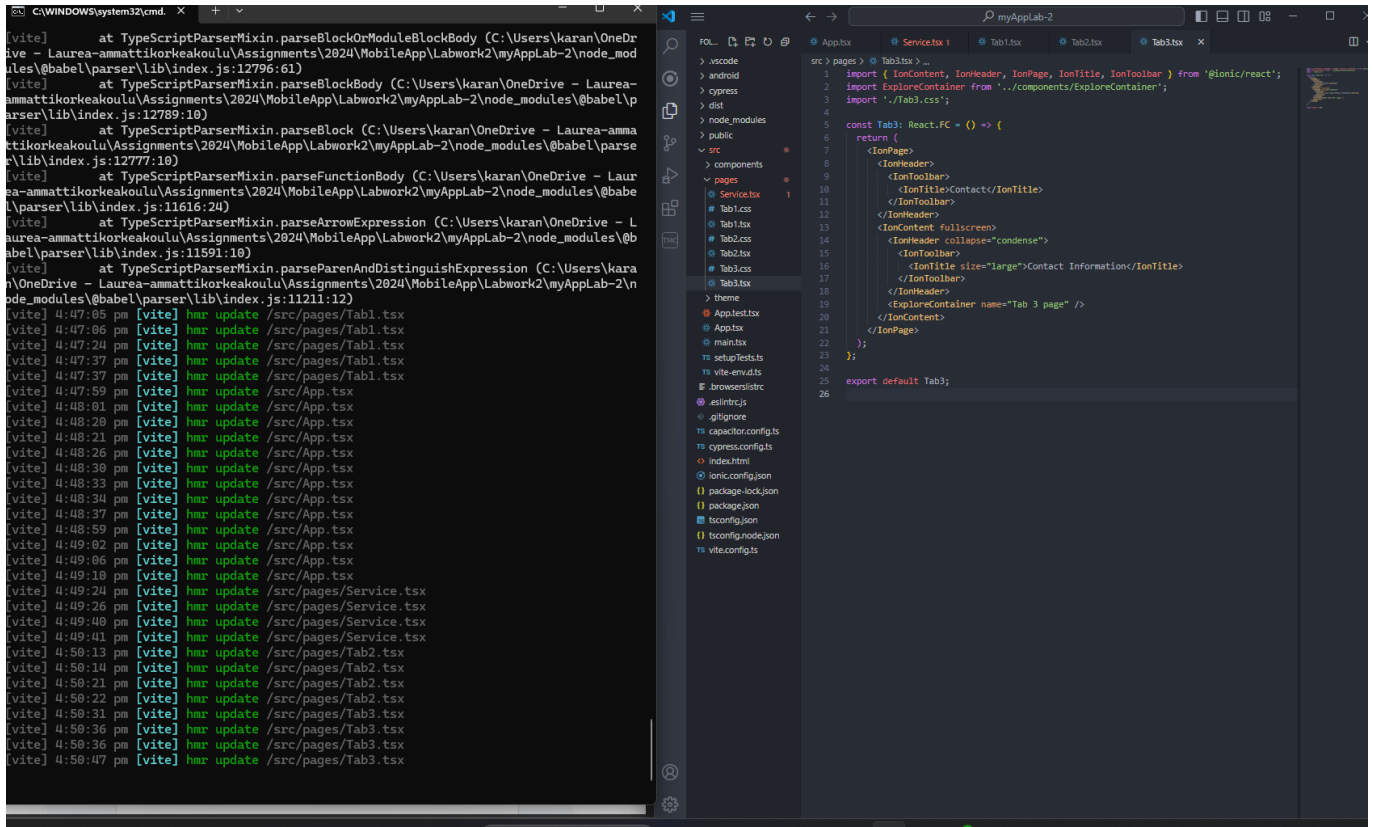
### Building Android with Ionic capacitor:



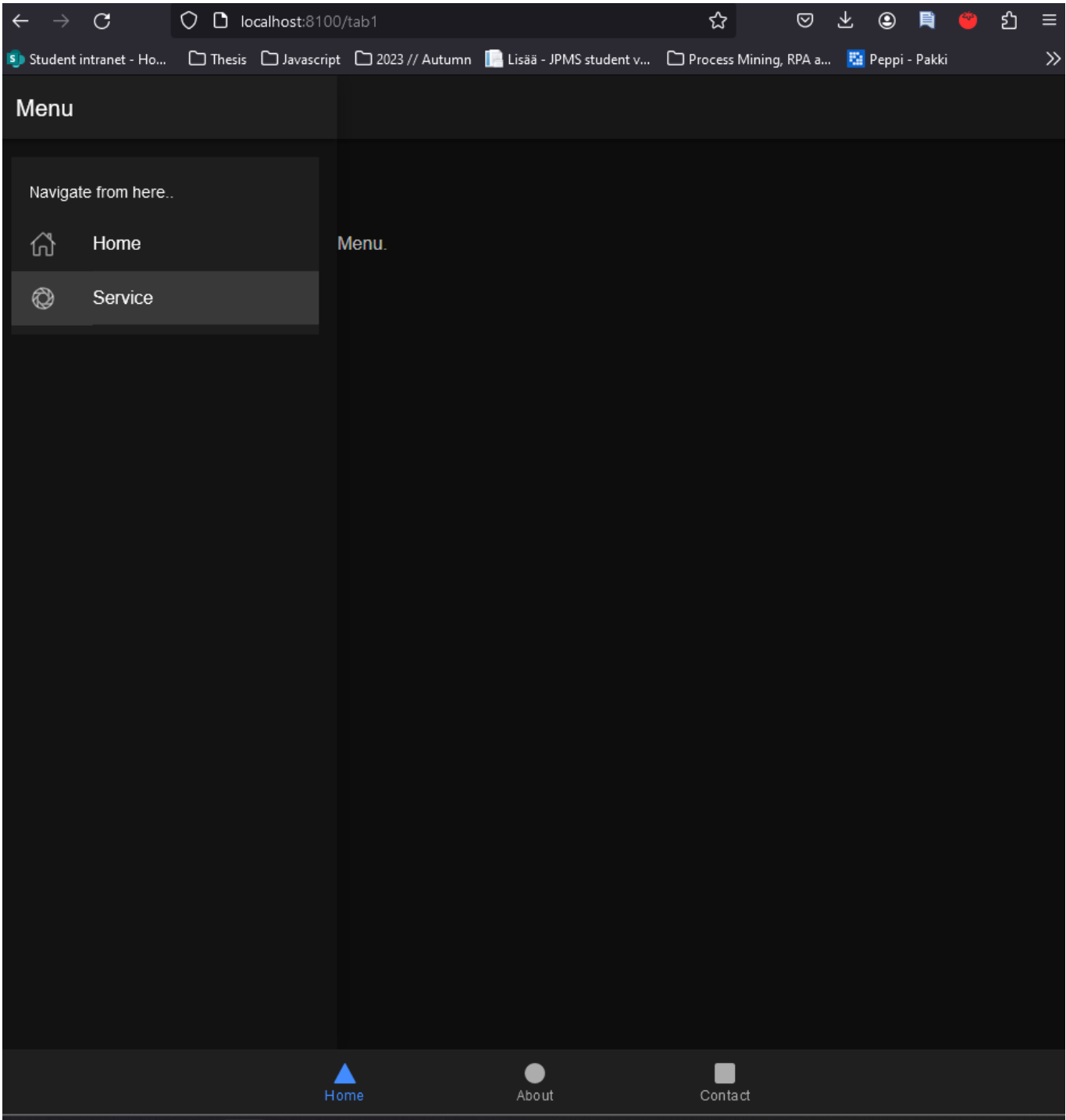
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Opening the project in VS Code and updating and creating the Service tab:





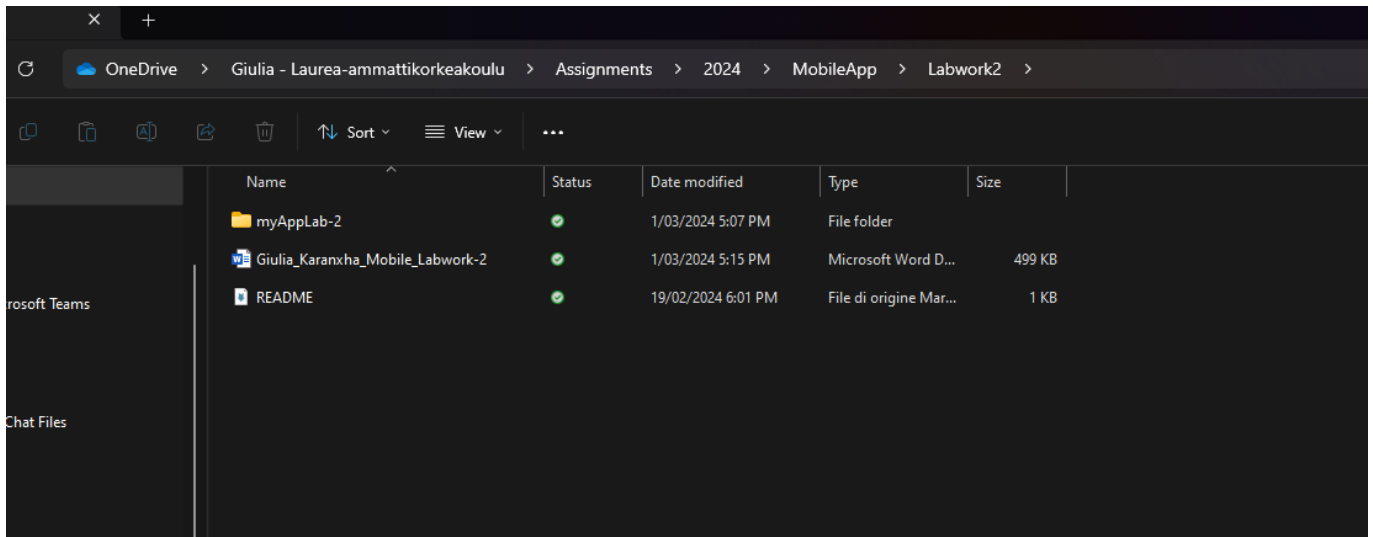




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### 3 Hands-on Practice-2 (Git)

Since I already have experience with Git and GitHub, and consequently I already know how to use it, I will show here how I structured my repositories:



```
C:\Windows\System32\cmd.e X + v

Microsoft Windows [Version 10.0.22631.3155]
(c) Microsoft Corporation. All rights reserved.

C:\Users\karan\OneDrive - Laurea-ammattikorkeakoulu\Assignments\2024\MobileApp\Labwork2>git pull
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 1.39 KiB | 142.00 KiB/s, done.
From https://github.com/karanxhagiulia/Labwork2
a98d9b6..3310f3b main -> origin/main
Updating a98d9b6..3310f3b
Fast-forward
 README.md | 10 ++++++++
 1 file changed, 9 insertions(+), 1 deletion(-)
```

```
C:\Users\karan\OneDrive - Laurea-ammattikorkeakoulu\Assignments\2024\MobileApp\Labwork2>git commit -m "new"
[main 381b9bd] new
 8 files changed, 98 insertions(+), 26 deletions(-)
 create mode 100644 myAppLab-2/src/pages/Service.tsx

C:\Users\karan\OneDrive - Laurea-ammattikorkeakoulu\Assignments\2024\MobileApp\Labwork2>git push
Enumerating objects: 30, done.
Counting objects: 100% (30/30), done.
Delta compression using up to 8 threads
Compressing objects: 100% (15/15), done.
Writing objects: 100% (16/16), 1.04 MiB | 1.11 MiB/s, done.
Total 16 (delta 9), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (9/9), completed with 9 local objects.
To https://github.com/karanxhagiulia/Labwork2.git
 3310f3b..381b9bd main -> main

C:\Users\karan\OneDrive - Laurea-ammattikorkeakoulu\Assignments\2024\MobileApp\Labwork2>
```

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This is the link to the public repository <https://github.com/karanxhagiulia/Labwork2>

The screenshot shows the GitHub repository page for 'Labwork2' by user 'karanxhagiulia'. The repository is public and has 4 commits. The main branch is selected. The repository contains the following files:

File	Commit	Time
myAppLab-2	new	1 minute ago
Giulia_Karanxha_Mobile_Labwork-2.docx	new	1 minute ago
README.md	Update README.md	2 days ago


The README file is selected and displays the following content:

## Introduction-to-Mobile-App-Design-and-Development-R0334-3011

University labworks for Mobile App Design and Dev.

### Labwork-2

Languages and Tools used in this LabWork:

 JS

[Setting up Ionic report here!](#)

The right sidebar shows repository statistics: 0 stars, 1 watching, 0 forks. It also lists languages: TypeScript (45.4%), CSS (40.6%), Java (6.9%), HTML (5.2%), and JavaScript (1.9%).

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## References

### Electronic sources

Ionic Documentation. [Accessed 17.2.2024]. Available: <https://ionicframework.com/docs>

Rathod, P. (2024). Ionic with Git: Creating Simple Tabs Mobile App with Menu Navigation. HANDS-ON LABWORK-2. [pdf document]. [Accessed 17.2.2024].

Grimm, S. (2022). Building an Ionic React Side Menu Navigation [YouTube video]. [Accessed 19.2.2024]. Available: <https://www.youtube.com/watch?v=XrUrkoFuAxw>