ProBlog

PRODUCTIVITY
APP

Presented by Mayuresh Pednekar

Roll No. 53
Div: D15B
Batch: C

CONTENTS

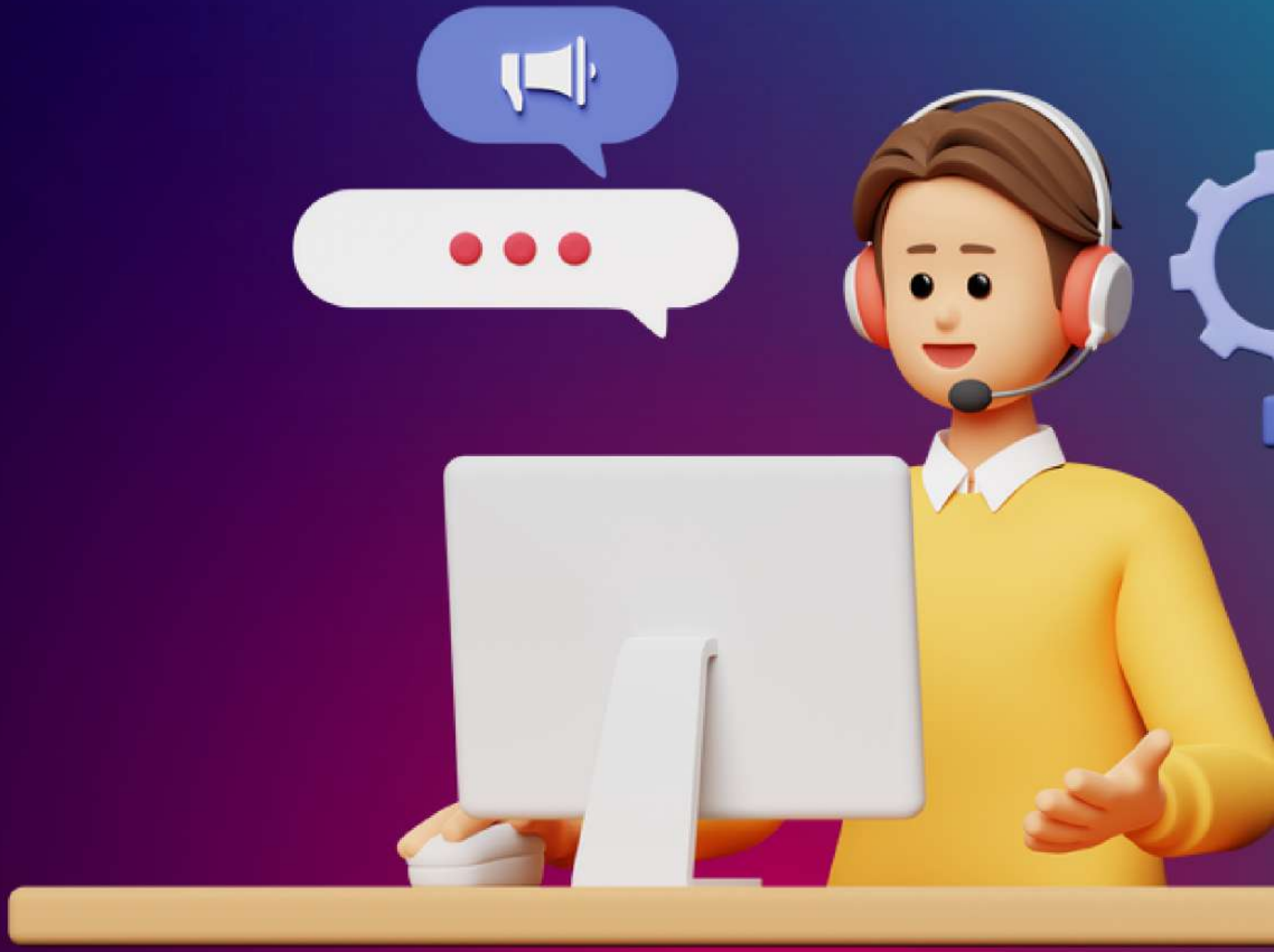
1. Introduction to the project
2. Problem Statement
3. Objectives of the project
4. System Requirements (Hardware, software)
5. ER diagram of the proposed system
6. Implementation
7. Literature Survey
8. References

ProBlog

INTRODUCTION

Welcome to our Android productivity application – your ultimate tool for enhancing productivity on the go. In today's fast-paced world, staying organized is key to success. Our app offers a simple yet powerful solution, helping users manage tasks, take notes, and create a todo list.

With intuitive features and seamless synchronization, our app keeps users on track with their goals, ensuring no deadline is missed.

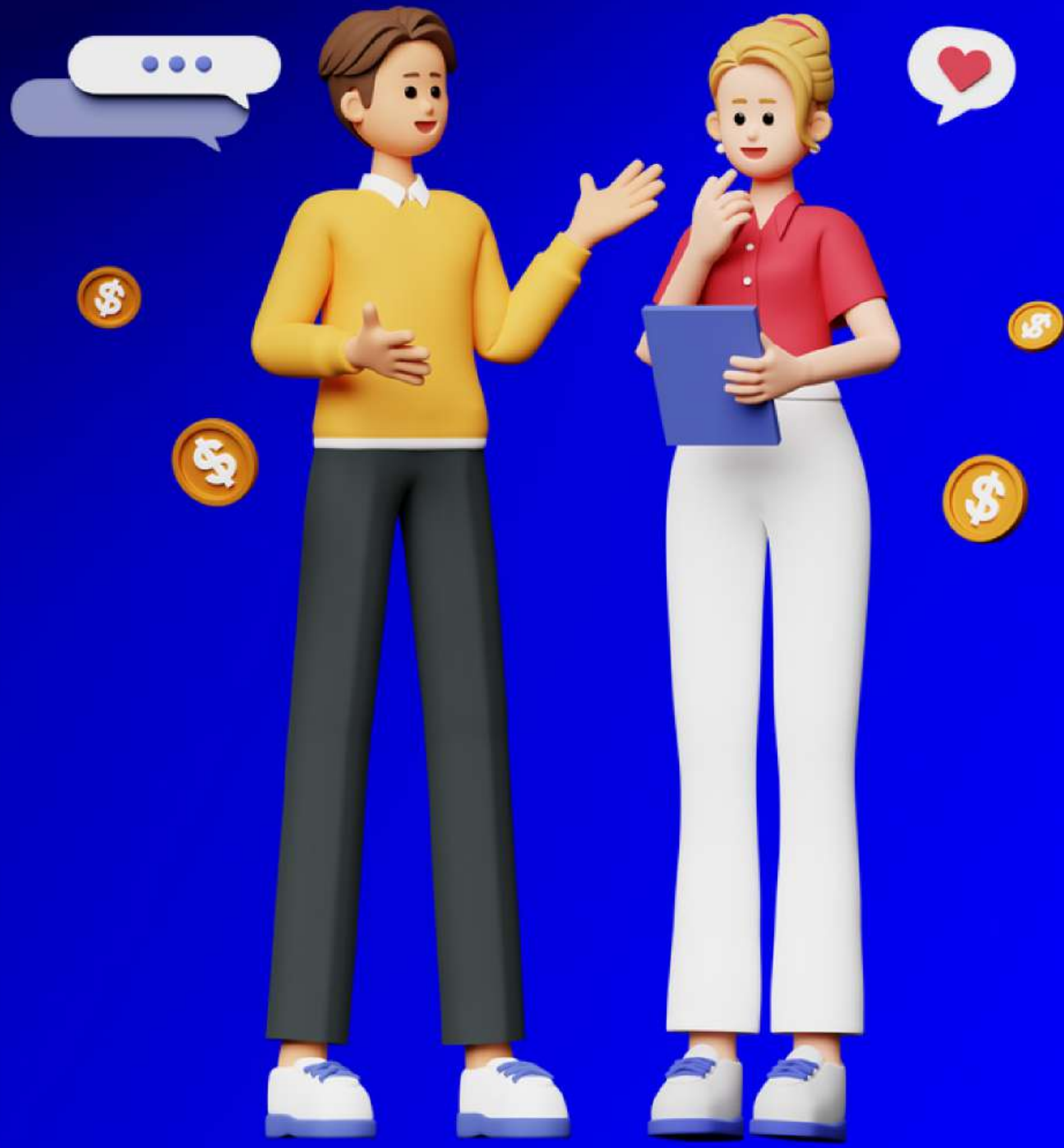


ProBlog

PROBLEM STATEMENT

Creating an Android productivity application aimed at enhancing user productivity involves developing a software solution that assists users in managing tasks, and organizing information.

The primary goals of such an application typically include providing functionalities for note-taking and task management.



ProBlog

OBJECTIVES

1. To create an app which will authenticate users logging in using firebase authentication.
2. To add the note taking feature into our project.Offer a convenient platform for users to jot down ideas, thoughts, and reminders.
3. To add a to-do list feature connected to our firebase database which will store the time the task was created and completed. Allow users to set customized reminders for important tasks and deadlines.

SYSTEM REQUIREMENTS

Hardware Requirements

Development Machine:
Processor: Intel Core i5 or better (or equivalent)
RAM: 8 GB minimum
Storage: At least 10 GB of free space for the development environment, dependencies, and project files

Mobile Device for the user to use the application.

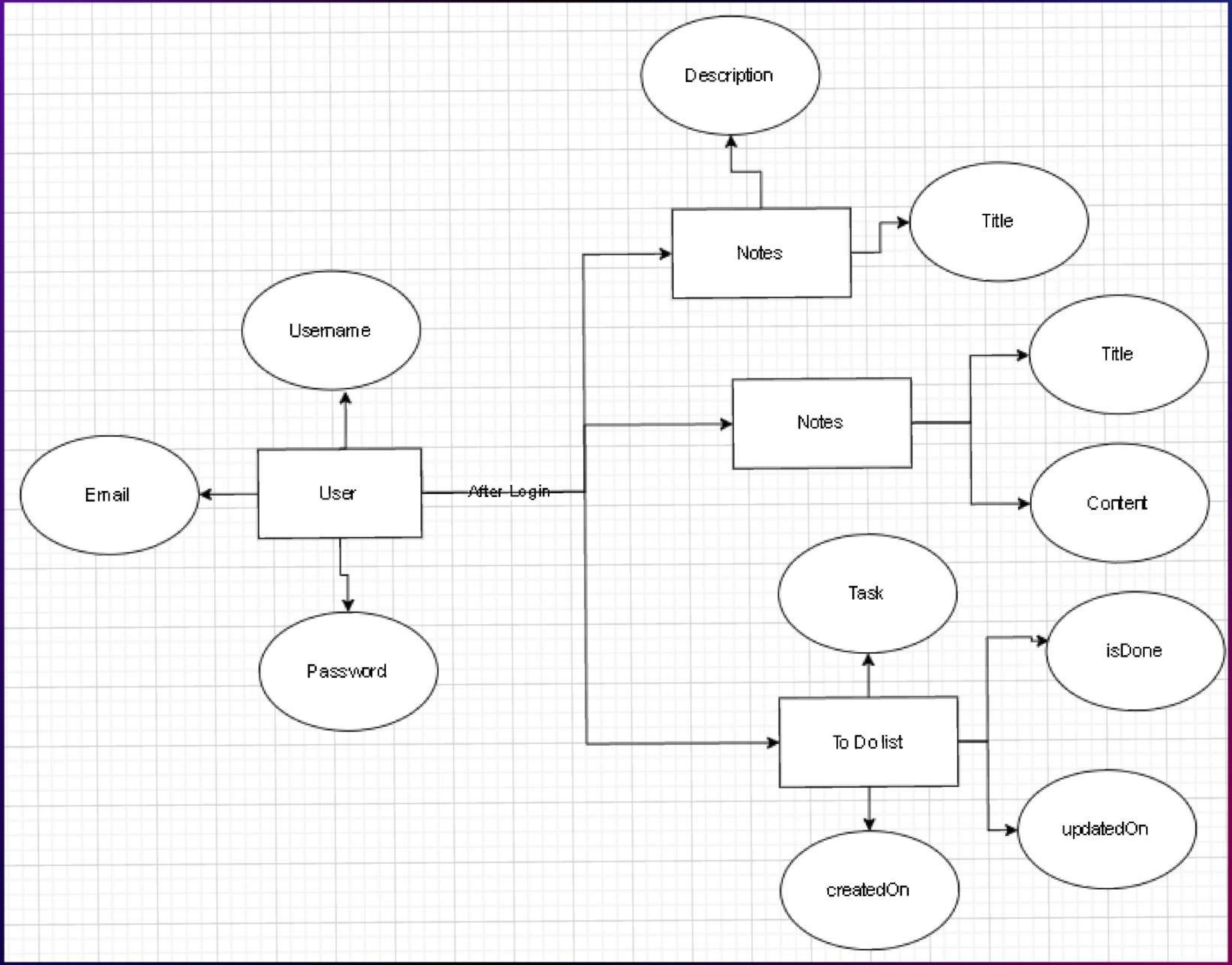
Software Requirements

Development Environment:
Flutter SDK
Dart
Android Studio IDE
Android emulator
Git

Backend:
Firebase
Sqflite

ProBlog

ER DIAGRAM OF THE PROPOSED SYSTEM



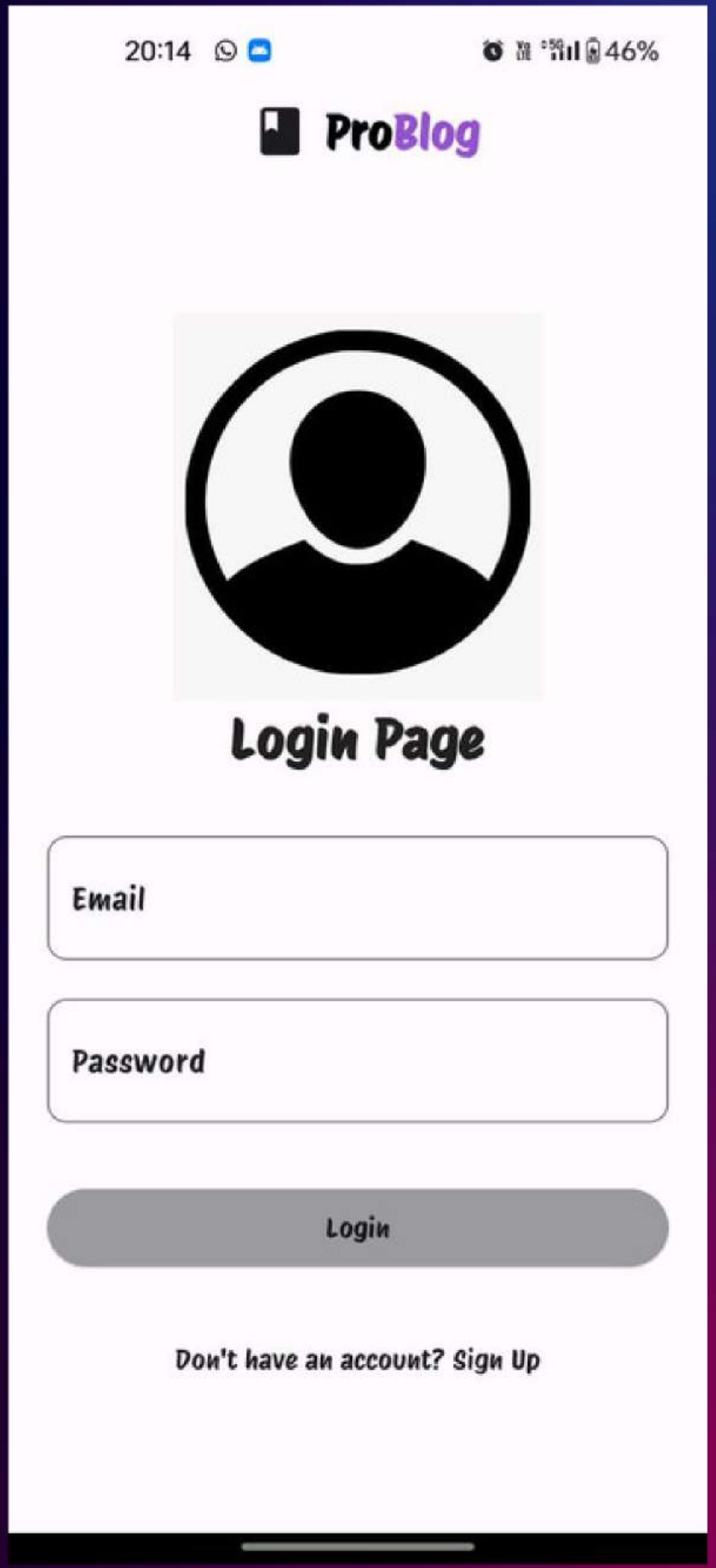
ProBlog

IMPLEMENTATION

Login and Sign up page

- Login and Sign-up page created with proper validations.

- The login and sign-up form is also connected to Firebase authentication to provide proper authentication in the application.



20:14 46%

ProBlog

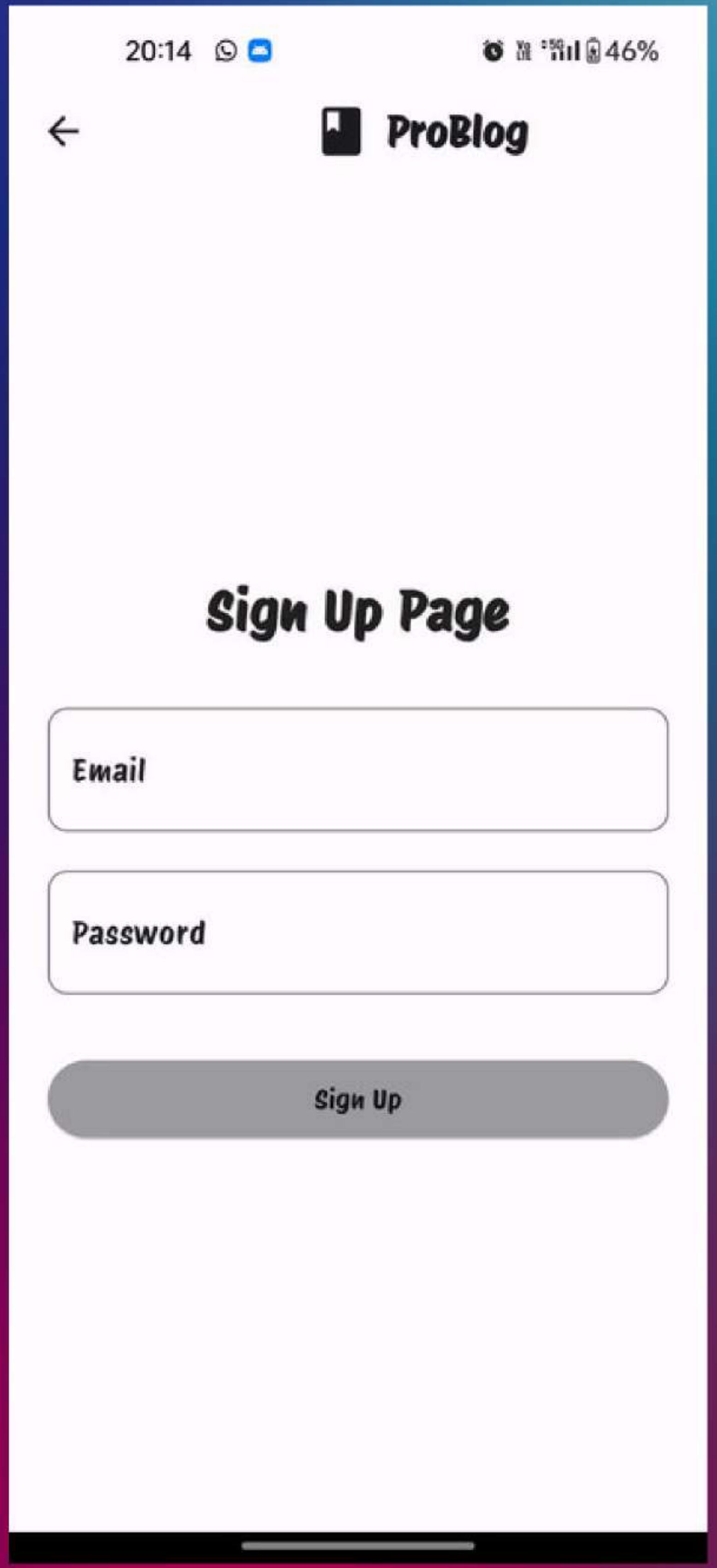
Login Page

Email

Password

Login

Don't have an account? Sign Up



20:14 46%

ProBlog

Sign Up Page

Email

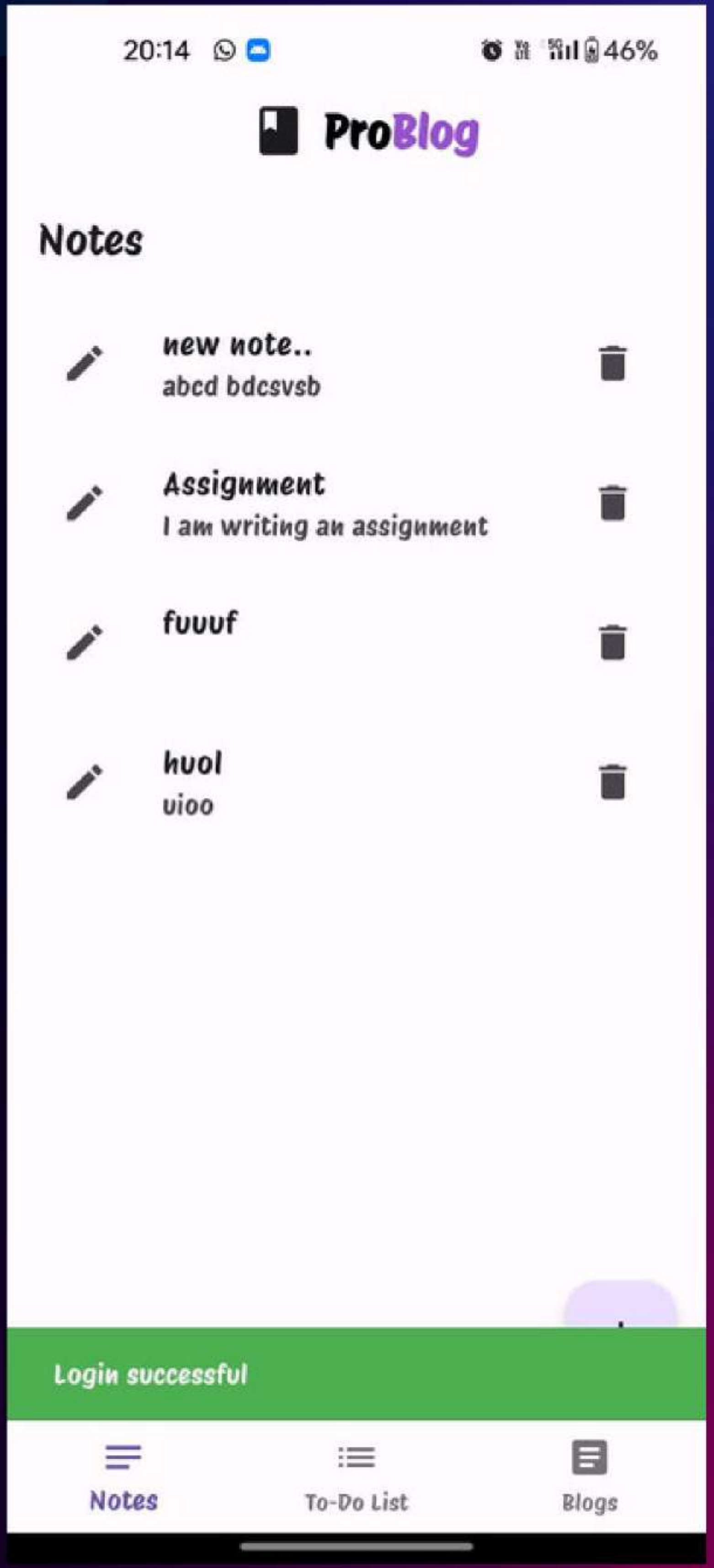
Password

Sign Up

ProBlog

Notes and Add Notes Page

- We have created two pages for the notes feature
- The first page displays the notes that are created with the title and description.
- The second page is to add the notes. Both the title and description field are connected to the backend to save and fetch the data to display it on the main page.



Notes

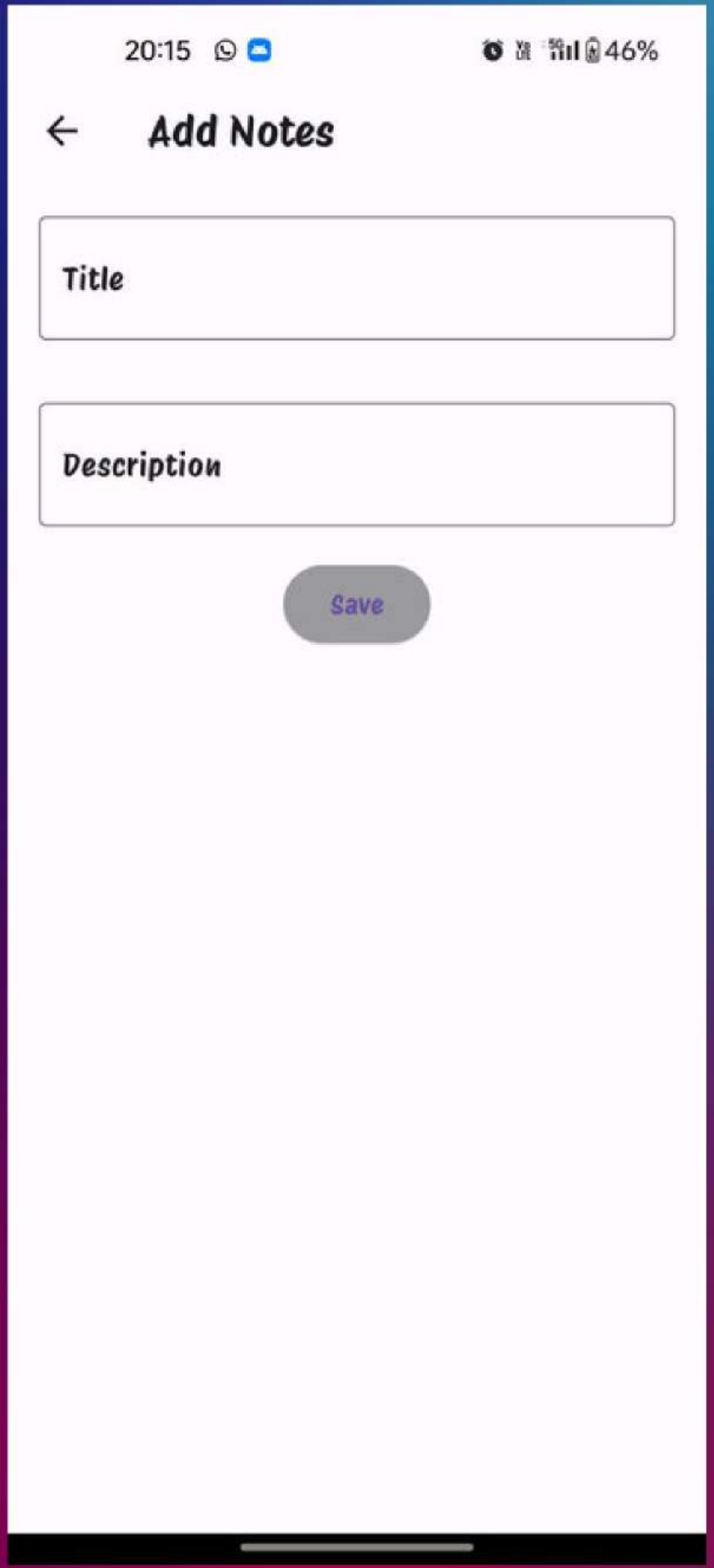
new note..
abcd bdcsvsb

Assignment
I am writing an assignment

fuuuf

huol
uioo

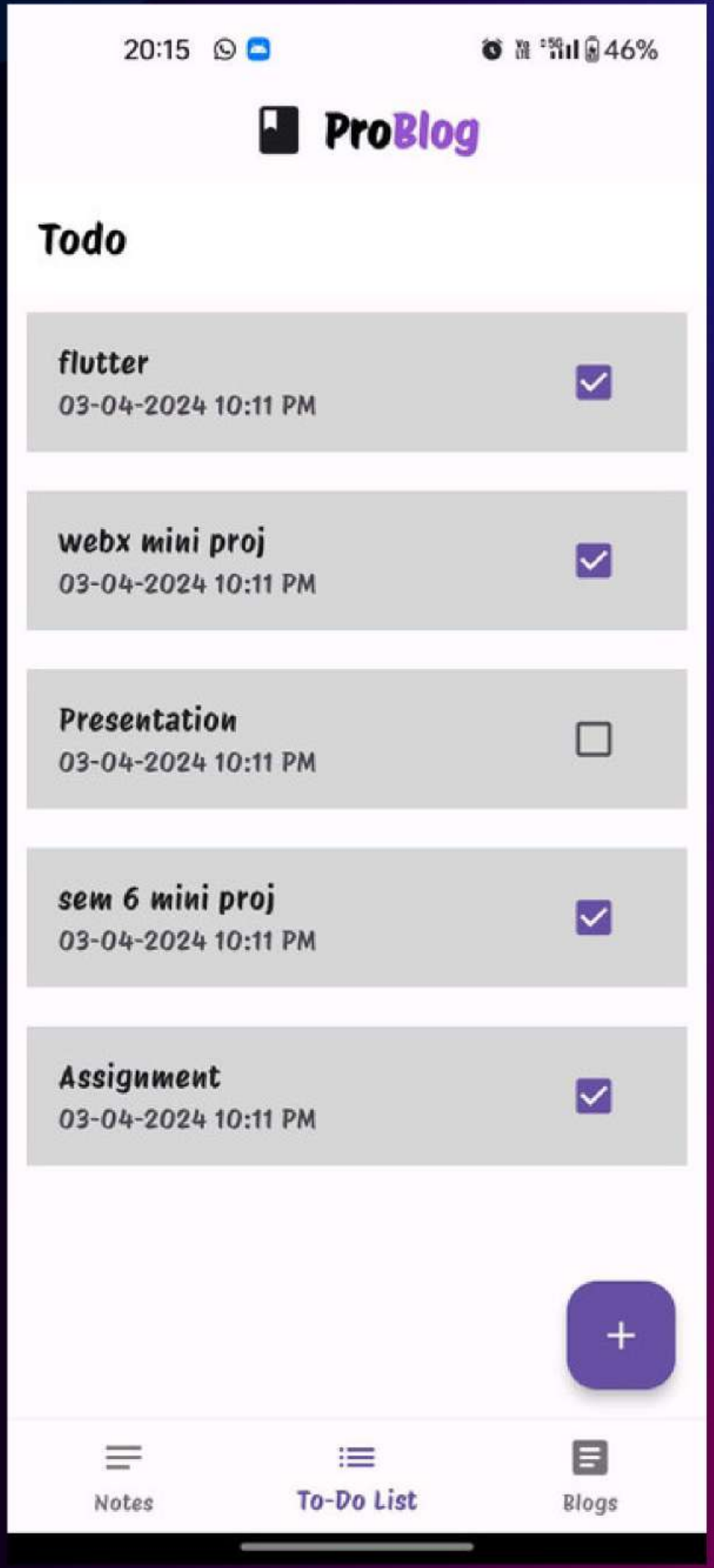
Login successful



ProBlog

Todo list and Add Todos

- In our todo list page after we create a todo it is displayed on the page.
- The todo list page is connected to the Firestore database.
- We are saving four fields in the database todo,isDone,createdOn and updatedOn to keep track of the task being completed in how much time frame.


20:15 46%

ProBlog

Todo

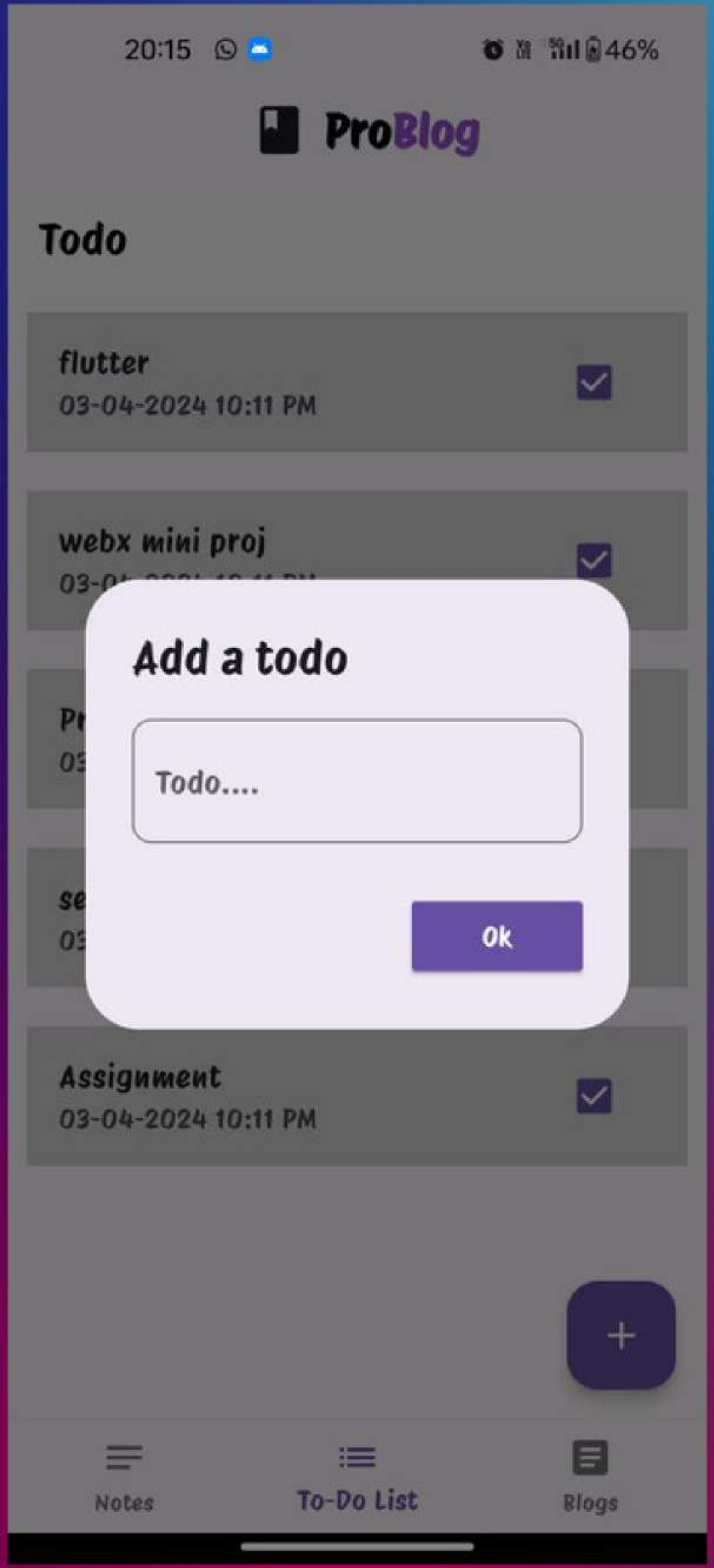
flutter
03-04-2024 10:11 PM ☑

webx mini proj
03-04-2024 10:11 PM ☑

Presentation
03-04-2024 10:11 PM ☐

sem 6 mini proj
03-04-2024 10:11 PM ☑

Assignment
03-04-2024 10:11 PM ☑


20:15 46%

ProBlog

Todo

flutter
03-04-2024 10:11 PM ☑

webx mini proj ☑

Add a todo

Todo....

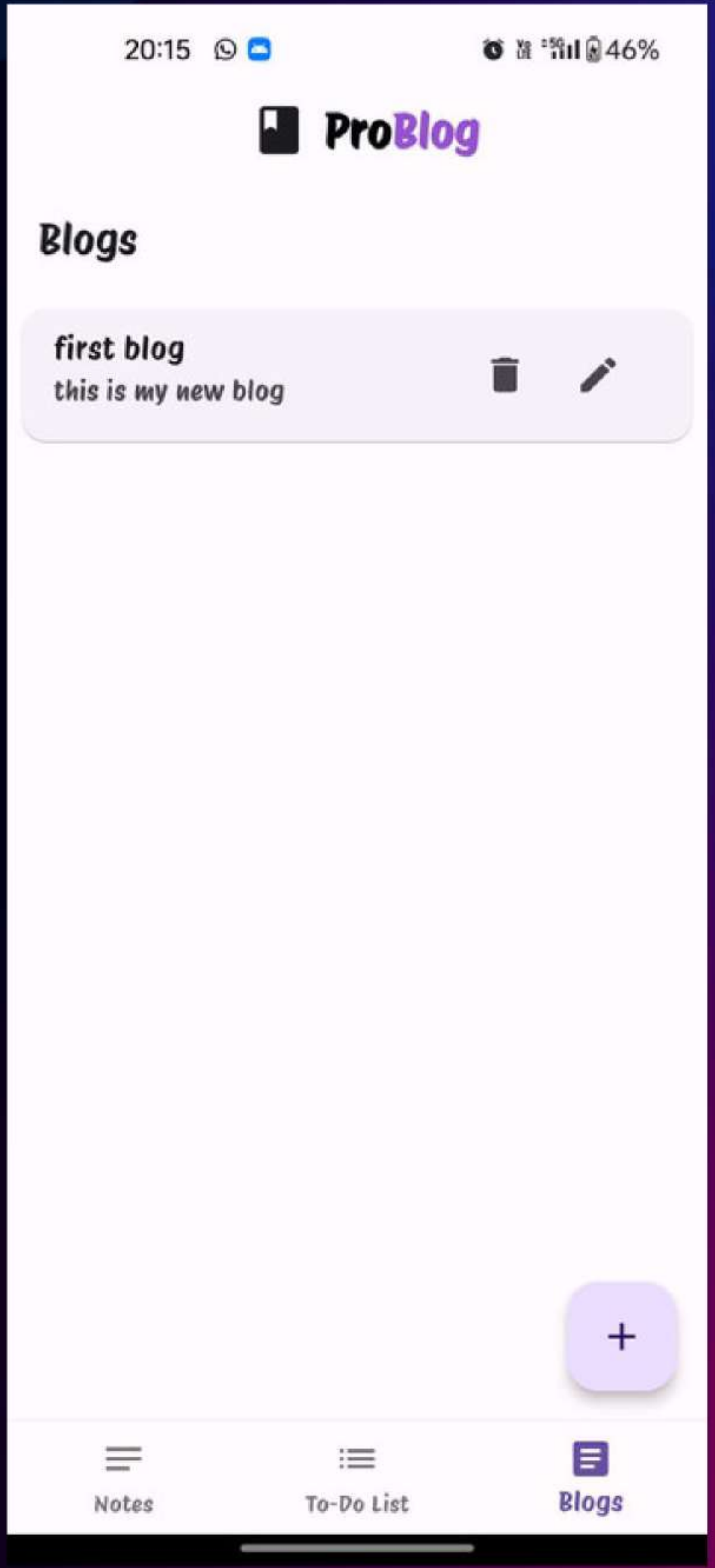
Ok

Assignment
03-04-2024 10:11 PM ☑

ProBlog

Blogs Page and Add Blog

- We have created two pages for the blogs feature as well.
- The first page displays the blogs that are created with the title and content.
- The second page is to add the blogs. Both the title and content field are connected to the backend to save and fetch the data to display it on the main page.

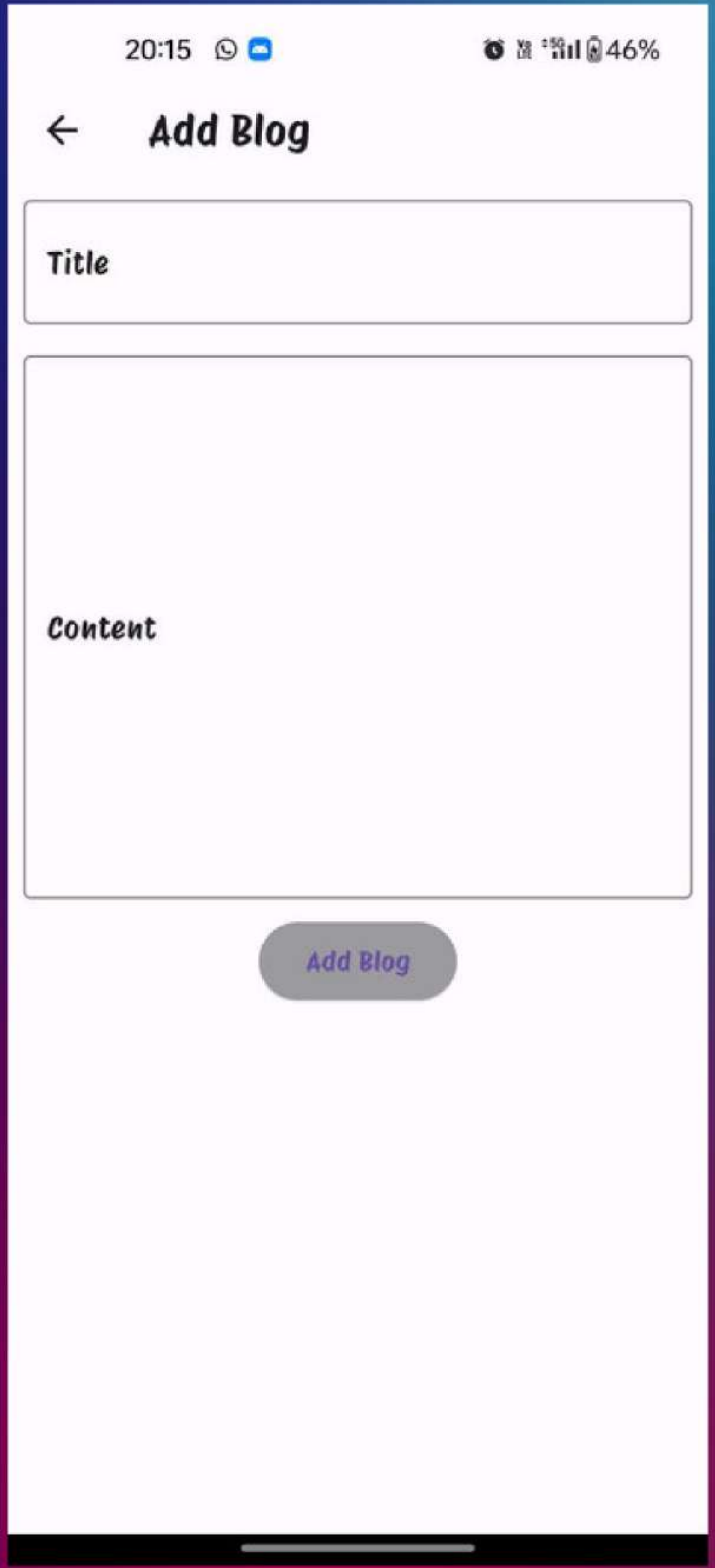


20:15 46%

ProBlog

Blogs

first blog
this is my new blog



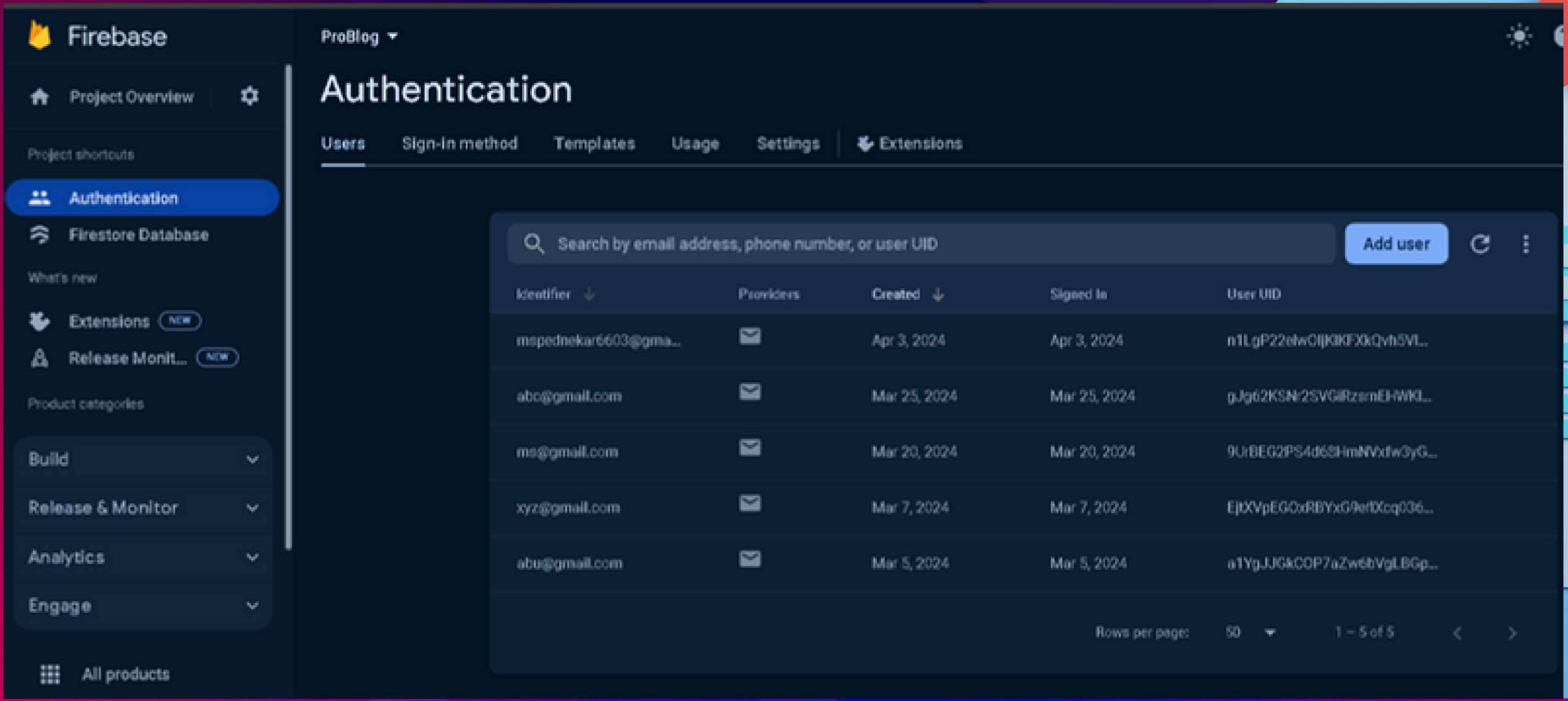
20:15 46%

Add Blog

Title

Content

FIREBASE AUTHENTICATION

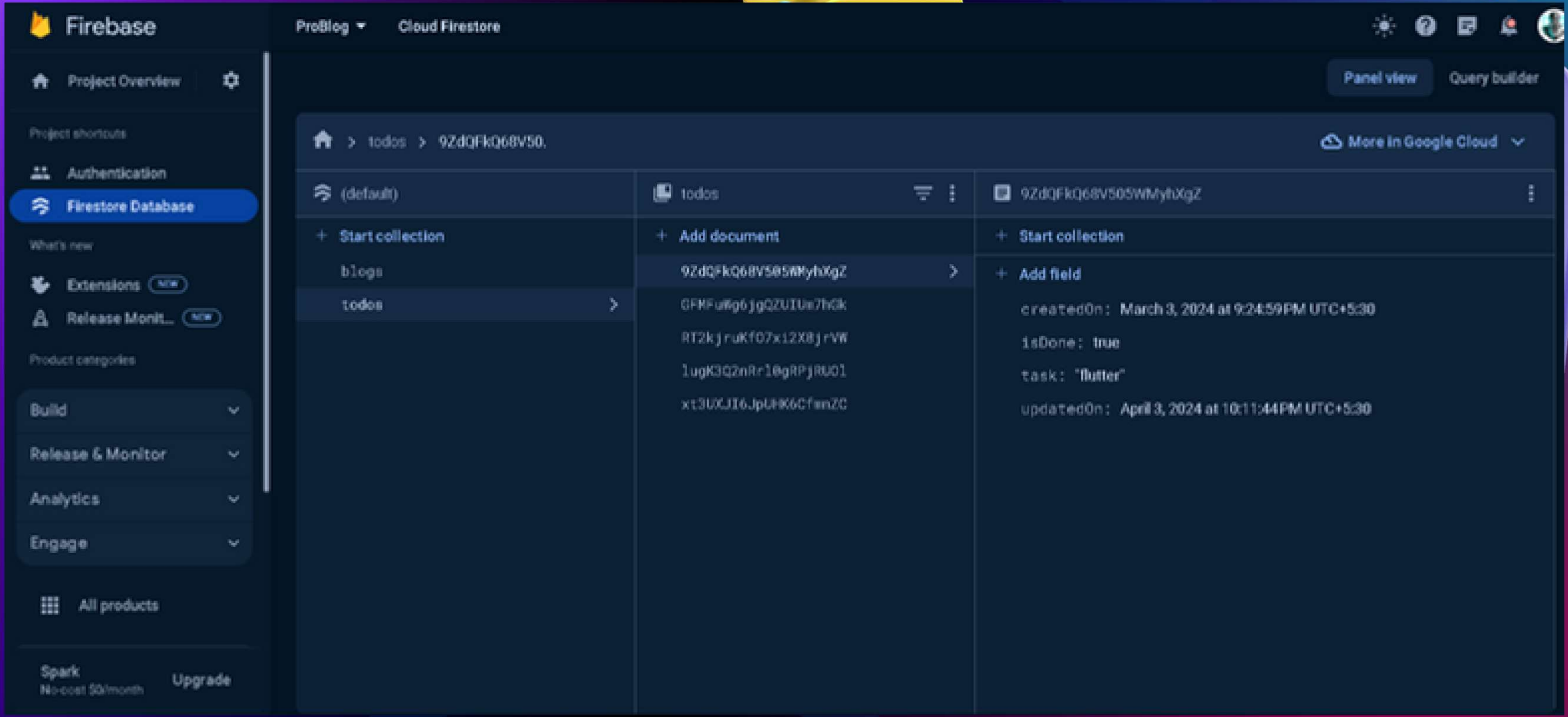


Identifier	Providers	Created	Signed In	User UID
mspednekar6603@gma...	✉	Apr 3, 2024	Apr 3, 2024	n1LgP22elwOljKlKFXkQvh5Vl...
abc@gmail.com	✉	Mar 25, 2024	Mar 25, 2024	gJg62KSNr2SVGiRzsmEHWKl...
ms@gmail.com	✉	Mar 20, 2024	Mar 20, 2024	9UrBEG2PS4d68HmNVxdw3yG...
xyz@gmail.com	✉	Mar 7, 2024	Mar 7, 2024	EjtXVpEGOxRBYxG9efXcq036...
abu@gmail.com	✉	Mar 5, 2024	Mar 5, 2024	a1YgJJGkCOP7aZw6bVgLBGp...

Rows per page: 50

1 – 5 of 5

FIRESTORE DATABASE



todos > 9ZdQFkQ68V50.

(default)

- blogs
- todos

todos

- 9ZdQFkQ68V505WMyhXgZ
- GFMFuWg6jgQZUIUm7hGk
- RT2kjruKfO7xi2X8jrVW
- lugK3Q2nRrl0gRPjRUO1
- xt3UXJI6JpUHK6CfmnZC

9ZdQFkQ68V505WMyhXgZ

```
createdOn: March 3, 2024 at 9:24:59PM UTC+5:30
isDone: true
task: "flutter"
updatedOn: April 3, 2024 at 10:11:44PM UTC+5:30
```

LITERATURE SURVEY

Paper Title	Authors	Publication	Summary
Design and Development of a Productivity App	John Smith, Emily Johnson	IEEE Xplore	This paper presents the design and development process of a productivity app for Android. It discusses the user interface design, features implemented, and usability testing conducted.
A Study on Mobile App Usage Patterns for Productivity	Sarah Brown, Michael Williams	ACM Digital Library	This study analyzes the usage patterns of productivity apps on mobile devices. It explores user behaviors, popular features, and factors influencing user engagement and satisfaction.
Enhancing User Productivity through Mobile Apps	David Lee, Jennifer Garcia	Journal of Mobile Technology	This paper examines the role of mobile apps in enhancing user productivity. It discusses strategies for designing effective productivity apps, including task management, time tracking, and goal setting.

ProBlog

CONCLUSION

- The Flutter project for a notes and to-do list application presents an exciting opportunity to create a valuable tool for users seeking efficient task management and note-taking capabilities, while also showcasing the versatility and capabilities of the Flutter framework.
- With careful planning, execution, and continuous refinement based on user feedback, the application has the potential to become a valuable asset in users' daily lives.

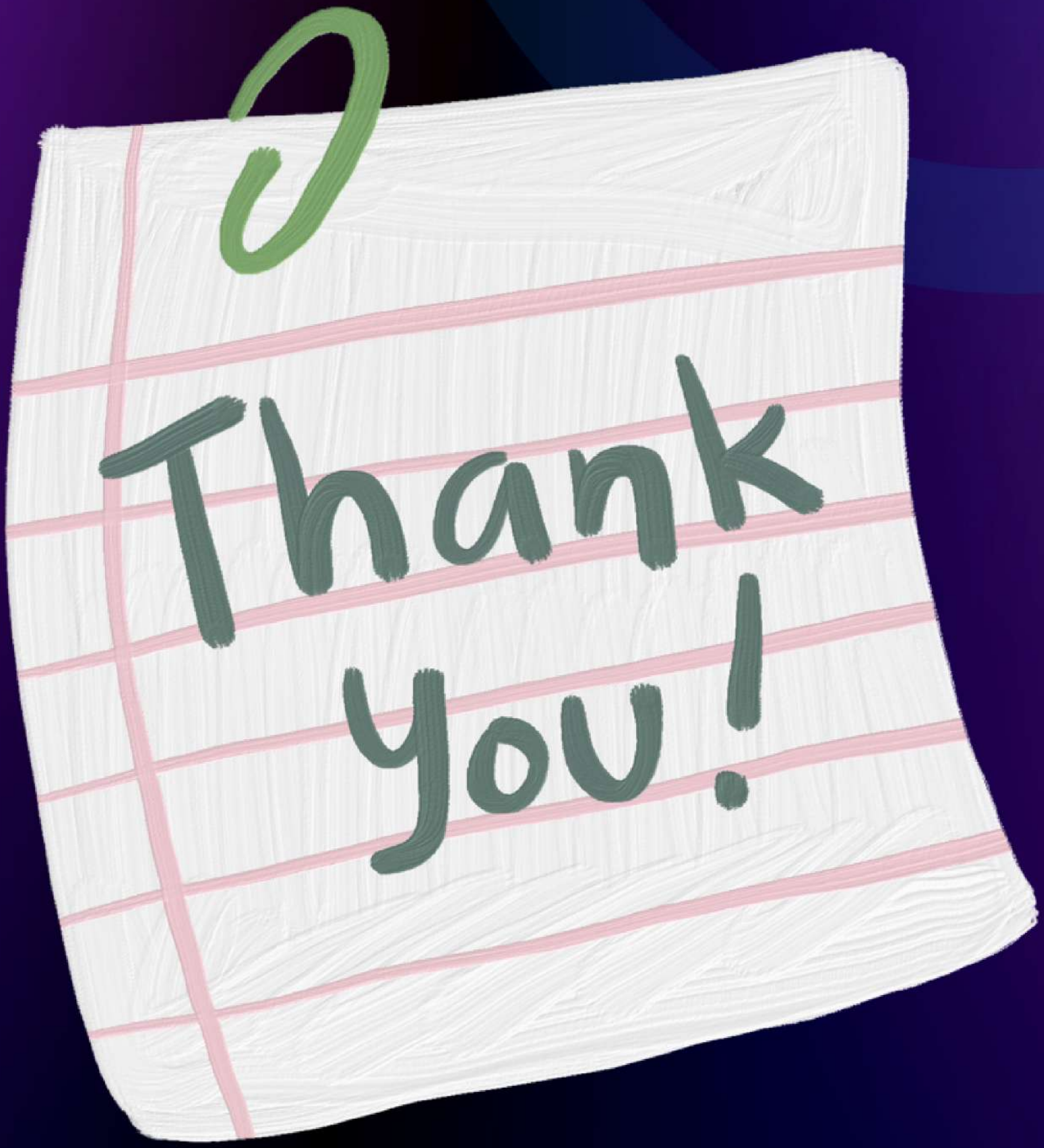
REFERENCES

[1] "Flutter documentation" Link: Flutter documentation

[2] "Firebase for Flutter" Link: Firebase for Flutter

[3] "SQLite for Flutter" Link: SQLite for Flutter

ProBlog



Footcap

Footcap: Progressive Web App on Ecommerce Website

Presented by Mayuresh Pednekar

Roll No. 53
Div: D15B
Batch: C

Contents

1. Introduction to the project
2. Problem Statement
3. Objectives of the project
4. Before the Implementation of PWA
5. After adding PWA features

Footcap

Introduction

- We have added PWA features in our footwear e-commerce website footcap to provide a seamless experience to the customers.

- Progressive Web Apps combine the best of web and mobile applications, providing users with a fast, reliable, and engaging experience right from their browser.

- With FootCap's PWA features, customers can seamlessly browse our extensive catalog, make purchases, and interact with our site.

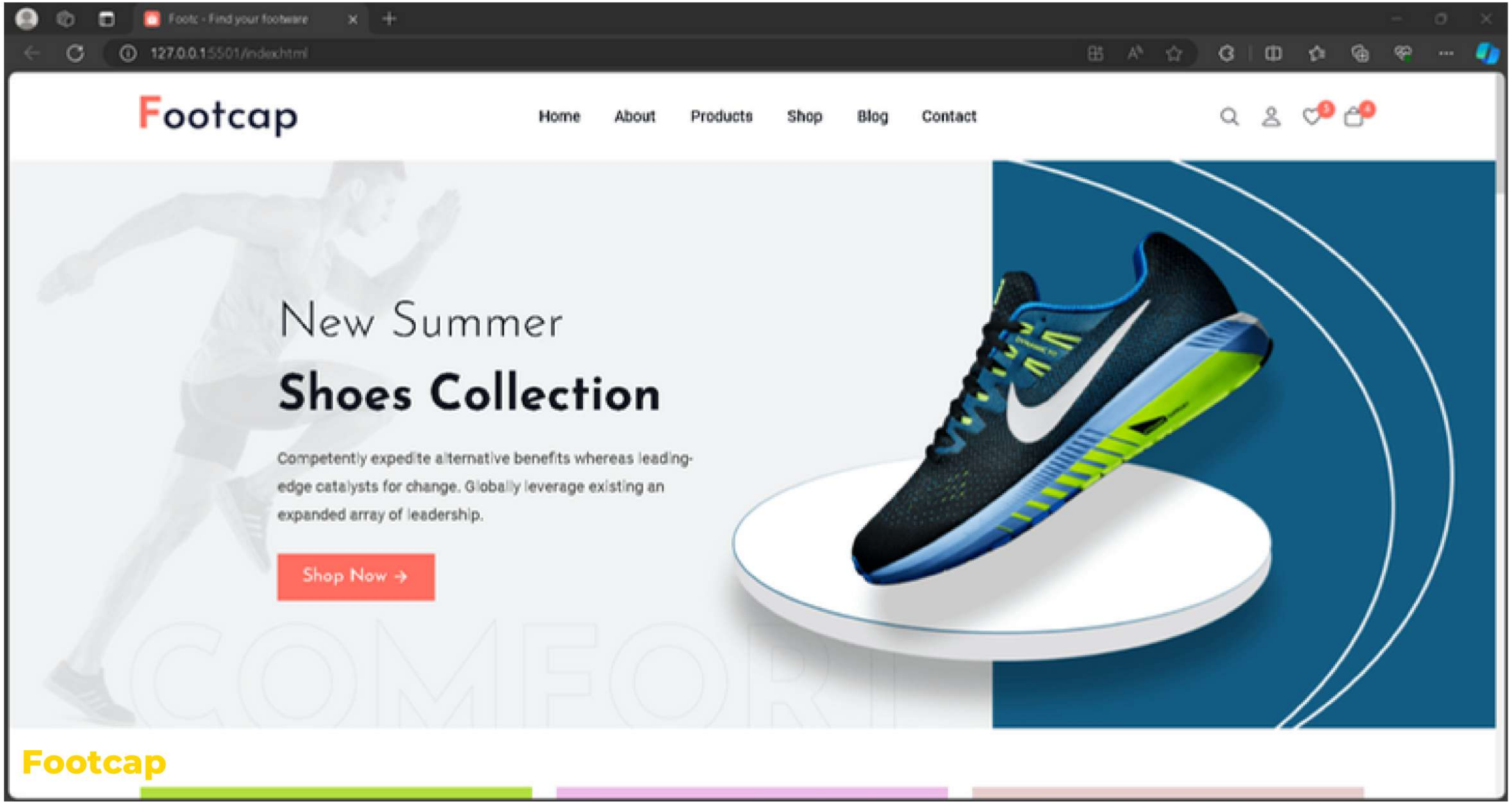
Problem Statement

To add PWA features like offline functionality, notifications and app like functioning on an e-commerce website

OBJECTIVES

- To add an install function to be able to install the website as an application on our desktop.
- To add offline functionality feature in our pwa by saving the cache in the memory to load the webpage without internet.
- To add a notification feature to be able to push notifications through our progressive web app.
- To deploy our project on Github pages and check its functioning.
- To check the PWA functioning using Google's inbuilt tool Lighthouse.

Before the Implementation of PWA



New Summer

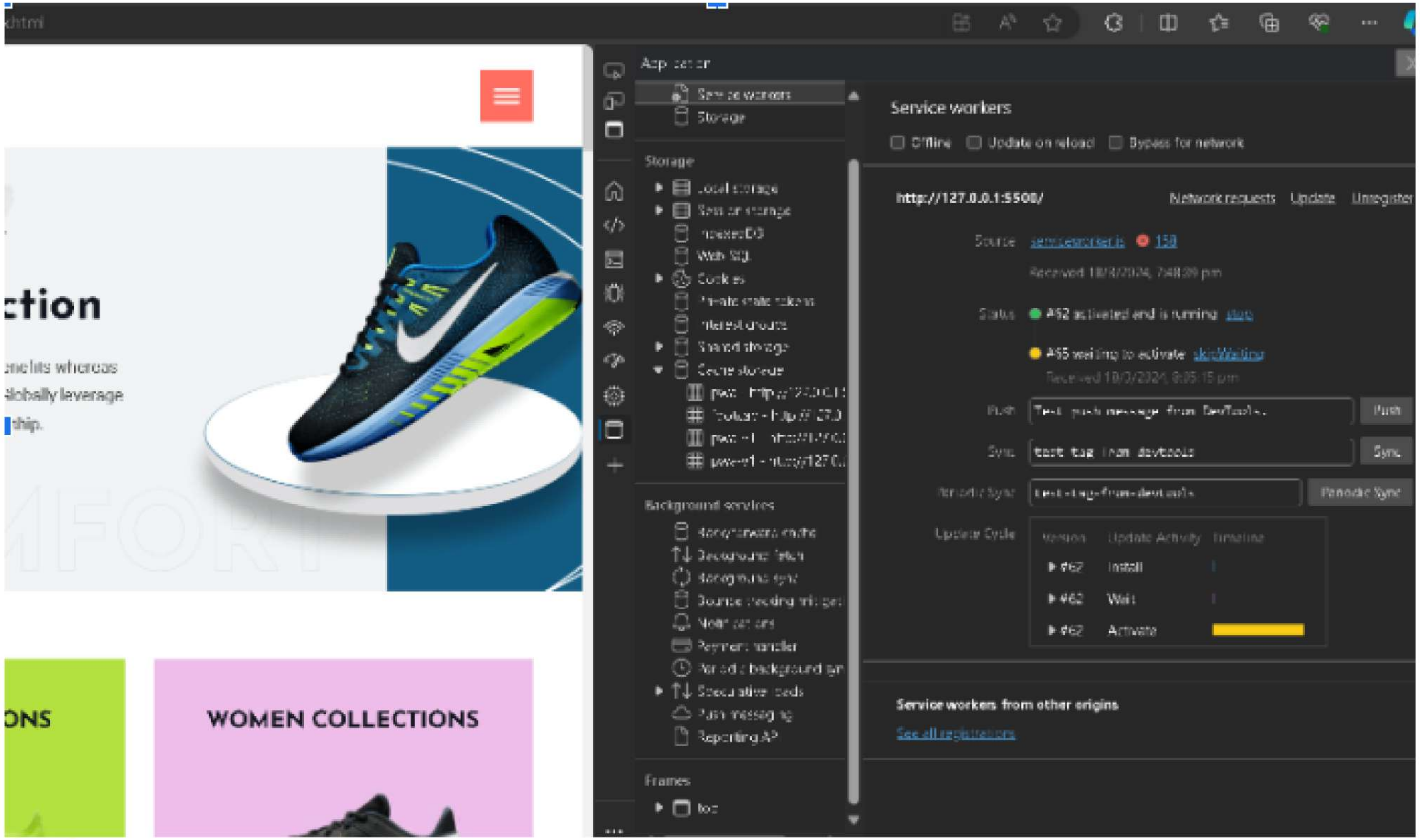
Shoes Collection

Competently expedite alternative benefits whereas leading-edge catalysts for change. Globally leverage existing an expanded array of leadership.

Shop Now →

Footcap

Registering and activating service worker



Service workers

□ Offline □ Update on reload □ Bypass for network

http://127.0.0.1:5500/ Network requests Update Unregister

Source serviceworker.js 158

Received 10/3/2024, 7:48:39 pm

Status ● #62 activated and is running stop

● #65 waiting to activate skipWaiting

Received 10/3/2024, 8:05:15 pm

Push: Test push message from DevTools. Push

Sync: test-tag-from-devtools Sync

Periodic Sync: test-tag-from-devtools Periodic Sync

Update Cycle

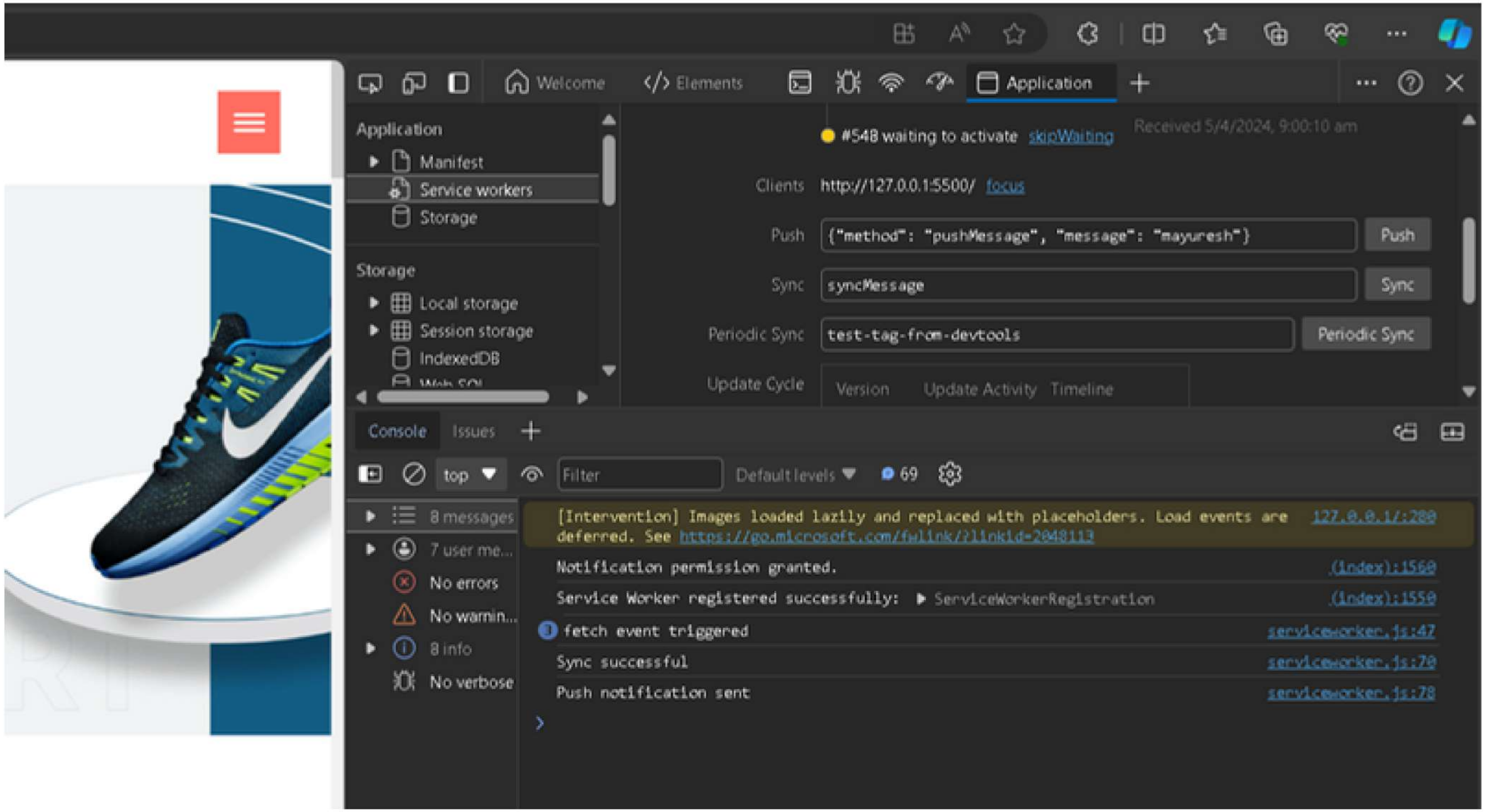
Version	Update Activity	Timeline
▶ #62	Install	
▶ #62	Wait	
▶ #62	Activate	

Service workers from other origins

See all registrations

Footcap

fetch, sync and push using service worker



#548 waiting to activate skipWaiting Received 5/4/2024, 9:00:10 am

Clients http://127.0.0.1:5500/ focus

Push {"method": "pushMessage", "message": "mayuresh"}

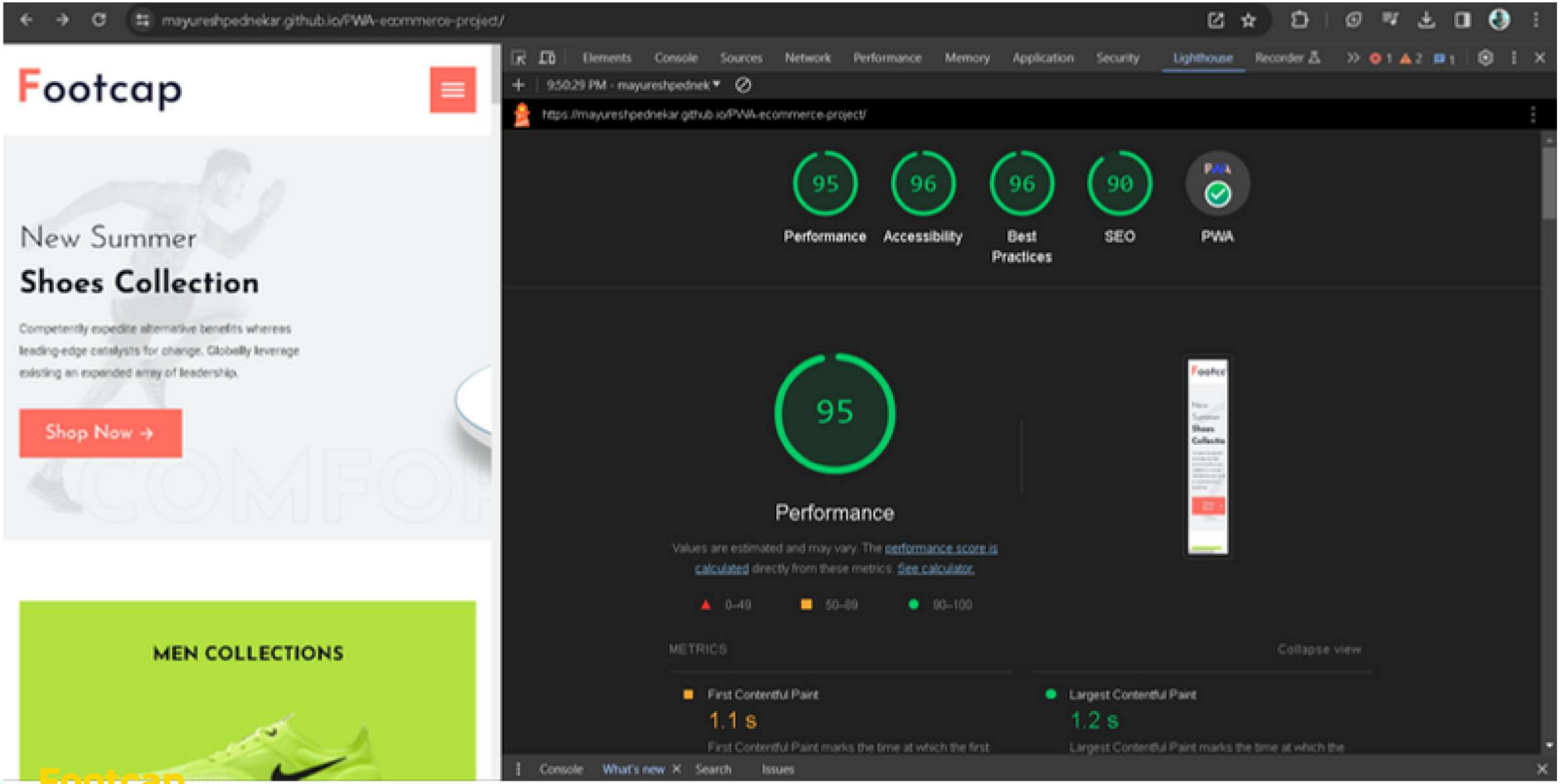
Sync syncMessage

Periodic Sync test-tag-from-devtools

```
[Intervention] Images loaded lazily and replaced with placeholders. Load events are   127.0.0.1/:280
deferred. See https://go.microsoft.com/fwlink/?linkid=2048113
Notification permission granted.                                                     (index):1560
Service Worker registered successfully: ▶ ServiceWorkerRegistration                  (index):1550
3 fetch event triggered                                                             serviceworker.js:47
Sync successful                                                                     serviceworker.js:70
Push notification sent                                                              serviceworker.js:78
```

Footcap

Analyzing PWA functioning using Lighthouse


mayureshpednekar.github.io/PWA-ecommerce-project/
Elements
Console
Sources
Network
Performance
Memory
Application
Security
Lighthouse
Recorder
9:50:29 PM - mayureshpednek
https://mayureshpednekar.github.io/PWA-ecommerce-project/
Console
What's new
Search
Issues

Footcap

New Summer

Shoes Collection

Competently expedite alternative benefits whereas leading-edge catalysts for change. Globally leverage existing an expended array of leadership.

Shop Now →

MEN COLLECTIONS

95 Performance

96 Accessibility

96 Best Practices

90 SEO

PWA

95

Performance

Values are estimated and may vary. The performance score is calculated directly from these metrics. See calculator.

▲ 0–49 ■ 50–89 ● 90–100

METRICS

Collapse view

■ First Contentful Paint

1.1 s

First Contentful Paint marks the time at which the first

● Largest Contentful Paint

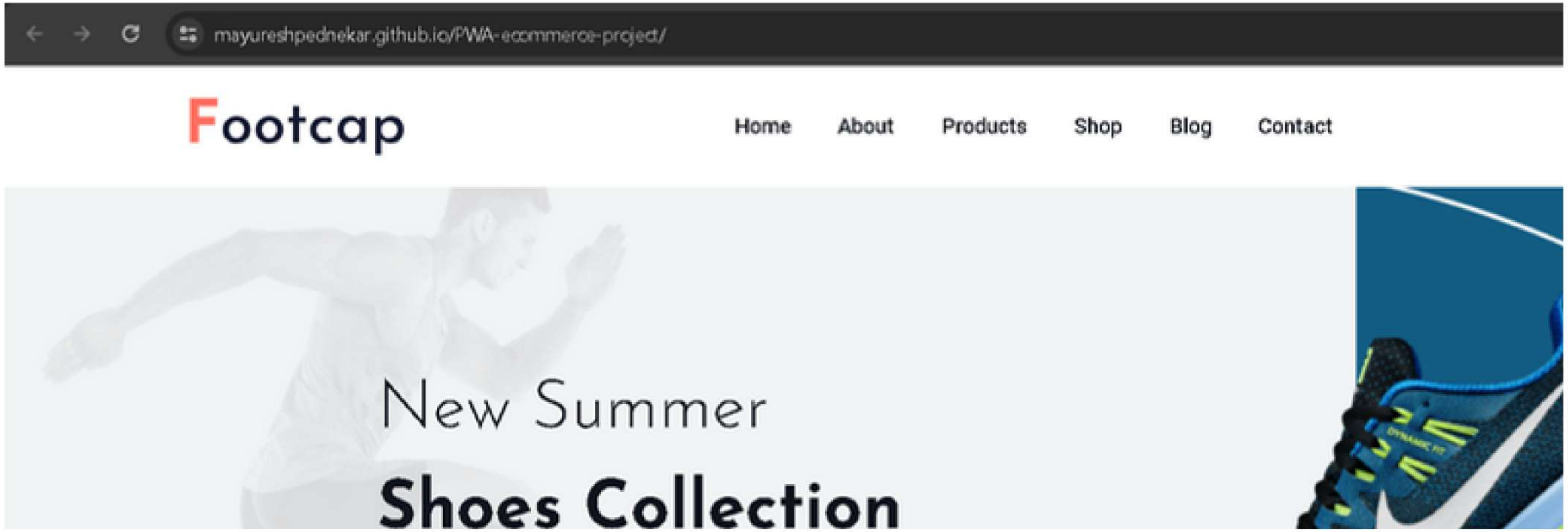
1.2 s

Largest Contentful Paint marks the time at which the

Footcap

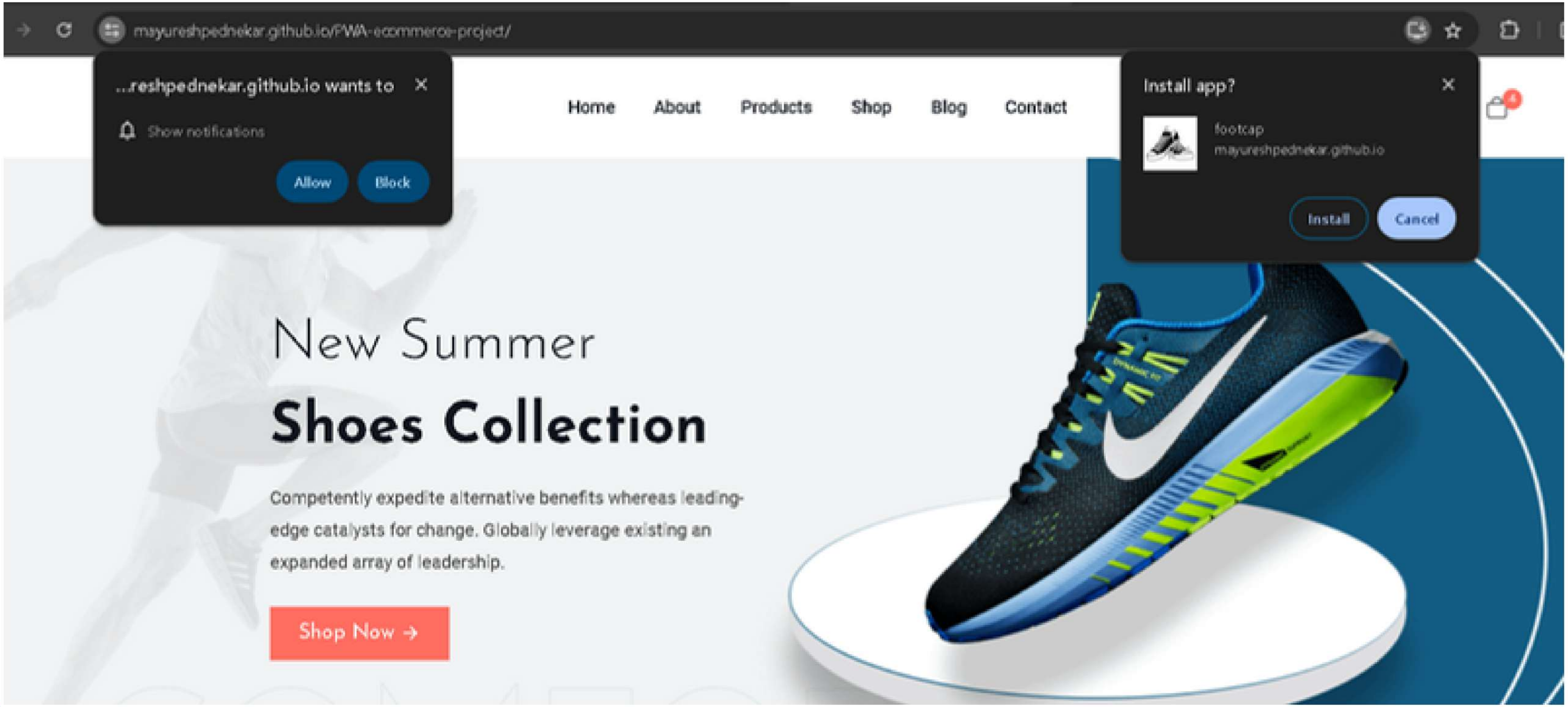
Github Pages

LInk: https://mayureshpednekar.github.io/PWA-ecommerce-project/



mayureshpednekar.github.io/PWA-ecommerce-project/

After adding PWA features



mayureshpednekar.github.io/PWA-ecommerce-project/

...reshpednekar.github.io wants to

Show notifications

Install app?

footcap
mayureshpednekar.github.io

New Summer

Shoes Collection

Competently expedite alternative benefits whereas leading-edge catalysts for change. Globally leverage existing an expanded array of leadership.

Footcap

Thank You!