



Vivekanand Education Society's
Institute of Technology

Pomodoro- timer-app

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Roll no: 68

Div: D15B

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Introduction

- The Pomodoro Technique, developed by Francesco Cirillo, is a time management method designed to improve productivity and focus.
- It involves breaking work into intervals, typically 25 minutes long, followed by short breaks.
- The Pomodoro Timer app serves as a digital implementation of the Pomodoro Technique,

Problem Statement



In today's fast-paced work and study environments, individuals often struggle with maintaining focus, managing distractions, and optimizing their productivity. Traditional time management methods may be ineffective or cumbersome to implement, leading to wasted time and decreased efficiency.

There is a need for a digital solution that simplifies the implementation of the Pomodoro Technique, a proven method for enhancing productivity through structured work intervals and breaks.

This solution should provide users with an intuitive interface, customizable settings, and helpful features to facilitate effective time management and maximize productivity in various tasks and activities."

Objectives

- User-Friendly Interface Development
- Implementation of Pomodoro Technique Logic
- Customization Options
- Productivity Tracking Features
- Testing and Performance Refinement

Features

- Custom Timer
- Notification Customization
- Statistics and Insights
- User Friendly UI
- Work History

Requirements (Hardware)

Development Machine:

- Processor: Intel Core i5 or better (or equivalent)
- RAM: 8 GB minimum, 16 GB recommended
- Storage: At least 10 GB of free space for the development environment, dependencies, and project files
- Internet Connection:

User Devices:

- Mobile Devices: Compatible with modern iOS and Android devices
- Screen Resolution: Supports various resolutions for compatibility across devices

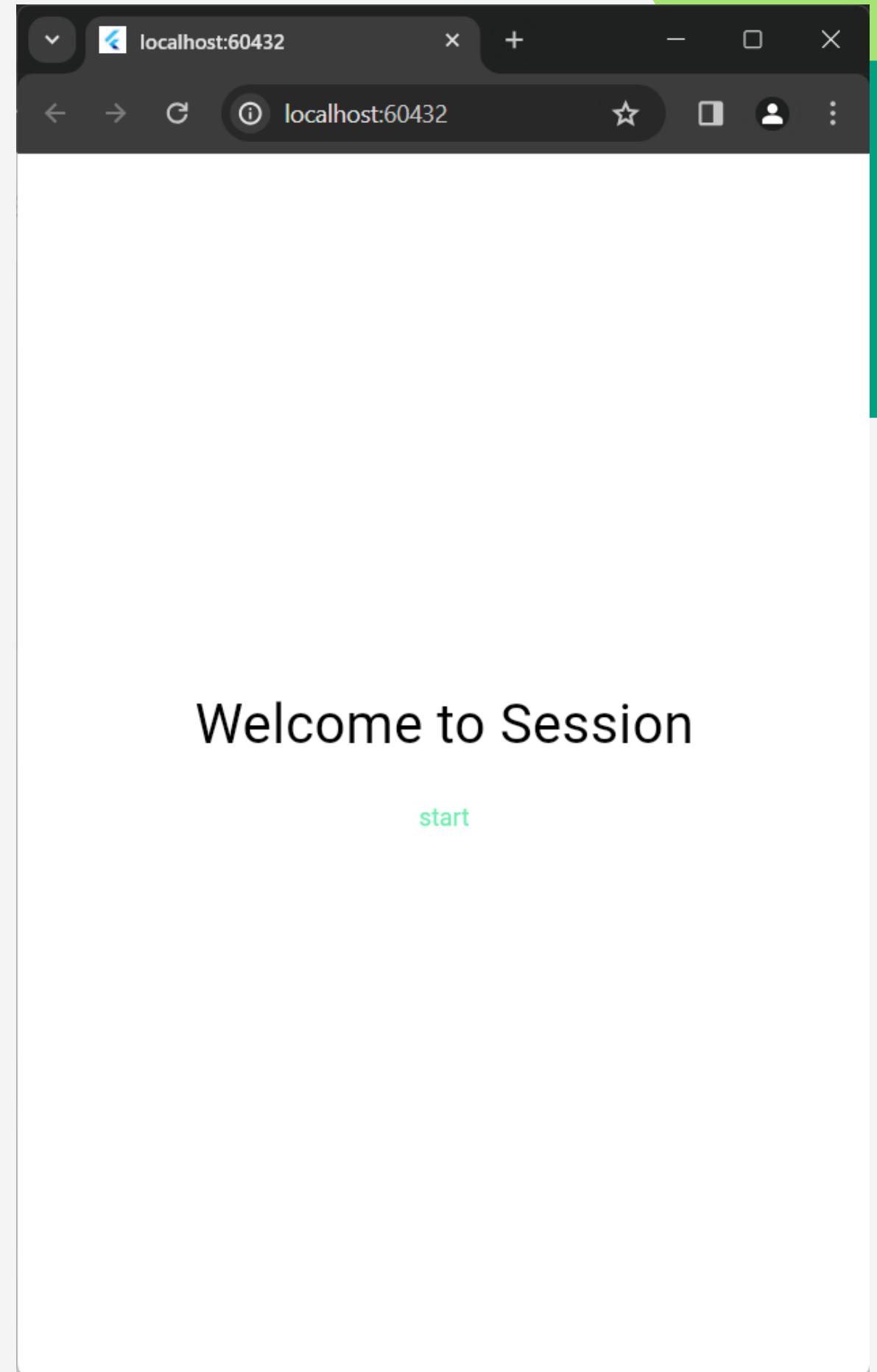
Requirements (Software)

- **Development Environment:**
 1. Flutter SDK
 2. Dart
 3. Android Studio IDE
 4. Android emulator
 5. Git
- **Firebase**

Implementation

Landing Page

- This is the starting point of the pomodoro application
- From here the user is redirected to the timer setter form where the user can customize the timer according to them.



Implementation

This is the actual form from where the user input is taken, here the user chooses the work duration, break duration and long break duration

The screenshot shows a web browser window with the URL `localhost:60432`. The page title is "Start session". It contains three input fields: "Work duration" (in minutes), "Break duration" (in minutes), and "Sessions" (number of work sessions). A large green button labeled "Start" is at the bottom. The background features a green decorative wavy pattern at the bottom.

Start session

Work duration
(in minutes)

Break duration
(in minutes)

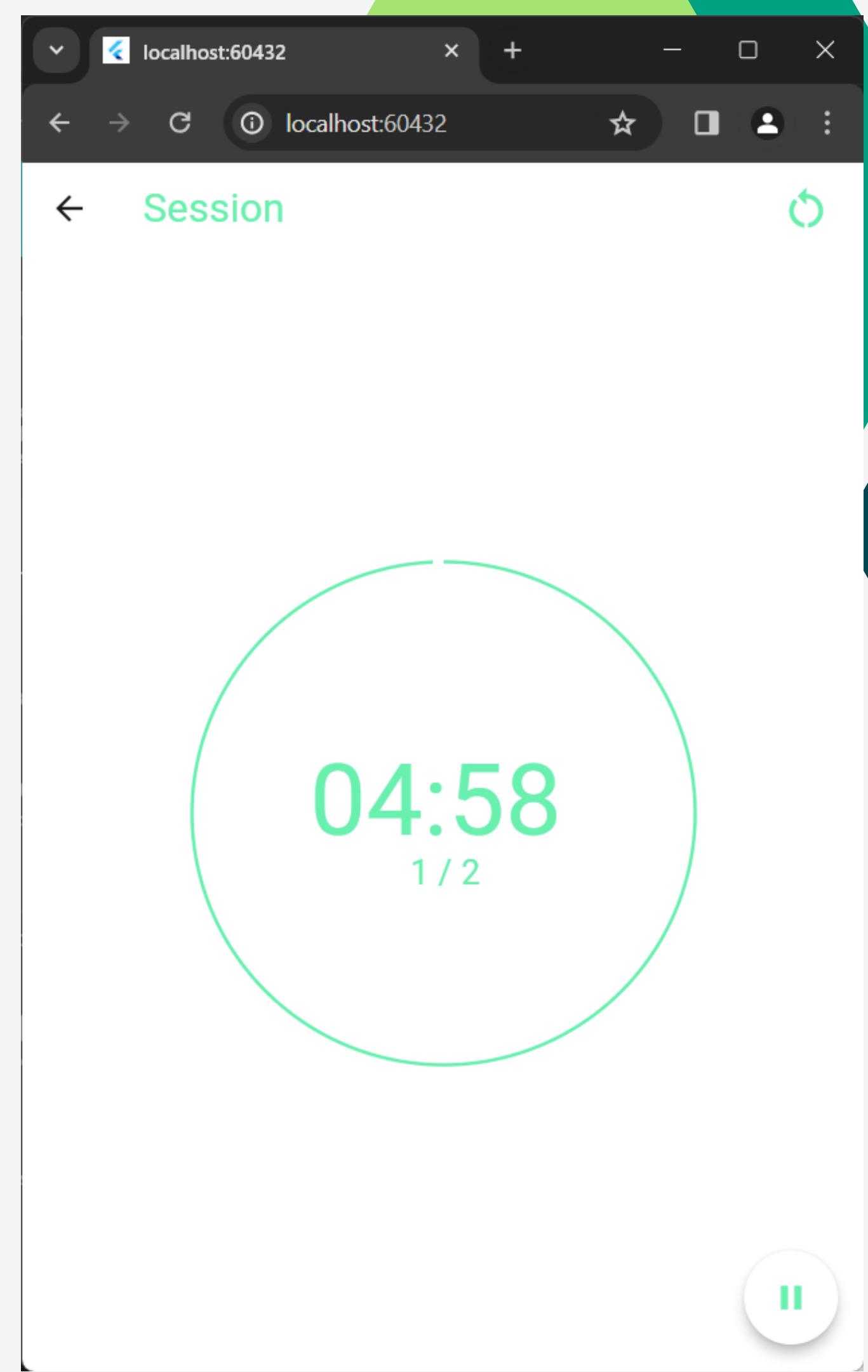
Sessions
(number of work sessions)

Start

Implementation

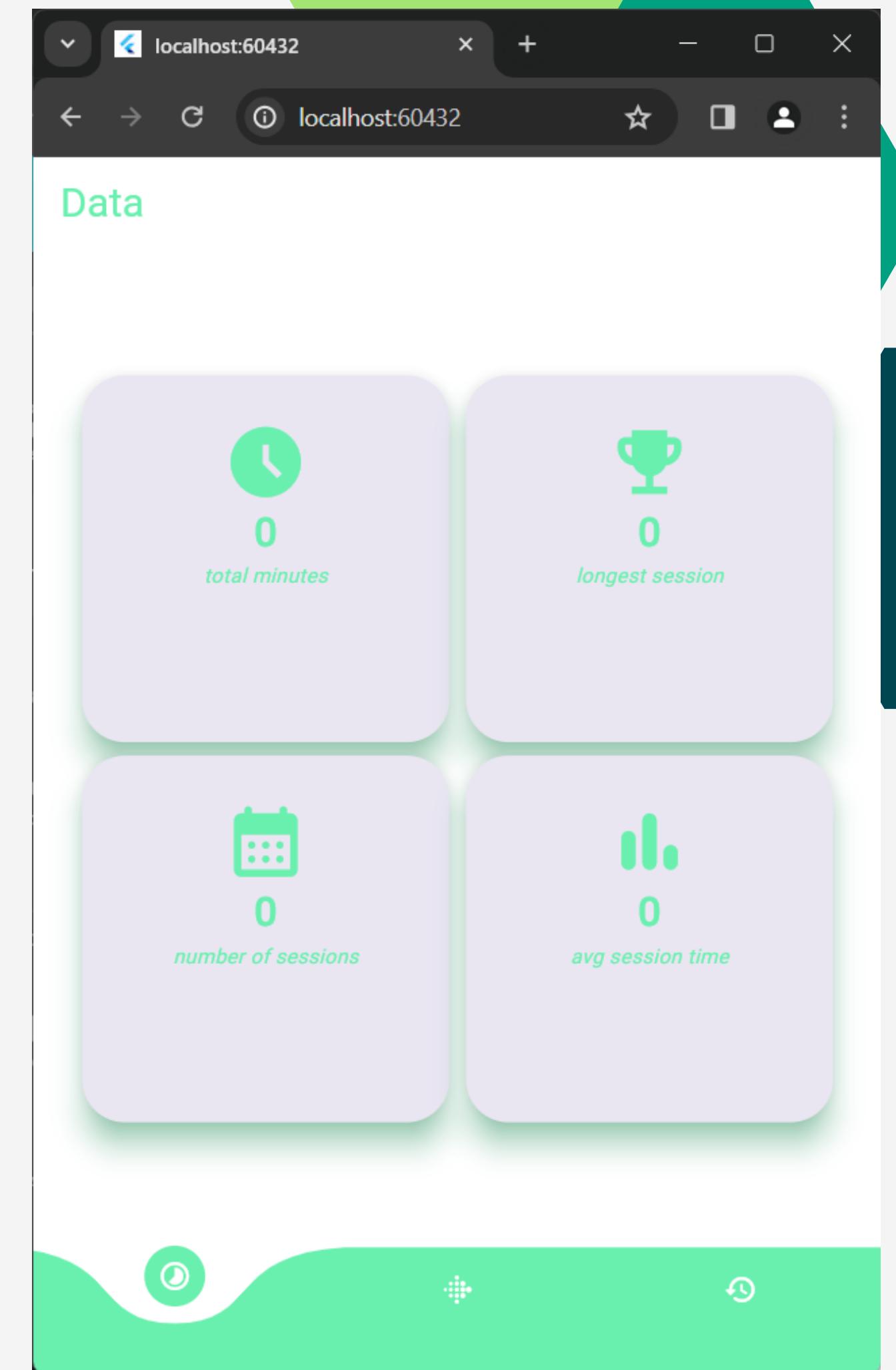
After submitting the form the work timer starts, followed by the short break and then the long break automatically.

The user can manually pause any timer that they want.

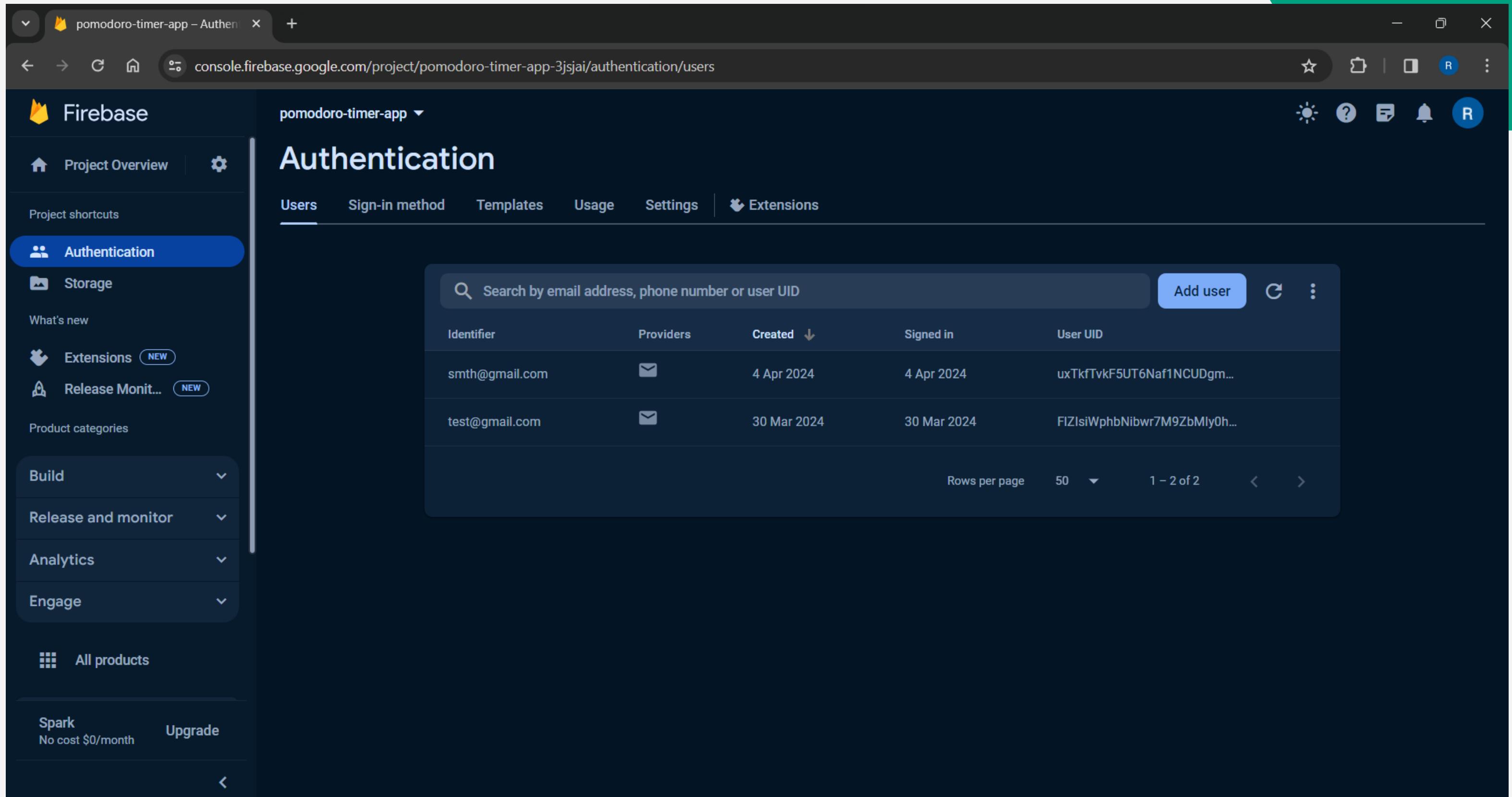


Implementation

This is the logs section of the app, here the user gets the information of all the work user has done, and different information based on their activities.



Implementation



The screenshot shows the Firebase Authentication console for the project "pomodoro-timer-app". The left sidebar contains project navigation links like Project Overview, Authentication (which is selected and highlighted in blue), Storage, Extensions, and Release Monitor. The main content area is titled "Authentication" and displays the "Users" tab. A search bar at the top allows searching by email address, phone number, or user UID. Below it is a table listing two users:

Identifier	Providers	Created	Signed in	User UID
smth@gmail.com	✉️	4 Apr 2024	4 Apr 2024	uxTkfTvK5UT6Naf1NCUDgm...
test@gmail.com	✉️	30 Mar 2024	30 Mar 2024	FIZIsiWphbNibwr7M9ZbMly0h...

At the bottom of the table, there are pagination controls for "Rows per page" (set to 50), "1 – 2 of 2", and navigation arrows.

Conclusion



In summary, the Pomodoro Timer app provides a user-friendly solution for boosting productivity through structured work intervals and breaks. With features like task management integration and customizable settings, users can effectively manage their time and achieve their goals.

By combining simplicity with functionality, the app aims to empower users to work smarter and accomplish more in their daily tasks and projects

References:

NICHD “The Pomodoro Technique: An effective time management tool(2019) - Connection - Science@NICHD.”
<https://science.nichd.nih.gov/confluence/pages/viewpage.action?pageId=160956640>

Wang, Xiaofeng & Gobbo, Federico & Lane, Michael. (2010). Turning Time From Enemy into an Ally using the Pomodoro Technique. 10.1007/978-3-642-12442-6_10.



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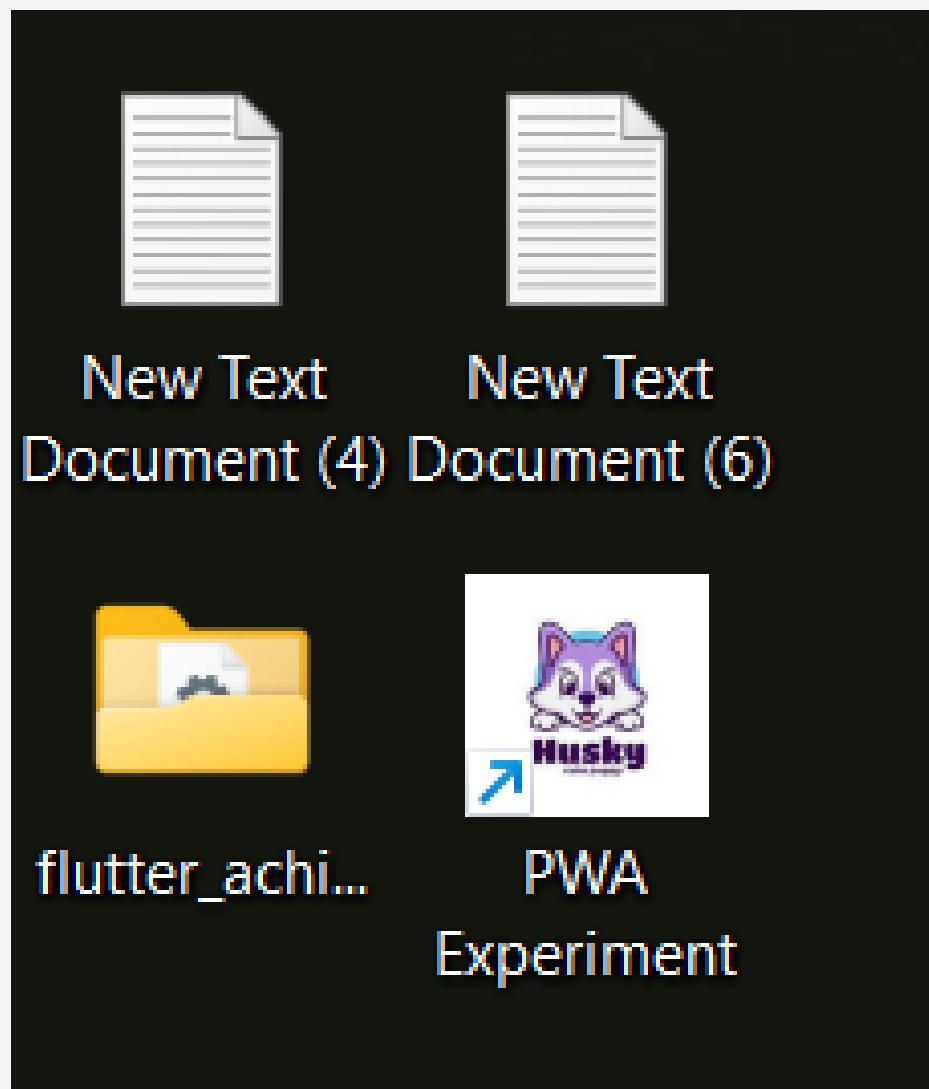
Progressive web application

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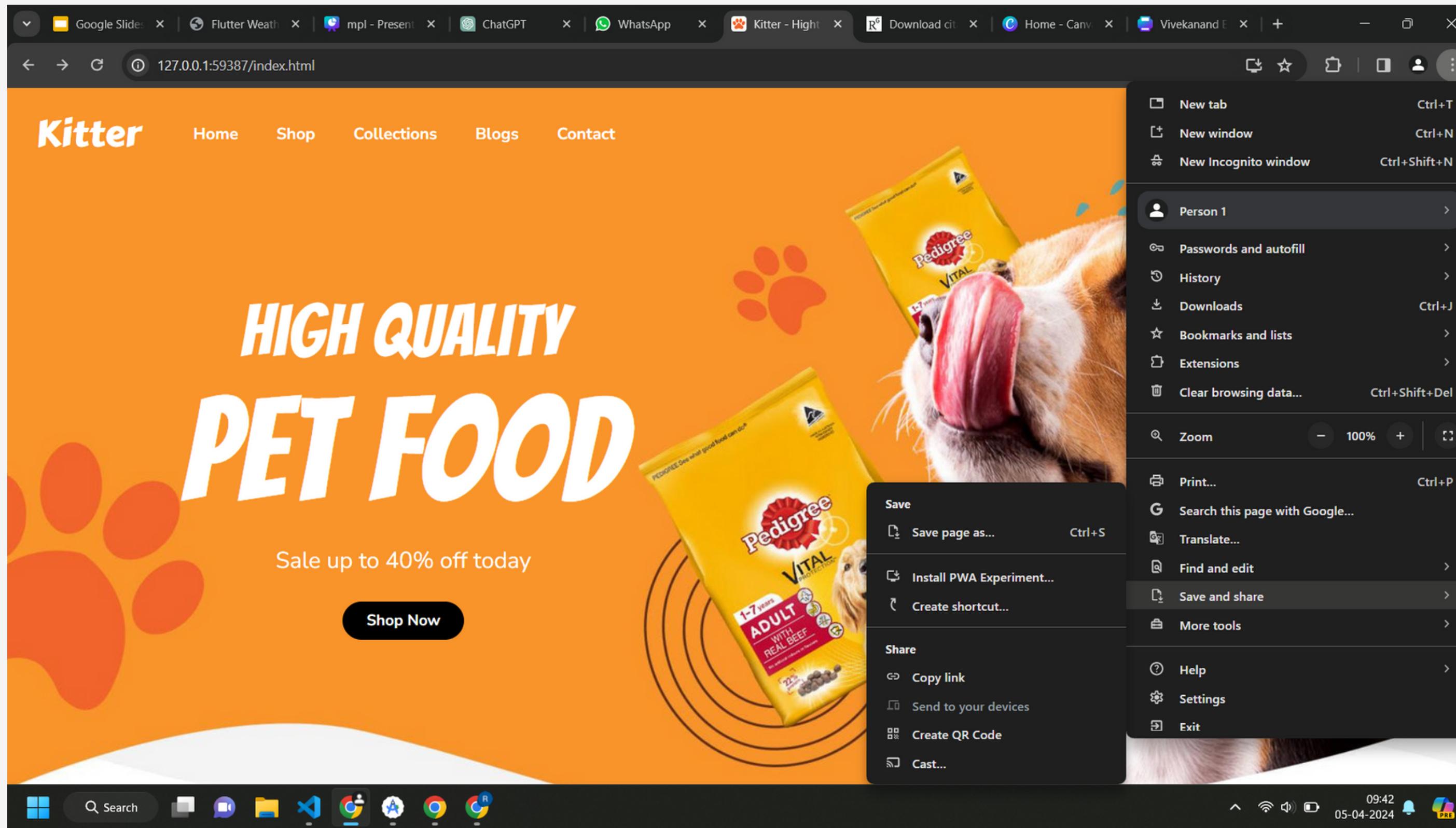
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App on desktop



The PWA is installable



Fetch event

The screenshot shows a web browser window with the URL `127.0.0.1:59387/index.html`. The main content area displays a landing page for "Kitter" featuring a dog licking Pedigree dog food packages. The page includes a banner with "HIGH QUALITY PET FOOD" and a "Sale up to 40% off today" offer, along with a "Shop Now" button. Below the banner, there's a section titled "Top categories". The browser's developer tools are open, specifically the "Console" tab in the DevTools sidebar. The console log contains the following entries:

- A warning message about notifications permission being blocked: "Notifications permission has been blocked as the user has ignored the permission index.html:1 prompt several times. This can be reset in Page Info which can be accessed by clicking the lock icon next to the URL. See <https://www.chromestatus.com/feature/6443143280984064> for more information."
- A success message from a service worker: "SW registered successfully" at index.html:15.
- An event triggered message from a service worker: "fetch event triggered" at serviceworker.js:4.

Push notification

The screenshot shows a web browser window displaying a pet food website named "Kitter". The main content features a large orange banner with the text "HIGH QUALITY PET FOOD" and "Sale up to 40% off today". A button labeled "Shop Now" is visible. Below the banner, there's a section titled "Top categories" with three colored cards (yellow, purple, and pink). The browser's developer tools are open on the right side, specifically the "Application" tab. In the "Service workers" section, it shows a service worker named "serviceworker.js" that was received on 4/5/2024 at 8:50:23 AM. The status is listed as "#2205 activated and is running". There are buttons for "Push" and "Sync". Under "Periodic Sync", there's a field set to "test-tag-from-devtools" with a "Periodic Sync" button. The "Update Cycle" section shows a timeline with three entries: "Install" (version #2205), "Wait" (version #2205), and "Activate" (version #2205, highlighted with a yellow bar). At the bottom, a "Frames" section lists "top". A green decorative shape is partially visible on the right side of the image.

Google Slides | Flutter Weath | mpl - Present | ChatGPT | WhatsApp | Kitter - Hight | Download cit | Home - Canv | Vivekanand E | +

127.0.0.1:59387/index.html

Dimensions: Responsive ▾ 965 x 756 85% ▾ No throttling ▾

Application | Elements | Console | Sources | Network | Performance | Application | Service workers | Network requests | Update | Unregister

Manifest | Service workers | Storage

Service workers

Offline | Update on reload | Bypass for network

http://127.0.0.1:59387/ | serviceworker.js | Received 4/5/2024, 8:50:23 AM

Status: #2205 activated and is running | Stop

Push: Push data | Push

Sync: test-tag-from-devtools | Sync

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

Update Cycle

Version	Update Activity	Timeline
#2205	Install	
#2205	Wait	
#2205	Activate	██████████

Service workers from other origins

See all registrations

Google Chrome

New notification
This is example of a push notification
127.0.0.1:59387

Lighthouse

The screenshot shows a web browser window with multiple tabs open, including "Google Slides", "Flutter Weather App", "mpl - Presentation", "ChatGPT", "WhatsApp", and the current tab "Kitter - High Quality Pet Food". The browser's developer tools are open, specifically the Lighthouse tab under the Performance panel. The URL in the address bar is `http://127.0.0.1:59387/index.html`. The Lighthouse report card displays the following scores:

Metric	Score	Color
Performance	76	Yellow
Accessibility	95	Green
Best Practices	96	Green
SEO	100	Green
PWA	Pass	Green

The main content area of the browser shows the "Kitter" website homepage, which features a large orange banner with a dog, the text "HIGH QUALITY PET FOOD", and a "Shop Now" button. Below the banner, there is a section titled "Top categories". The Lighthouse report also includes a large circular progress indicator for "Performance" with a value of 76, and a smaller preview of the website's layout.

Thank You