



Vivekanand Education Society's Institute Of
Technology
Department Of Information Technology

An app to track
Football club FC
Bayern



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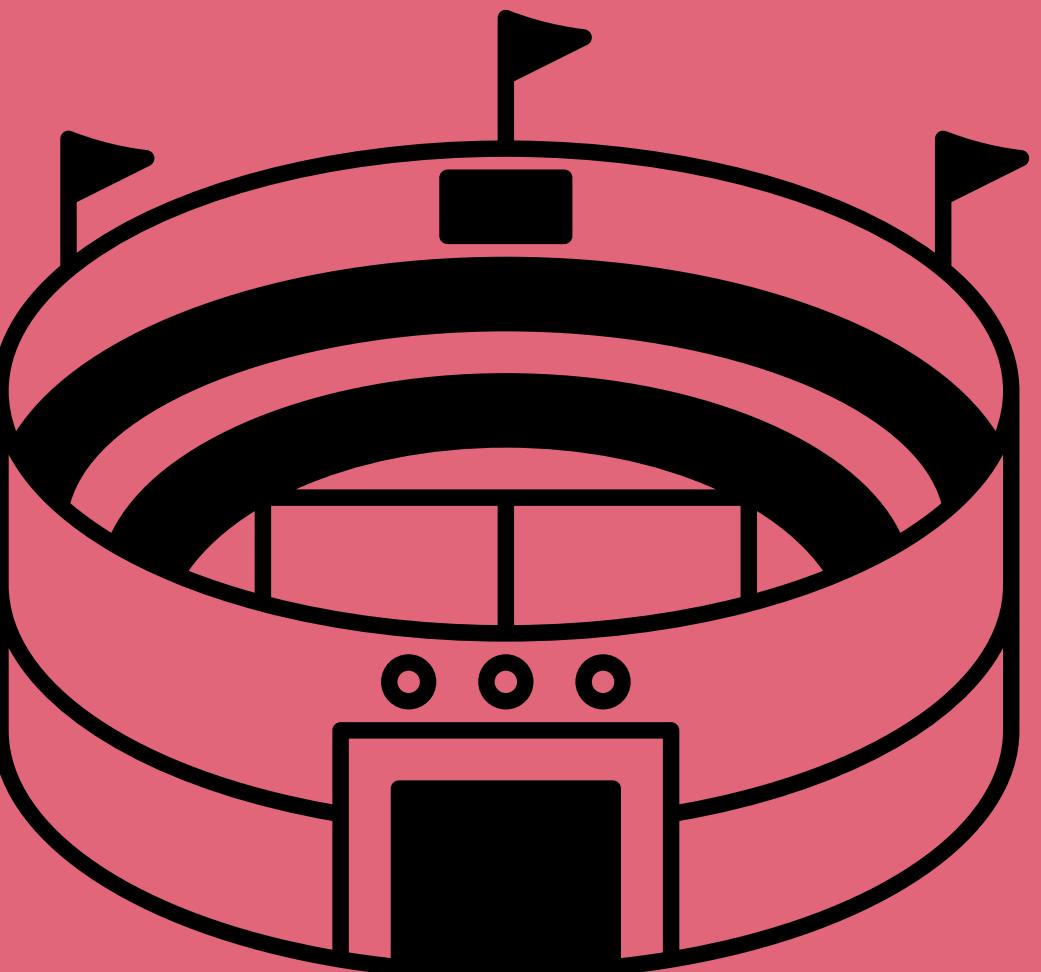
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2. Problem Statement
3. Objectives of the project
4. Requirements of the system (Hardware, software)
5. ER diagram of the proposed system
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Introduction



- Providing a dedicated app for your club needs
- Tracking the stats of the football club
- Getting to know more about the team



Problem statement



- Complex existing apps
- Focus on other clubs
- Size heavy apps



Objectives

- A simple way to track the club
- Having a dedicated app for the football club
- A light app to that provides basic needs of a fan



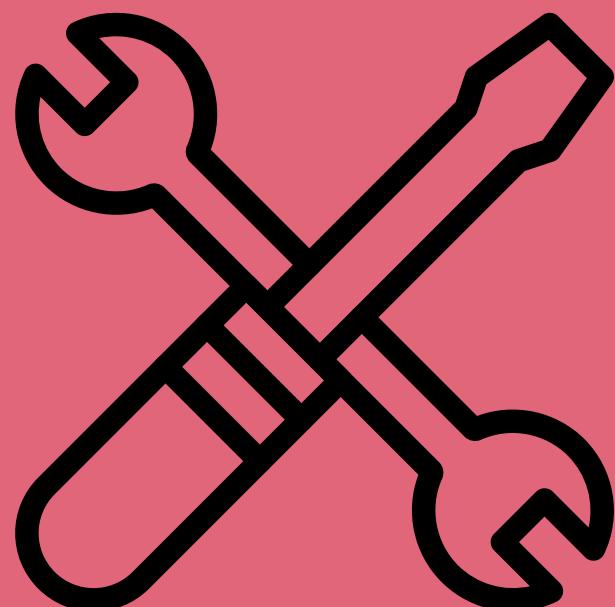
Requirements of the system (Hardware)

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:

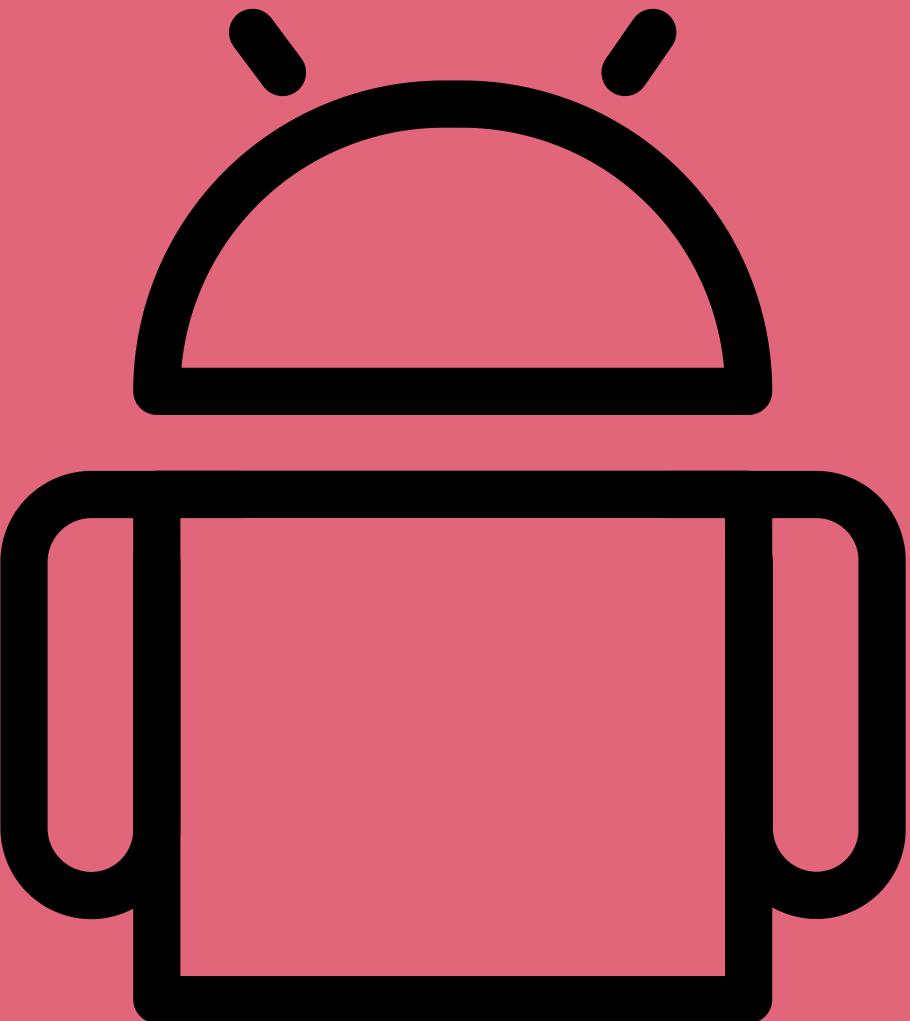
User Devices:

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

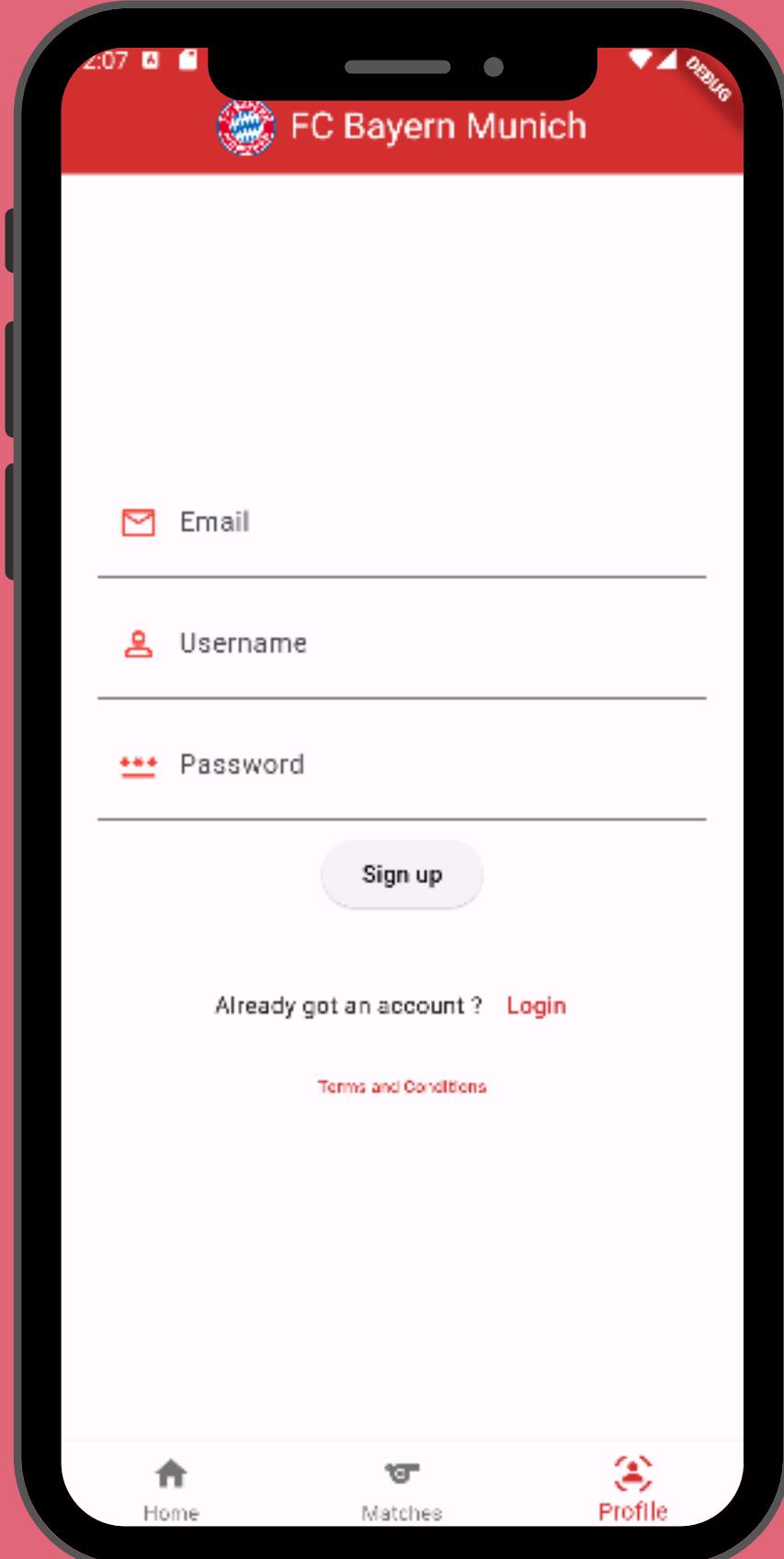


Requirements of the system (Software)

- Development Environment
- Flutter SDK
- Dart
- Android Studio IDE
- Android emulator
- Git
- [Football-data.org API](#)
- Firebase

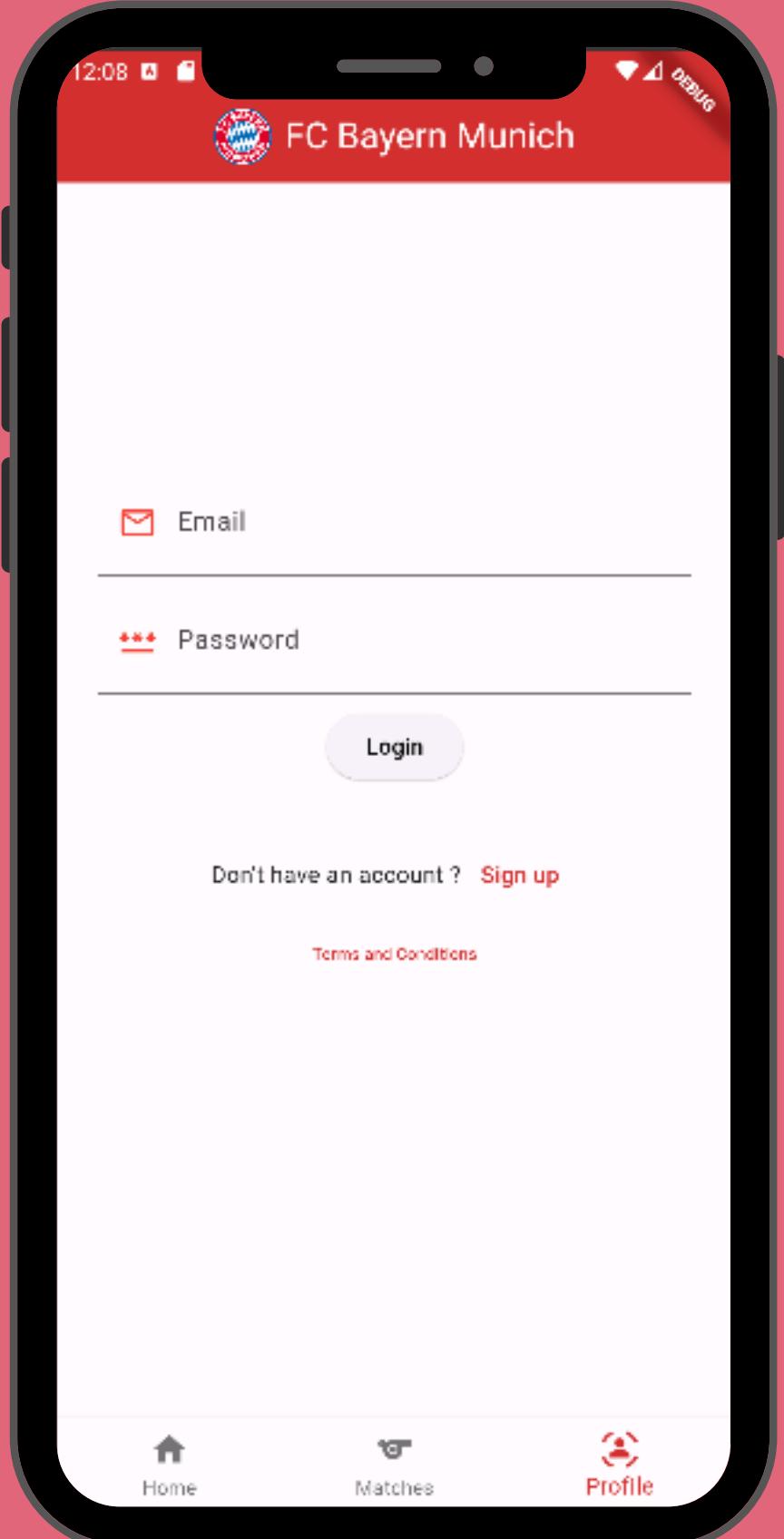


Registration



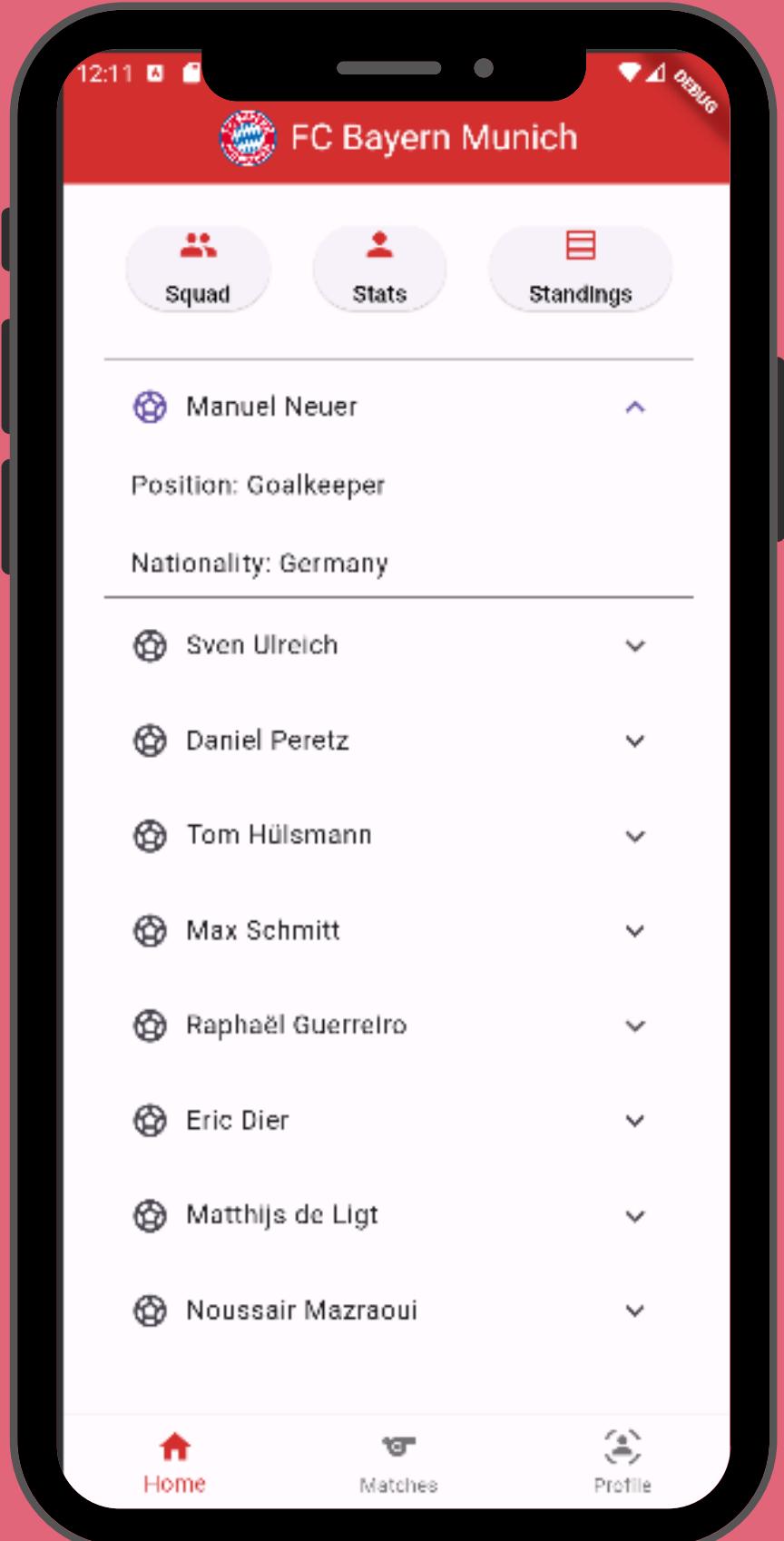
User can sign up in the app,
which is done by firebase's
createuserwithwithemailandpass
word

Login



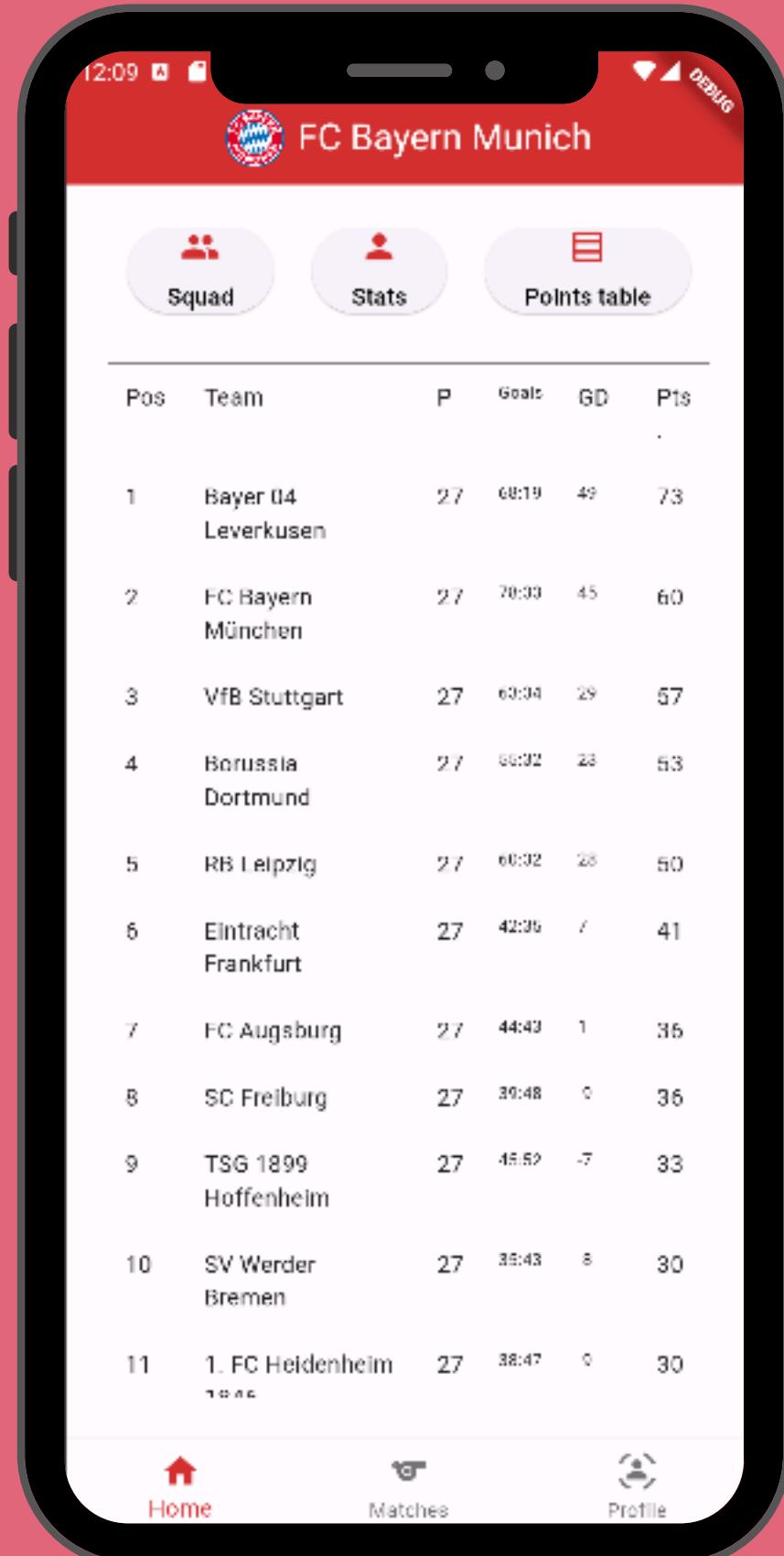
User can login in the app,
which is done using
firebase's
signinwithemailandpassword

Home page



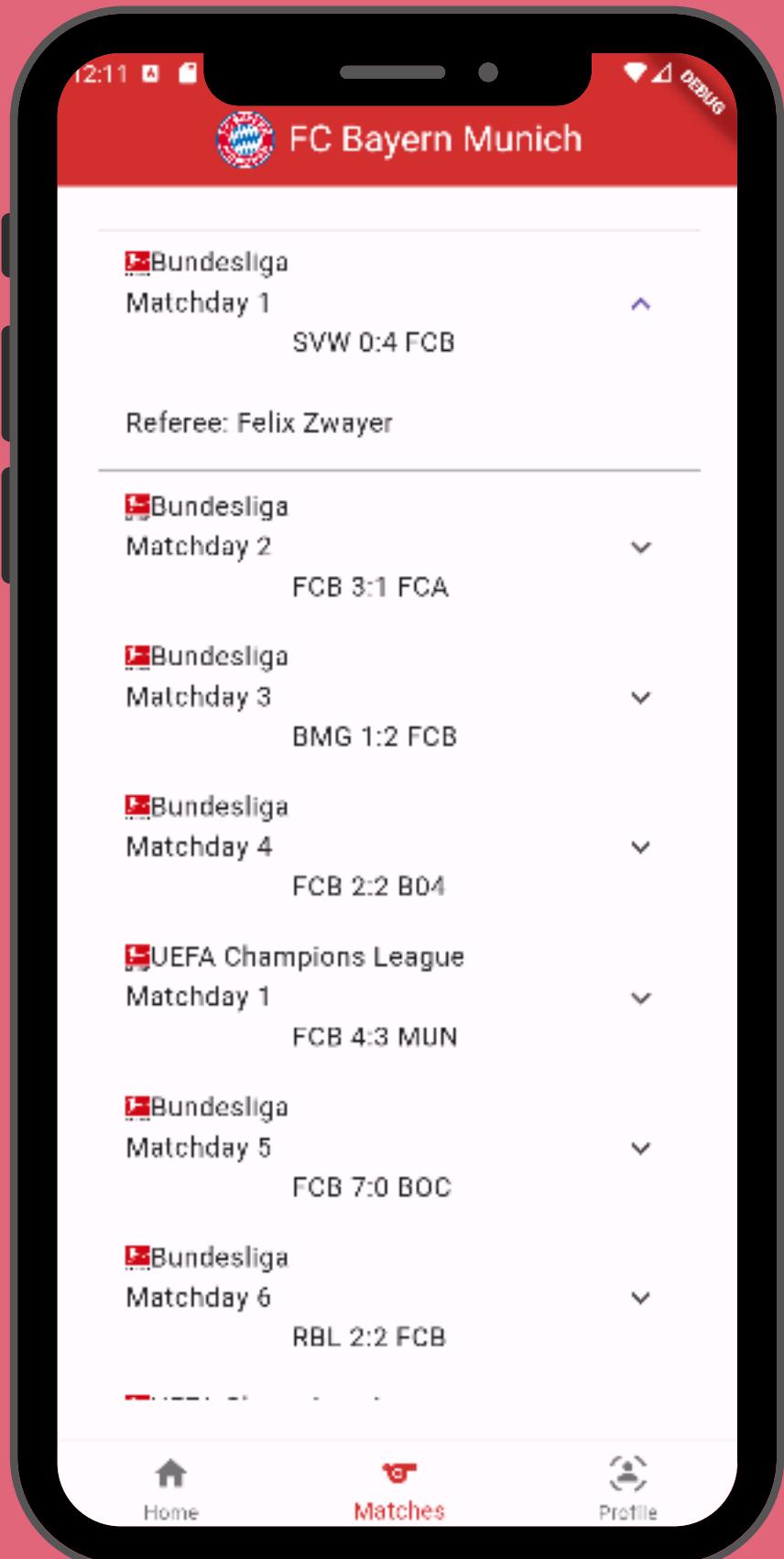
Home page, where the user gets the entire up-to-date squad of the entire team

Standings page



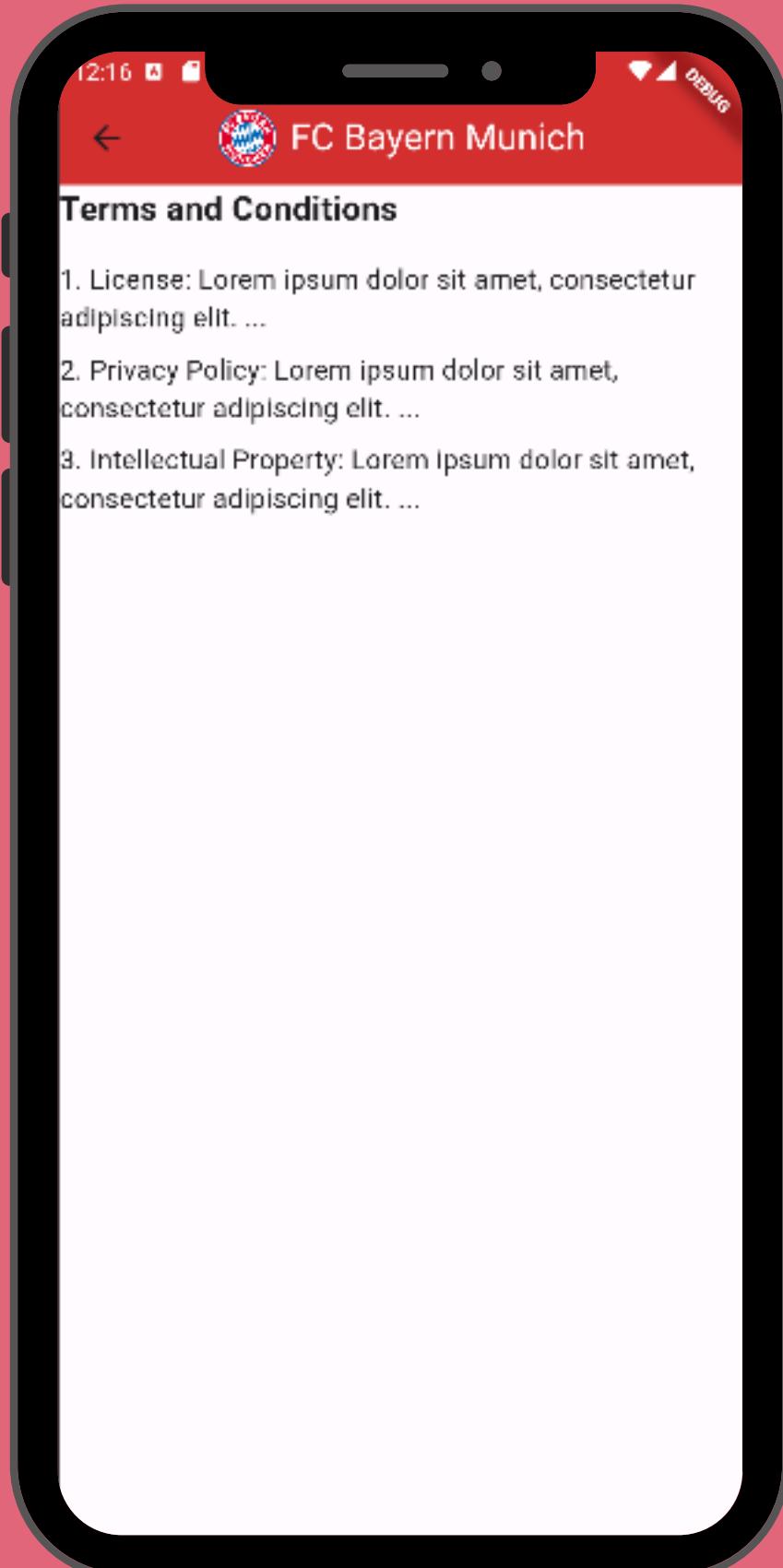
Standings page, where
the user can see the
standings of the team's
home competition

Matches page



Matches page, here the user gets the performance for all the previous matches

Terms page



A simple stateless terms and condition page, which is done using routes

Firebase Authentication

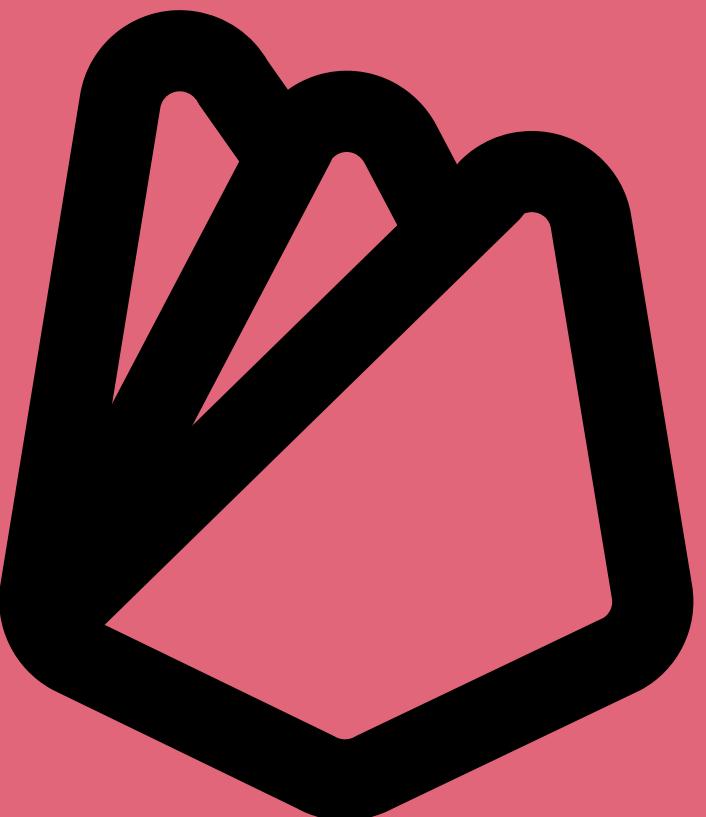
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Authentication

Users Sign-in method Templates Usage Settings Extensions

Identifier	Providers	Created	Signed In	User UID
sohamphalke2003@gm...	✉️	Apr 4, 2024	Apr 4, 2024	2b5A6dyLEtXfJAm9dxsAdGSI...

Rows per page: 50 1 – 1 of 1



Firebase RTDB & storage

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Realtime Database

Data Rules Backups Usage Extensions

https://fcbayern-c79b2-default-rtbd.firebaseio.com/

https://fcbayern-c79b2-default-rtbd.firebaseio.com/

Matches

Points_table

0

- draw: 4
- goalDifference: 49
- goalsAgainst: 19
- goalsFor: 68
- lost: 0
- playedGames: 27
- points: 73
- position: 1

Database location: United States (us-central1)

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Storage

Files Rules Usage Extensions

Protect your Storage resources from abuse, such as billing fraud or phishing Configure App Check X

gs://fcbayern-c79b2.appspot.com

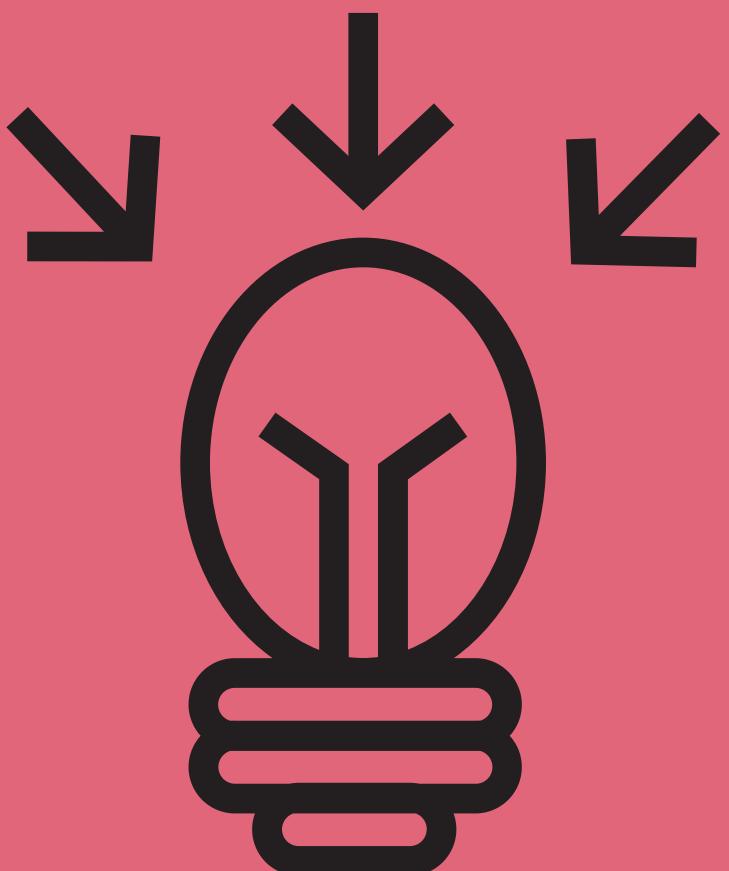
Upload file

Name	Size	Type	Last modified
Competitions/	—	Folder	—



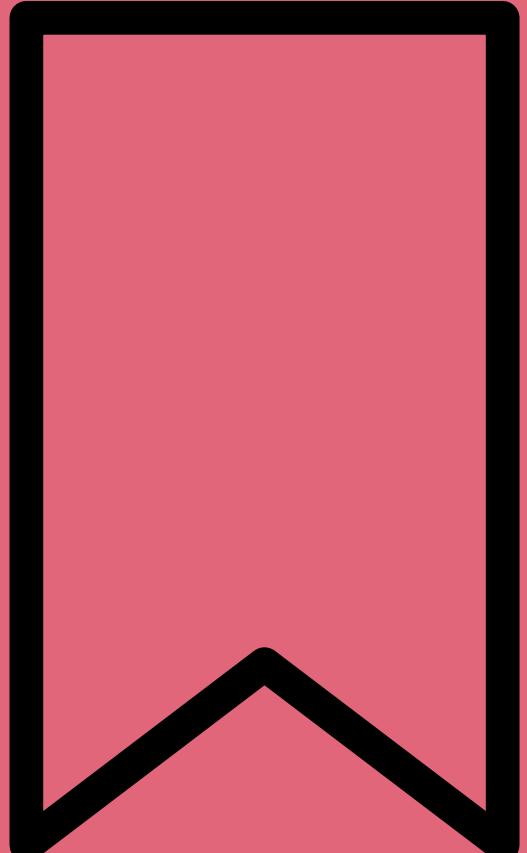
Conclusion

- Comprehensive Football Experience
- Real-Time Database Integration
- API Integration for Data Enrichment



References

- firebase.google. “ Add Firebase to your Flutter app”.
“<https://firebase.google.com/docs/flutter/setup?platform=android> ”.(June 2 2024)
- football-data.org. “API Reference”. “<https://www.football-data.org/documentation/quickstart> ”.(May 20 2022)
- NetNinja. “ Flutter tutorial for beginners ” .“<https://www.youtube.com/@NetNinja> ”.(Aug 21 2019)





Ecommerce PWA Enhancing Experience with PWA's

Introduction

In today's mobile-first world, users expect fast, reliable, and engaging online shopping experiences. Progressive Web Apps (PWAs) provide a solution by bridging the gap between websites and native apps. This presentation will guide you through the key steps to build a powerful e-commerce PWA, enhancing your online store's functionality and user experience.

Essential Features of PWA

1. Add to Homescreen
2. Offline Functionality
3. Push Notifications
4. Fast Loading Speeds

Implementation

127.0.0.1:5500

Search Product...

casmart

Home Shop About Blog Contact

Sign in Cart Wishlist

Fashion Everyday

Unrivalled Fashion House

Shop Now

STYLIST AND MODERN WOMAN FASHION FOR UNRIVALLED WOMAN

Download

Implementation

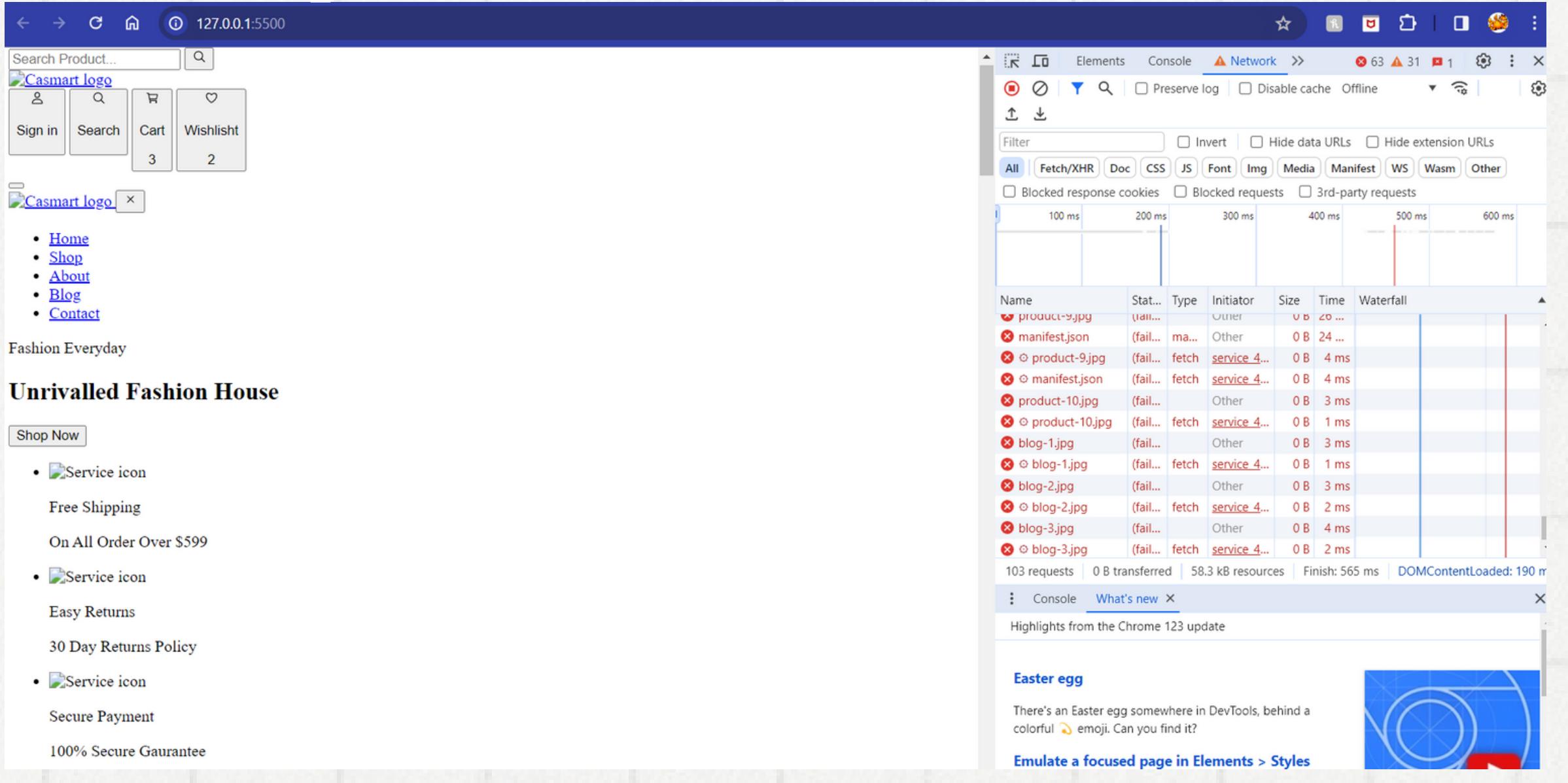


```
{ manifest.json M X  JS service.js  <> index.html M  JS service_2.js

{} manifest.json > ...
1  {
2      "name": "Casmart",
3      "short_name": "CSM",
4      "start_url": "index.html",
5      "display": "standalone",
6      "background_color": "#5900b3",
7      "theme_color": "black",
8      "scope": ".",
9      "description": "Casmart for shopping",
10     "icons": [
11         {
12             "src": "/assets/images/pwa_1_192.png",
13             "sizes": "192x192",
14             "type": "image/png",
15             "purpose": "maskable any"
16         },
17         {
18             "src": "/assets/images/pwa_1_512.png",
19             "sizes": "512x512",
20             "type": "image/png",
21             "purpose": "maskable any"
22         }
23     ]
24 }
25 |
```

Manifest.json
To set the icons and other
characteristics of the app

Implementation



The screenshot shows a web browser window with the URL `127.0.0.1:5500`. On the left, there's a navigation bar with a search bar, a logo, and user icons for sign in, search, cart (containing 3 items), and wishlist (containing 2 items). Below this is a sidebar with a logo and a menu list:

- Home
- Shop
- About
- Blog
- Contact

Below the sidebar, the main content area features the text "Fashion Everyday" and the heading "Unrivalled Fashion House". Underneath, there are several promotional sections with icons and text:

- Shop Now
- Service icon
- Free Shipping
- On All Order Over \$599
- Service icon
- Easy Returns
- 30 Day Returns Policy
- Service icon
- Secure Payment
- 100% Secure Gaurantee

On the right side of the browser window, the developer tools Network tab is open, showing a list of requests. The table has columns for Name, Status, Type, Initiator, Size, Time, and Waterfall. Most requests are failing (indicated by a red 'X').

Name	Status	Type	Initiator	Size	Time	Waterfall
product-9.jpg	(fail...)	Other	service 4...	0 B	20 ...	
manifest.json	(fail...)	ma...	Other	0 B	24 ...	
product-9.jpg	(fail...)	fetch	service 4...	0 B	4 ms	
manifest.json	(fail...)	fetch	service 4...	0 B	4 ms	
product-10.jpg	(fail...)	Other	service 4...	0 B	3 ms	
product-10.jpg	(fail...)	fetch	service 4...	0 B	1 ms	
blog-1.jpg	(fail...)	Other	service 4...	0 B	3 ms	
blog-1.jpg	(fail...)	fetch	service 4...	0 B	1 ms	
blog-2.jpg	(fail...)	Other	service 4...	0 B	3 ms	
blog-2.jpg	(fail...)	fetch	service 4...	0 B	2 ms	
blog-3.jpg	(fail...)	Other	service 4...	0 B	4 ms	
blog-3.jpg	(fail...)	fetch	service 4...	0 B	2 ms	

At the bottom of the Network tab, it says "103 requests | 0 B transferred | 58.3 kB resources | Finish: 565 ms | DOMContentLoaded: 190 ms". Below the Network tab, there are tabs for "Console" and "What's new". A blue banner at the bottom says "Easter egg" and "There's an Easter egg somewhere in DevTools, behind a colorful 🐚 emoji. Can you find it? Emulate a focused page in Elements > Styles".



Cache

To store certain aspects so as to make them available for offline utilisation

Implementation

127.0.0.1:5500

casmart

Sign in Cart (3) Wishlist (2)

Home Shop About Blog Contact

Fashion Everyday

Unrivalled Fashion House

Shop Now

Search Product...

Application

Source [service_3.js](#)
Received 3/30/2024, 2:19:06 PM

Status #1600 activated and is running [stop](#)

Clients [http://127.0.0.1:5500/index.html](#) [focus](#)
[http://127.0.0.1:5500/](#) [focus](#)

Push {"method": "pushMessage", "data": "Push notification sent"} [Push](#)

Sync syncMessage [Sync](#)

Periodic Sync test-tag-from-devto [Periodic Sync](#)

Update Cycle Version Update Activity Timeline

Console What's new Issues

Filter Default levels No Issues

Sync successful service_3.js:49
Push notification sent service_3.js:56
Sync successful service_3.js:49
Push notification sent service_3.js:56

new notification
Message pushed
127.0.0.1:5500



Push
Push event listener listens incoming push notifications

Implementation

Fashion Everyday

Unrivalled Fashion House

Shop Now

casnart

Sign in Cart (3) Wishlist (2)

Home Shop About Blog Contact

Source `service_3.js`
Received 3/30/2024, 2:19:06 PM
Status #1600 activated and is running STOP
Clients http://127.0.0.1:5500/index.html focus
Push {"method": "pushMessage", "data": "Sync successful"} Push
Sync syncMessage Sync
Periodic Sync test-tag-from-devto Periodic Sync
Update Cycle Version Update Activity Timeline

Console What's new Issues

Filter Default levels No Issues

- 176 messages
- 29 user messages
- 77 errors
- 70 warnings
- 29 info
- No verbose

sync successful service_3.js:49
Push notification sent service_3.js:56
Sync successful service_3.js:49
Push notification sent service_3.js:56
Sync successful service_3.js:49
Push notification sent service_3.js:56
Sync successful service_3.js:49
Sync successful service_3.js:49
Live reload enabled. (index):1217
Push notification sent service_3.js:56
Sync successful service_3.js:49
Push notification sent service_3.js:56

Sync
Keep data consistent between
server and client side

Implementation

The screenshot shows a web browser window with the Lighthouse audit tool open. The audit score is 99% (PWA). A message in the Lighthouse panel states: "Alongside Chrome's updated Installability Criteria, Lighthouse will be deprecating the PWA category in a future release. Please refer to the [updated PWA documentation](#) for future PWA testing." The Console tab shows 34 messages, including a fetch event triggered from service_4.js:39.

Search Product...

casmart

Sign in Cart Wishlist

Home Shop About Blog Contact

Fashion Everyday

Unrivalled Fashion House

[Shop Now](#)

Lighthouse

Lighthouse is a tool developed by Google to assess the performance and quality of web pages and web applications.

Conclusion

In summary, our presentation on Progressive Web Apps (PWAs) has shed light on their pivotal role in transforming the landscape of web development and user experiences. PWAs excel in accessibility, ensuring seamless access across various devices and platforms, thereby enhancing user reach and engagement. Their superior performance, characterized by fast loading times, smooth interactions, and offline functionality, sets them apart from traditional web applications.