

# FreshDeal

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## Introduction

FreshDeal is a mobile and web platform that connects local businesses with surplus food to budget-conscious consumers.

By enabling restaurants to sell unsold but edible food at reduced prices, it helps reduce waste, increase access to affordable meals, and promote sustainability aligning with UN SDGs 12, 13, and 17.

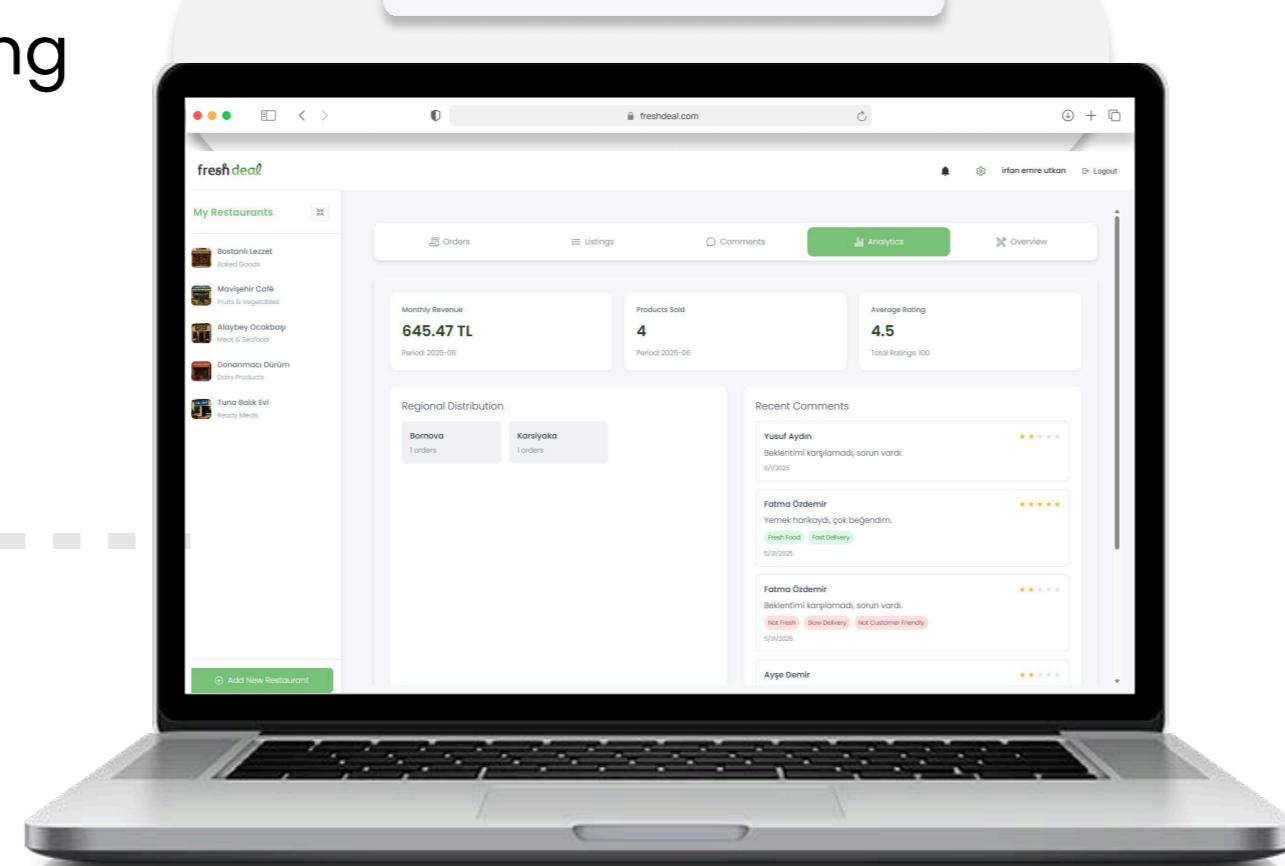
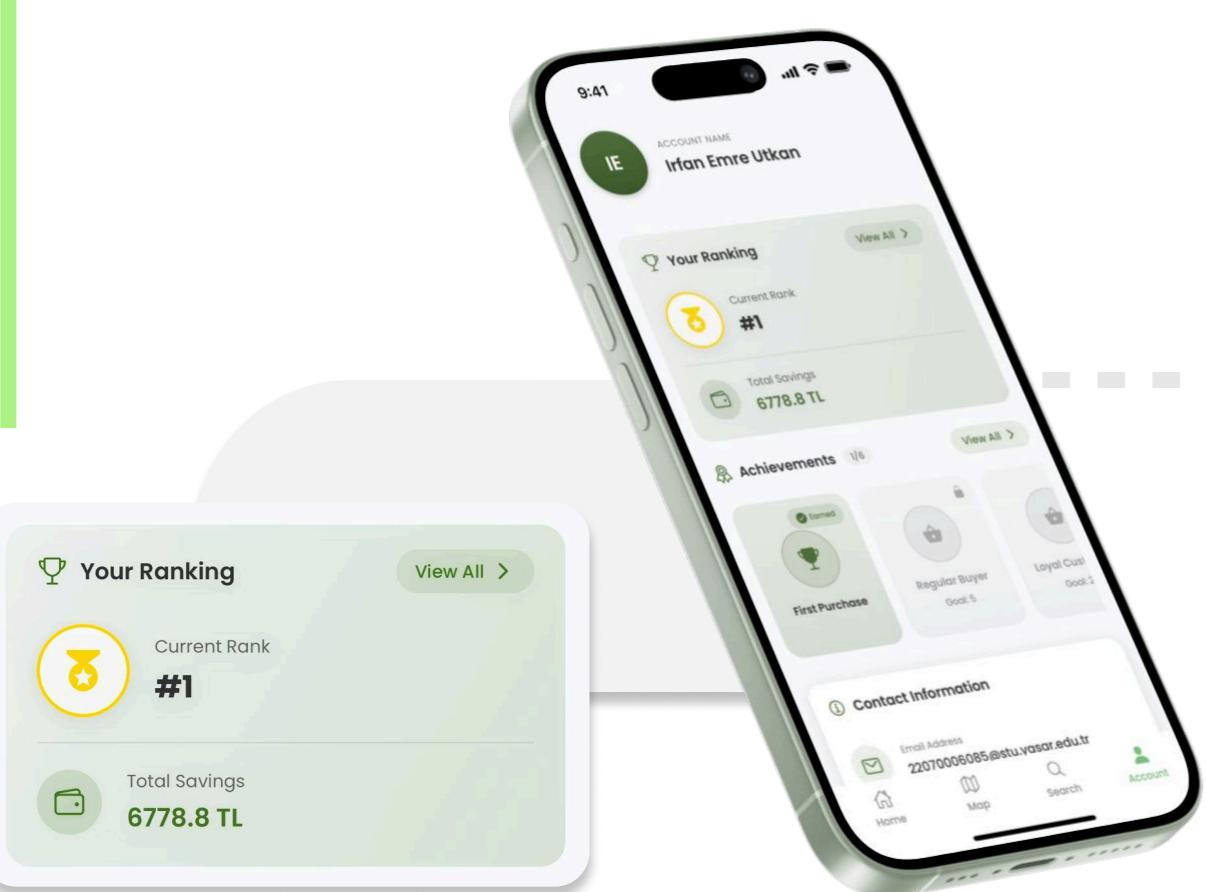
Minimizing food waste

Promoting conscious consumption



## Aim

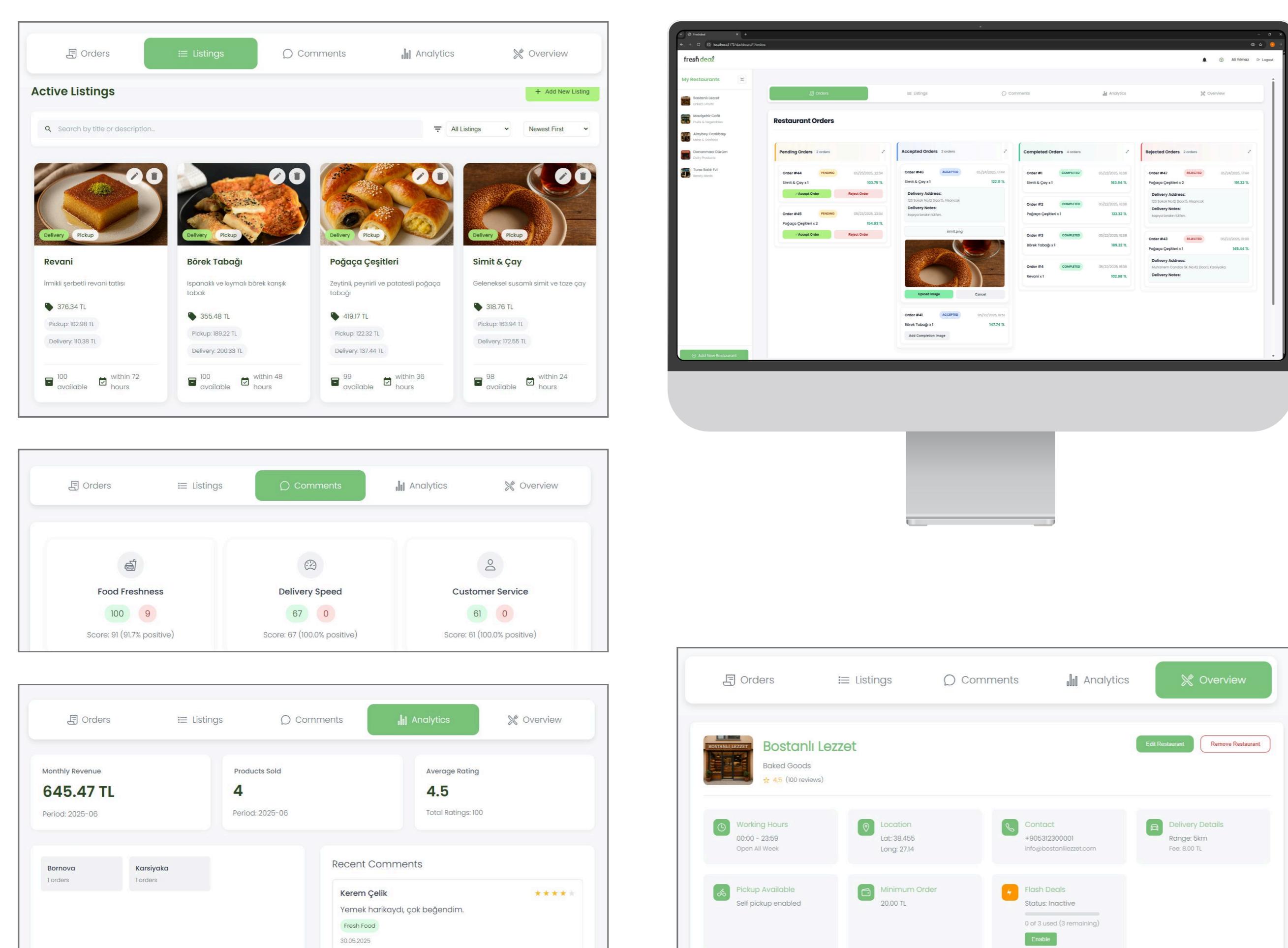
Building a user friendly app for discovering and buying discounted food, promoting sustainability through transparency, feedback, and gamification.



Providing a web platform for businesses to list surplus items, monitor performance, and support sustainability by reducing food waste.

## Website

The customer and business-facing websites are developed using React and hosted on Azure, which also powers our backend services built with Python and the Flask framework, along with an Azure SQL Database for data storage.



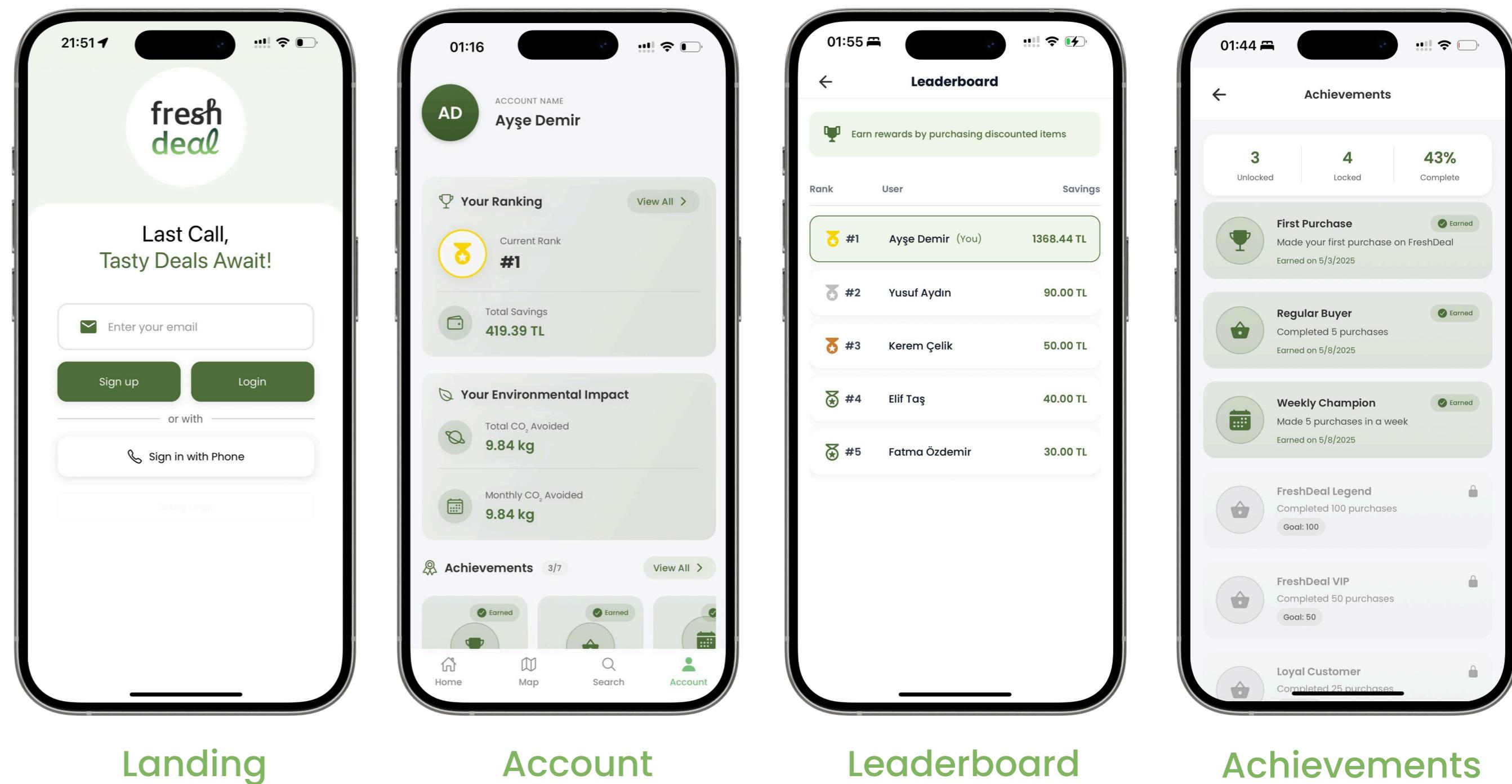
## Conclusion

FreshDeal successfully achieved its goal of creating a functional, cross-platform solution for reducing food waste. Users can now discover nearby surplus food deals, and restaurants can easily list excess items and manage offers.

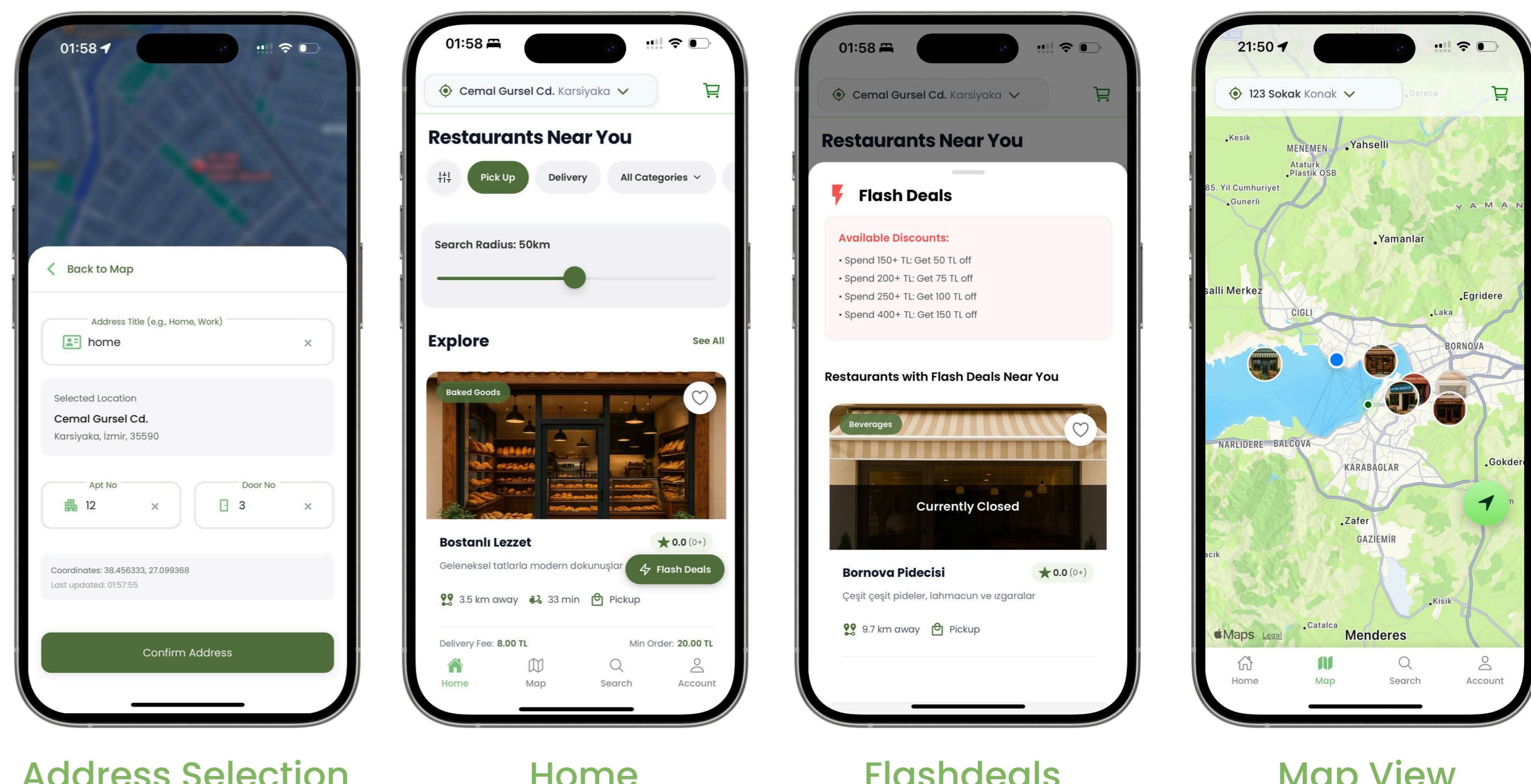
Next, we plan to integrate real delivery services, improve ML-based personalization, and implement third-party payment systems to enhance real world usability.

## Implementation

The platform is built on a modern, scalable tech stack. The mobile app is developed using React Native with Expo, and is available as an APK for Android and via TestFlight for iOS.



We use Firebase Storage for image handling, and the Google Maps API provides location-based functionality.



GROQ API is integrated for analyzing user comments, and our custom machine learning algorithm powers personalized restaurant recommendations.

