

# **Project Proposal**

## **Smart-Shopping**

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## **Abstract**

Smart-Shopping, the innovative mobile application, is poised to revolutionize the retail industry. It will soon be available for download on the Google Play and App Store platforms. In today's fast-paced digital landscape, store owners face an increasingly complex challenge in managing their businesses effectively. Recognizing this pressing need, 'Smart-Shopping' steps in as an efficient and user-friendly tool that empowers store owners to regain control and thrive in the digital retail world.

One of the core objectives of 'Smart-Shopping' is to streamline the store management process, eliminating the complexities that often overwhelm business owners. Through this application, store owners can effortlessly add, update, or modify essential information related to their stores. This newfound capability promises to enhance their online presence, making their stores more accessible to the growing base of tech-savvy consumers. At the heart of this innovation is an unwavering commitment to improving the overall shopping experience for users.

In a testament to its inclusivity and broad appeal, 'Smart-Shopping' will be available in both English and Turkish, catering to a diverse and multicultural audience. This multilingual approach ensures that a wide array of users can benefit from its features, contributing to its mission of making store management accessible to all.

## **Key Points**

1. **Efficient Store Management:** The app empowers store owners to streamline the process of adding and editing store-related information, enhancing their online presence and customer engagement.
2. **Enhanced Online Presence:** "Smart-Shopping" improves the visibility of stores, benefiting both store owners and shoppers by making stores more accessible in the digital landscape.
3. **User-Centric Shopping Experience:** Store owners can easily communicate with their customers, providing up-to-date information and timely notifications about discounts and promotions.
4. **Multilingual Accessibility:** The application is available in both English and Turkish, promoting inclusivity and catering to a diverse user base.
5. **Key Features:** Account creation, store management, notification sending, discount management, and a seamless login process ensure a robust and user-friendly application.

By focusing on these key features and user-centric design, "Smart-Shopping" aims to simplify store management, improve customer engagement, and contribute to the growth of businesses in the retail sector.

## **Technologies**

### **Front-End Development:**

1. Framework: Flutter (Dart).
2. Flutter is an excellent choice for building cross-platform mobile applications. It allows you to create a single codebase that works on both iOS and Android.

### **Back-End Development:**

1. Framework: Node.js.
2. Node.js is well-suited for building scalable, real-time applications. It's a great choice for the server-side of your app.

### **Version Control:**

1. Bitbucket
2. Bitbucket provides version control, source code management, and collaboration features, allowing your team to manage code effectively.

### **Project Management:**

1. Jira is used for task tracking, issue management, and project management, ensuring a well-organized workflow.

### **Database:**

1. MySQL.
2. MySQL is a reliable and widely used relational database management system that can handle the data storage needs of your application.

### **API Documentation:**

1. Swagger
2. Swagger provides a powerful framework for API development and documentation. It will help you create well-documented and easily consumable APIs.

# Timeline

## Front-End Development

1. Front-End Development Kick-off
  - a. Set up the Flutter environment.
  - b. Start implementing the user interface based on existing design.
2. Front-End Development
  - a. Continue developing the front end, connecting it to the back end.

## Back-End Development, API Documentation, Testing, and Deployment

1. Back-End Development
  - a. Set up the Node.js environment.
  - b. Develop the back-end, including user authentication, API endpoints, and database integration.
2. API Documentation with Swagger
  - a. Create detailed documentation for all API endpoints using Swagger.
3. Integration and Testing
  - a. Integrate the front end with the back end.
  - b. Test the application thoroughly, including functional and usability testing.
4. Final Testing and Optimization
  - a. Perform final testing, bug fixes, and performance optimization.
  - b. Prepare the application for deployment.

## **Roles**

### **Ibraheem (Front-End Development):**

1. Primarily responsible for front-end development using Flutter and Dart.
2. Tasks include designing and implementing the user interface.
3. Ensures a user-friendly and visually appealing front-end in line with the existing design.
4. Collaborates with Ribhi on integrating the front-end with the back end. Also, contributes to code version control using Bitbucket for code upload.

### **Ribhi (Back-End Development and APIs):**

1. Primarily responsible for back-end development and API implementation using Node.js.
2. Tasks involve setting up the server-side of the application and creating APIs.
3. Manages the connection between the front end and the database, ensuring data integrity.
4. Works on API documentation using Swagger.
5. Collaborates with Ibraheem in integrating the front-end with the back end. Also, contributes to code version control using Bitbucket for code upload.

Both Ibraheem and Ribhi actively support and collaborate with each other at all stages of the project, ensuring a holistic approach to development. Additionally, they utilize Bitbucket for code version control, enabling seamless code upload, collaboration, and tracking of code changes throughout the project. This collaborative and organized approach will enhance the efficiency and quality of the "Smart-Shopping" application development.

# Pages

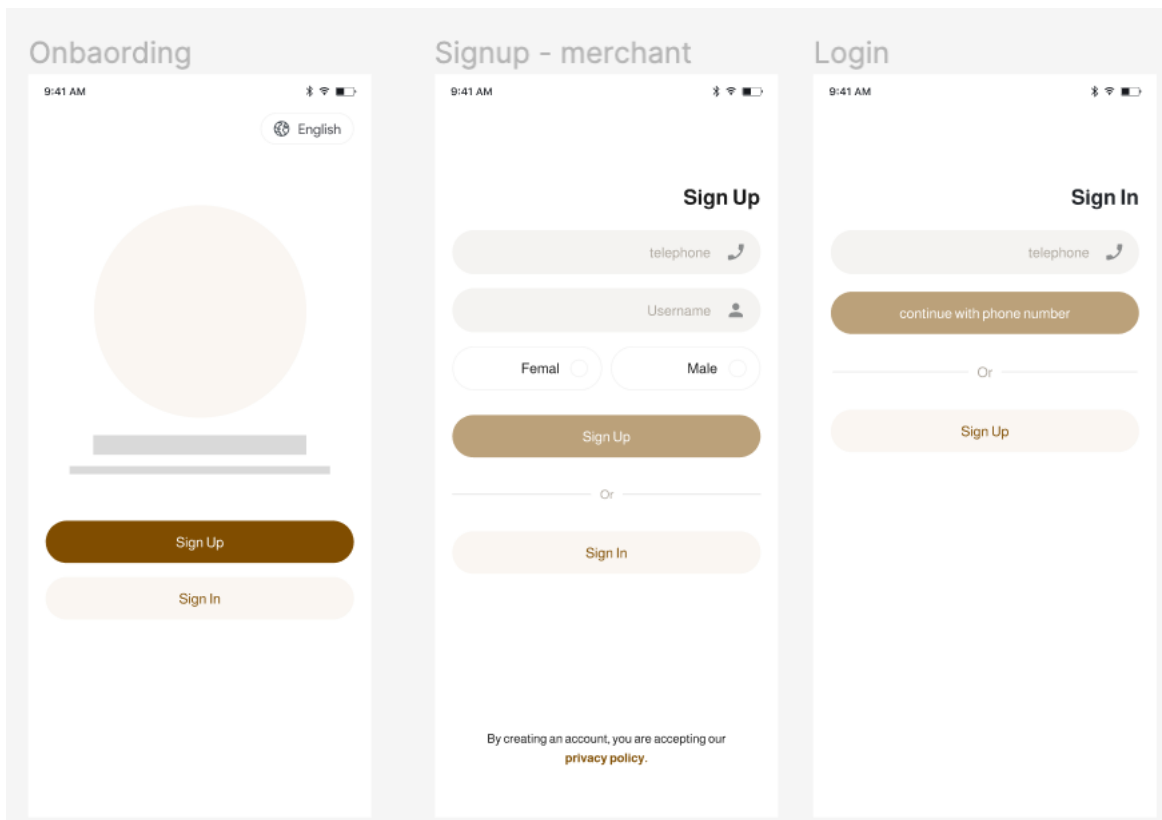
## 1. First Page: Account Creation

On this page, store owners create an account by entering the following information:

- Phone number
- Name (visible to users)
- Gender

## 2. Second Page: Login

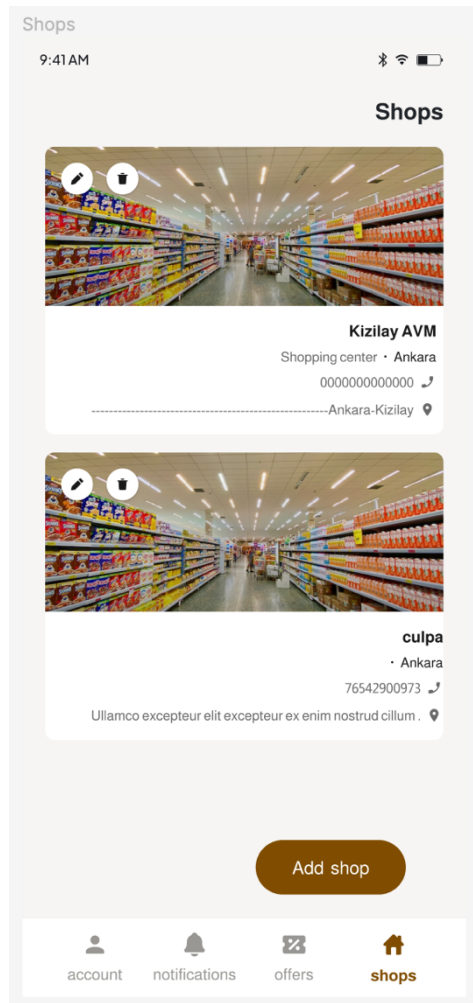
On this page, visitors can log in with their registered phone numbers, and a login confirmation code is sent to their mobile phones. After the login process is completed, the user's session is opened in the application.



### 3. Third Page: Home Page for Stores

This page provides a list for store owners to edit their own stores or create a new store. Users can perform the following actions on this page:

- Add a new store
- Edit an existing store
- Delete an existing store
- Log out



Shops Main Screen



## **4.Fourth Page: Store Creation**

On this page, visitors create a store by entering the following information:

- Store name (in Turkish)
- Store name (in English)
- Selection of one or more categories
- Limited selection of keywords
- Commercial registration number
- City
- Working days/hours
- Location
- Address(es) if there are multiple branches
- Facebook link
- Store image
- Instagram link
- TikTok link
- Contact number
- Contact name

## **5.Fifth Page: Store Editing**

On this page, visitors can edit all the information about the store.

Cont.

### Add - shop

9:41 AM

Add New Shop →

Shop information

Shop name in Turkish

Shop name in English

Commercial number

Branch name

Add new branch

< Categories

< City

< Time

Contact Information

Telephone number

Contact name

Social Media

Facebook page

Instagram page

TikTok page

Tag words

Add

tag word

Shop Image

Add picture +

Save

### Cities

Choose City

Search For City

✓

Ankara

Istanbul

Mersin

Adana

Izmir

Antalya

Kayseri

Hatay

### Time

Working Time

00.3000.30

01.0001.00

01.3001.30

Save

### Maps

9:41 AM

San Marco

Galleria dell'Accademia

Palazzo Medici Riccardi

Santa Maria del Fiore

Marini

Palazzo Davanzati

Palazzo Vecchio

Ponte Vecchio

Fiume

Branch Name

Display name

Save

### Frame

Add

tag word

### Categories

Choose Category

ابحث عن المدينة

Restaurent ✓

Clothes Shop

Mall

Fast Food ✓

### Edit- shop

9:41 AM

Edit Shop →

Shop information

Shop name in Turkish

Shop name in English

Commercial number

Ankara shop

Add new branch

< Categories

< City

< Time

Contact Information

Telephone number

Contact name

Social Media

Facebook page

Instagram page

TikTok page

Tag words

Kids X

Women's clothing X

Clothes X

Shop Image

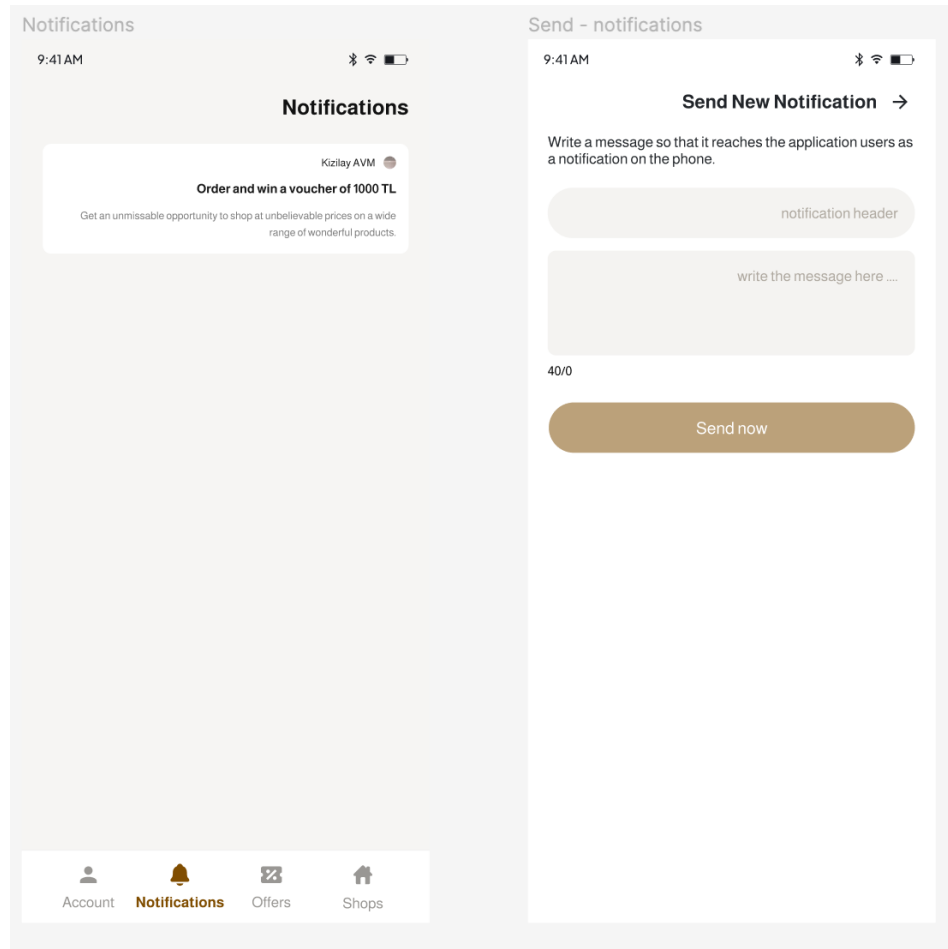
Add image +

Save

## 6.Sixth Page: Sending Notifications

On this page, a seller can write a message with a specific character limit to send notifications to users' phones. When the send message button is pressed, this notification will be sent to the administrator, and when approved by the administrator, it will be delivered to all application users. Notification sending details include:

- Sender's name
- Message details



## **7. Seventh Page: Home Page for Offers**

This page provides a list for users to edit their own offers or create new offers. When the offer's period expires, it will no longer be displayed.

Users can perform the following actions on this page:

- Add a new offer
- Edit an existing offer
- Determine the offer status (expired or ongoing)
- Delete an existing offer

## **8. Eighth Page: Creating Offers**

On this page, visitors create a new offer by entering the following information:

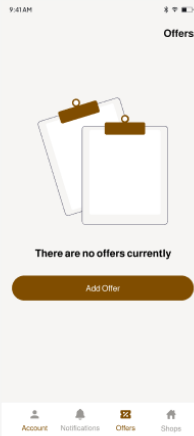
- offer name
- offer image
- offer description
- offer start date
- offer end date

## **9. Ninth Page: Editing Offers**

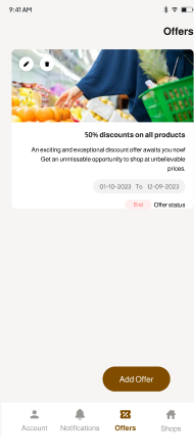
On this page, visitors can edit all offer information, and it's not possible to edit the offer after it has expired.

# Cont.

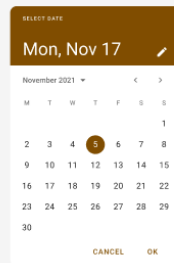
## Offers - empty



## Offers



## Date



## Add-Offer

A mobile app screen titled "Add Offer" for adding a new offer. The status bar shows 9:41 AM. The header "Add Offer" is at the top. The form includes fields for "Offer Name", "Offer Start Date", "Offer End Date", and "Offer Description". Below the description field, there's an "Add image +" button. At the bottom, there's a brown button labeled "Add Offer".

## Edit-Offer

A mobile app screen titled "Edit Offer" for editing an existing offer. The status bar shows 9:41 AM. The header "Edit Offer" is at the top. The form includes fields for "Offer Name", "Offer Start Date", "Offer End Date", and "Offer Description". Below the description field, there's an "Add image +" button. At the bottom, there's a brown button labeled "Edit Offer".

## 10. Tenth Page: Account Page

This section is designed to give you full control over your user profile and access to important features. Explore the following options to manage your account and enhance your app experience:

- a. Edit User Profile.
- b. Change App Language.
- c. View About Us.
- d. Privacy Policy.
- e. User Guides.
- f. Contact Us.
- g. Delete Account.
- h. Sign Out.

