

TikTek Mobile App



A mobile app for buying event tickets and ordering from the theater cafeteria, offering an immersive experience for customers.

Index



1ST

App Architecture, Database and Navigation Map

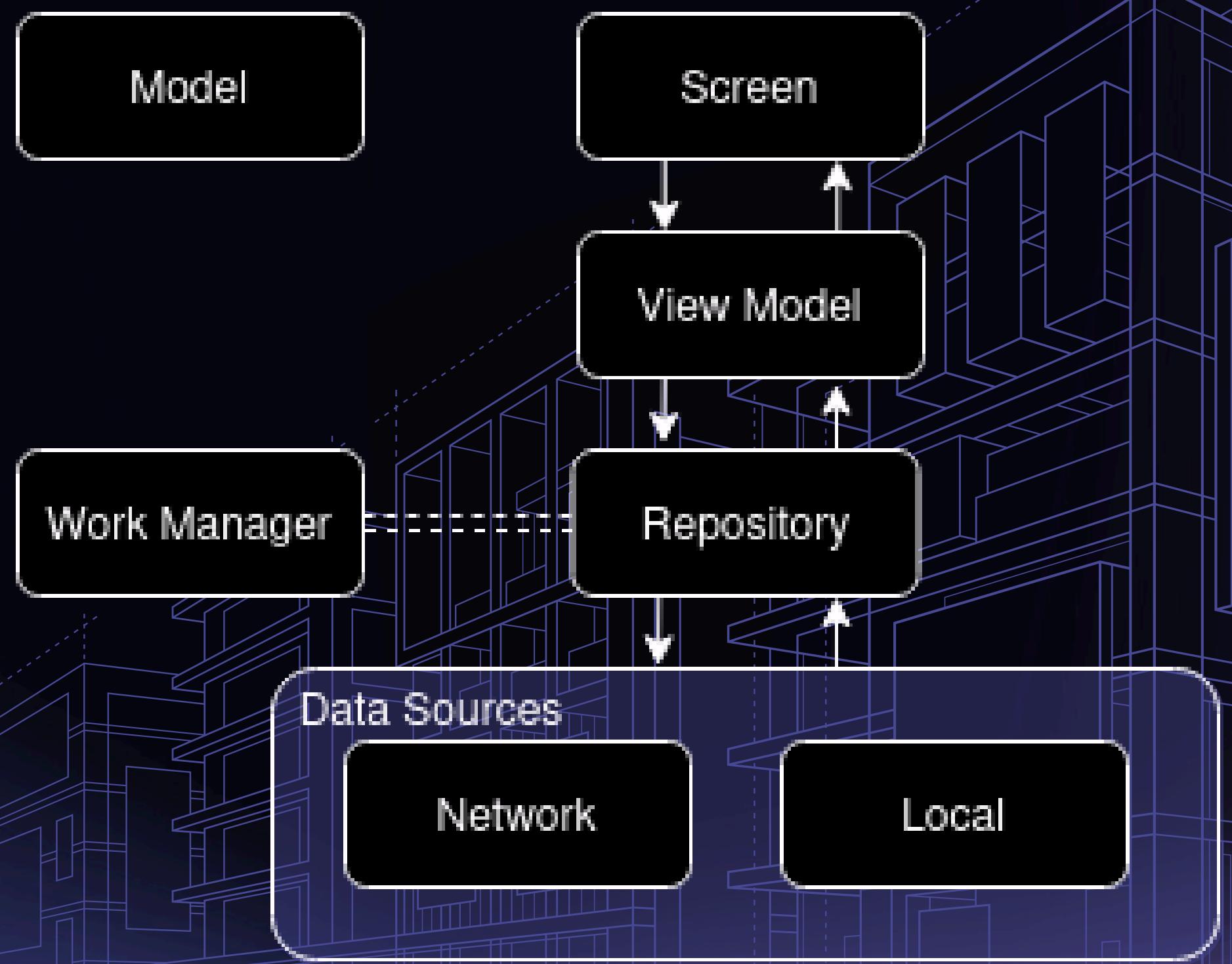
2ND

Features

3RD

Challenges

TikTek Architecture



Data Schemas - Server Database (1/2)

CAFETERIA ITEM



ID*
Name
Price
Image Url

String
String
Integer
String

ORDER



OrderItems (Order, Item, Quantity)
ID*
Date

String
Date

VOUCHER



ID*
Discount Integer (Nullable)
Item Item (Nullable)
User User
Order Order (Nullable)

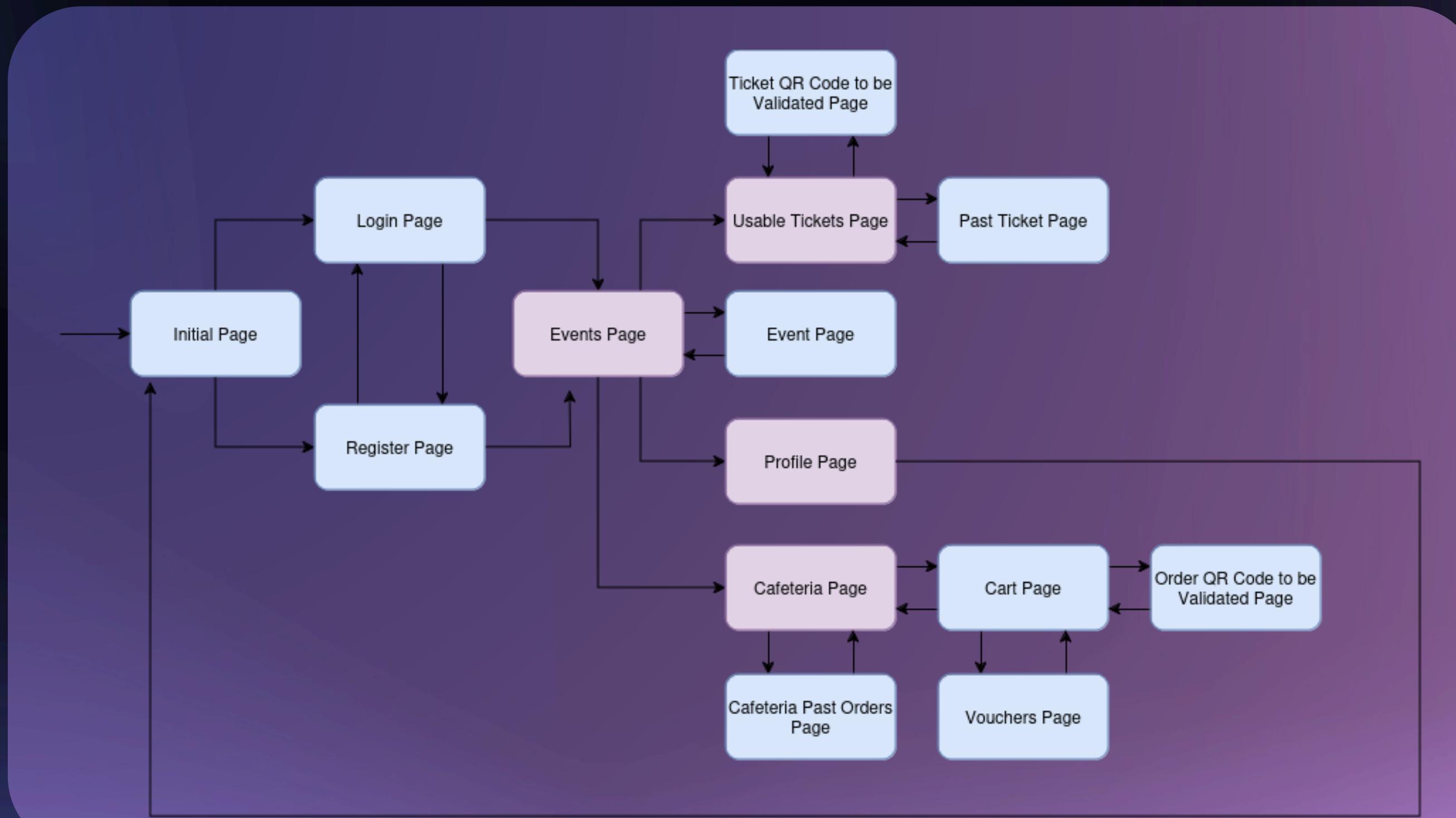
Data Schemas - Server Database (2/2)

EVENT	
ID*	String
Name	String
Description	String
Date	Date
Start Time	Time
End Time	Time
Location	String
Location Details	String (Nullable)
Price	Integer
ImageUrl	String

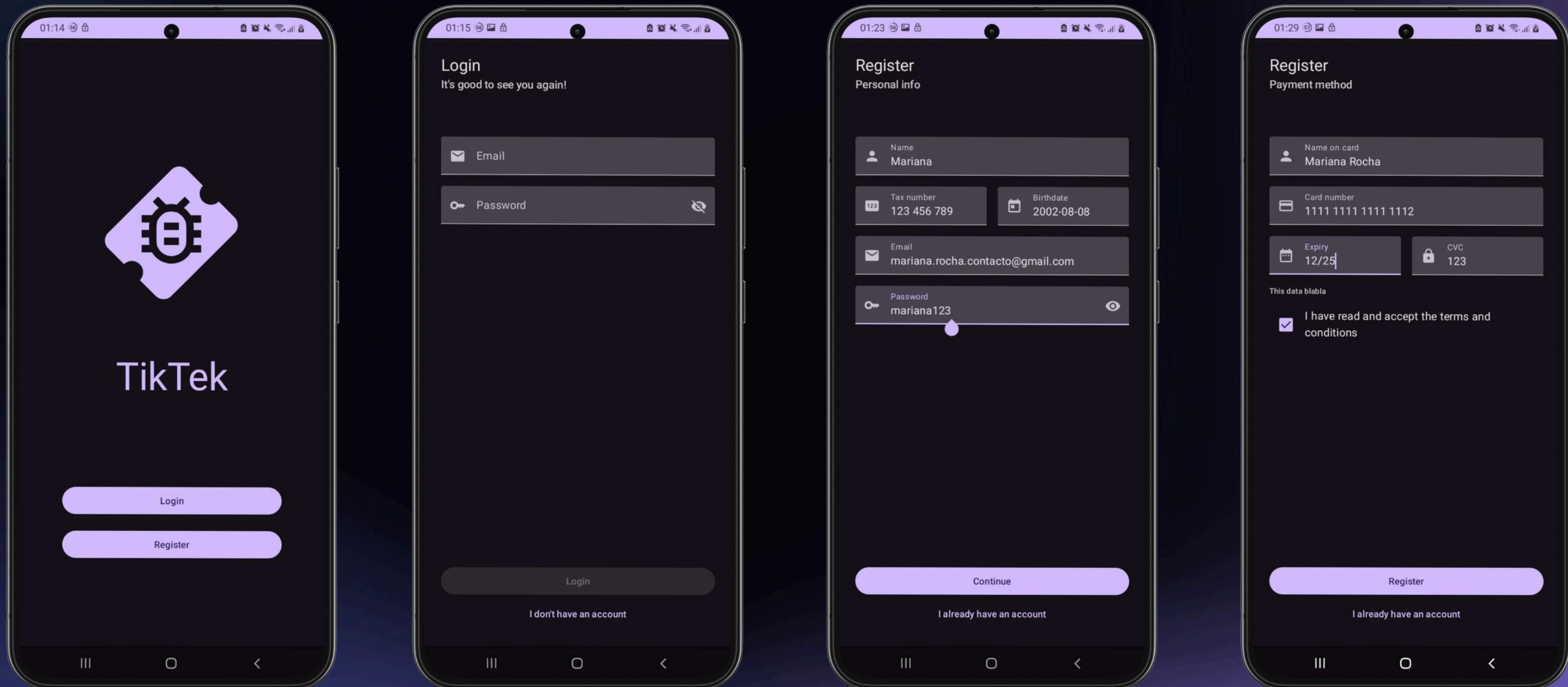
TICKET	
ID*	String
Event	Event
User	User
Seat	Seat
Purchase Date	Date
Use Date	Date (Nullable)

USER	
ID*	String
Name	String
NIF	String
Birthdate	Date
E-mail	String
Name CC	String
Number CC	String
Expiration Date CC	String
Password	String

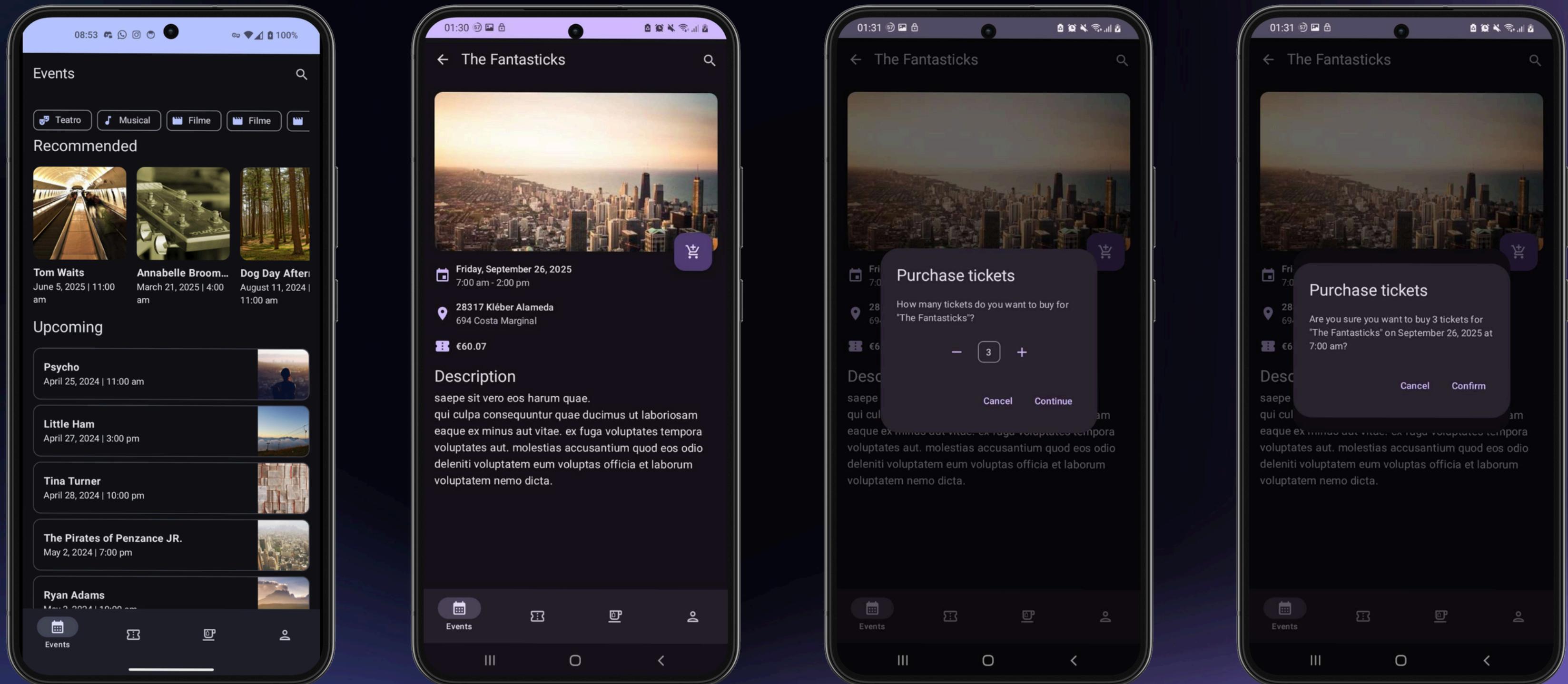
Navigation Map



Features - Authentication



Features - Events (1/3)



Features - Events (2/3)

The image displays three mobile phone screens illustrating the features of an event ticketing application.

Left Screen: Event Details

- Header: "The Fantasticks"
- Image: Aerial view of a city skyline at sunset.
- Date: Friday, September 26, 2025
- Time: 7:00 am - 2:00 pm
- Location: 28317 Kléber Alameda, 694 Costa Marginal
- Price: €60.07
- Description:

saepe sit vero eos harum quae.
qui culpa consequuntur quae ducimus ut laboriosam
eaque ex minus aut vitae. ex fuga voluptates tempora
voluptates aut. molestias accusantium quod eos odio
deleniti voluptatem eum voluptas officia et laborum
voluptatem nemo dicta.
- Bottom: "Purchase successful!"

Middle Screen: My tickets - Available

- Header: "My tickets"
- Filter: Available (selected)
- Items:
 - Captain Stirrick: Seat 1 | Available until 2025-07-15
 - The Fantasticks: Seat 1 | Available until 2025-09-26
 - The Fantasticks: Seat 3 | Available until 2025-09-26
 - The Fantasticks: Seat 4 | Available until 2025-09-26
 - The Fantasticks: Seat 5 | Available until 2025-09-26
 - Tom Waits: Seat 1 | Available until 2025-06-05

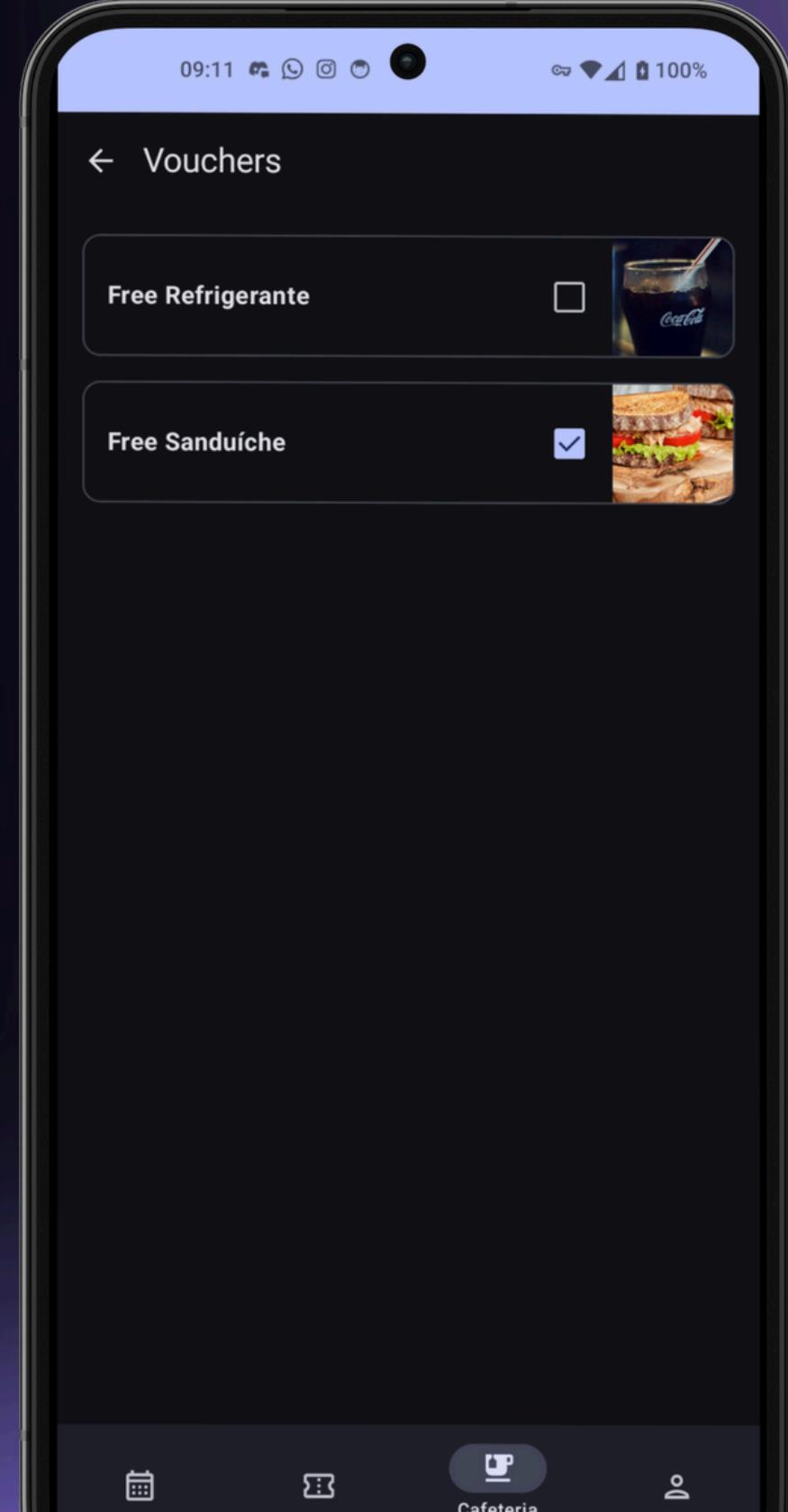
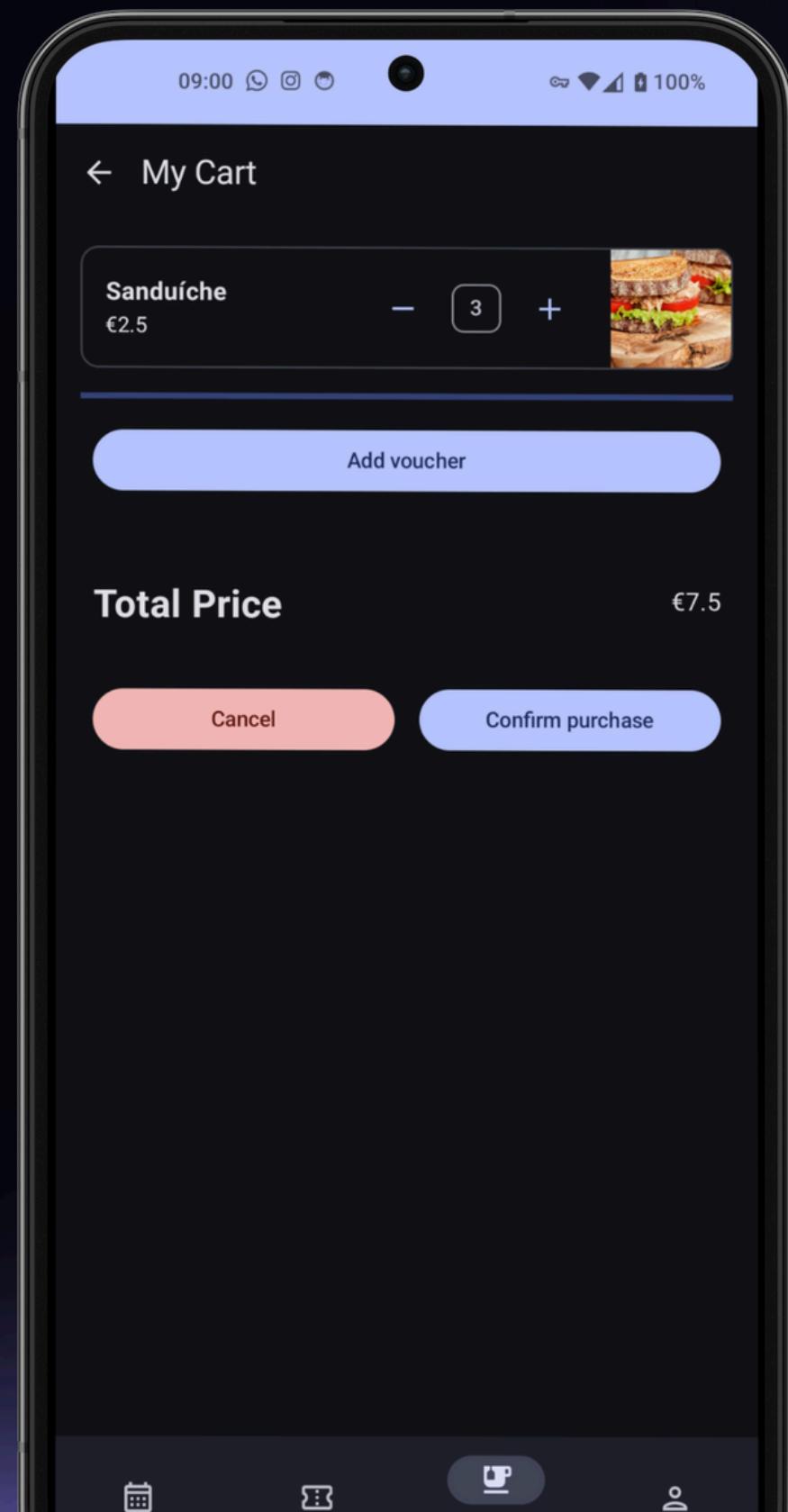
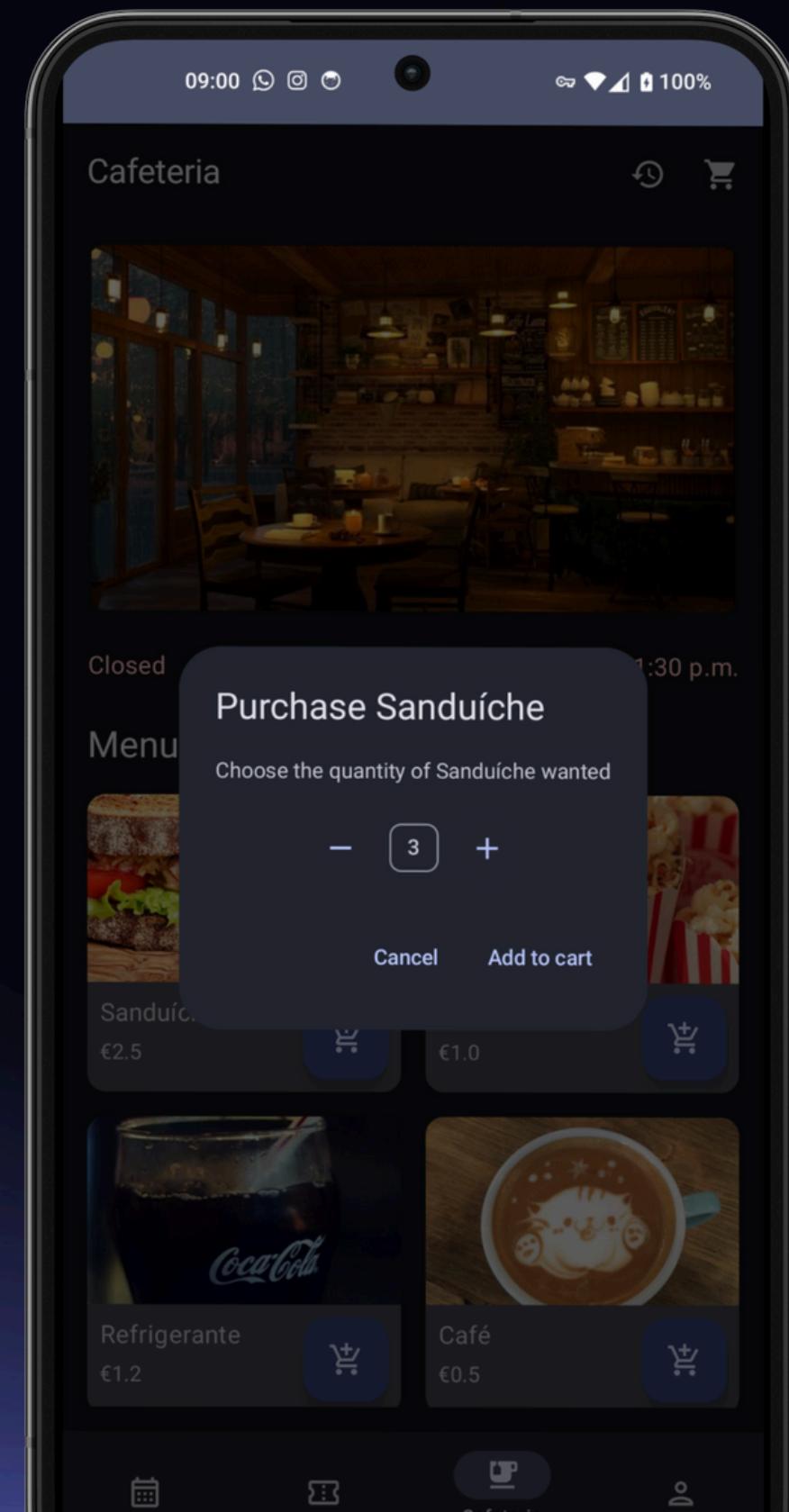
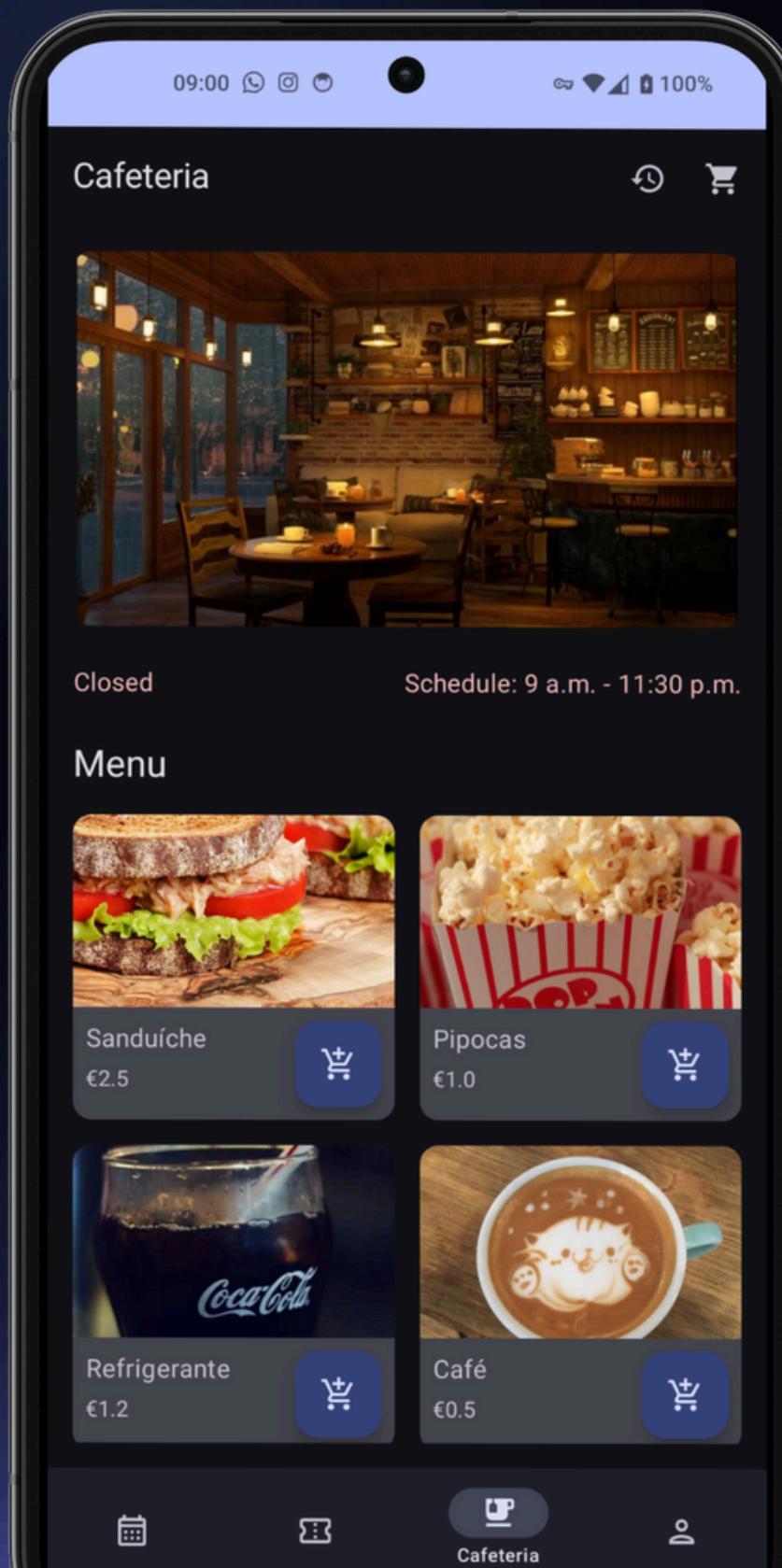
Right Screen: My tickets - Used

- Header: "My tickets"
- Filter: Used (selected)
- Items:
 - The Fantasticks: Seat 2 | Used on 2024-04-24T06:59:40.453937300Z

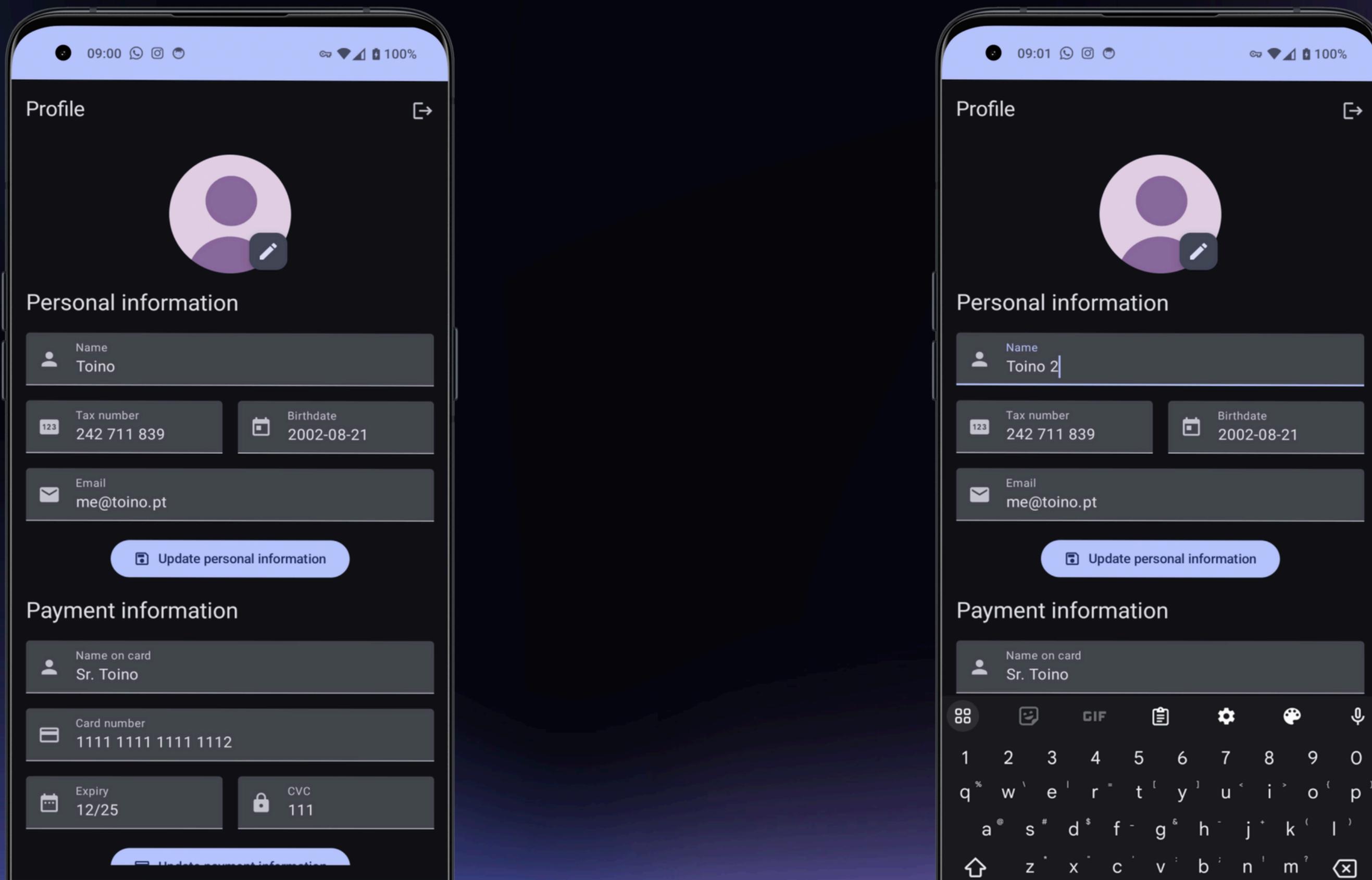
Features - Events (3/3)



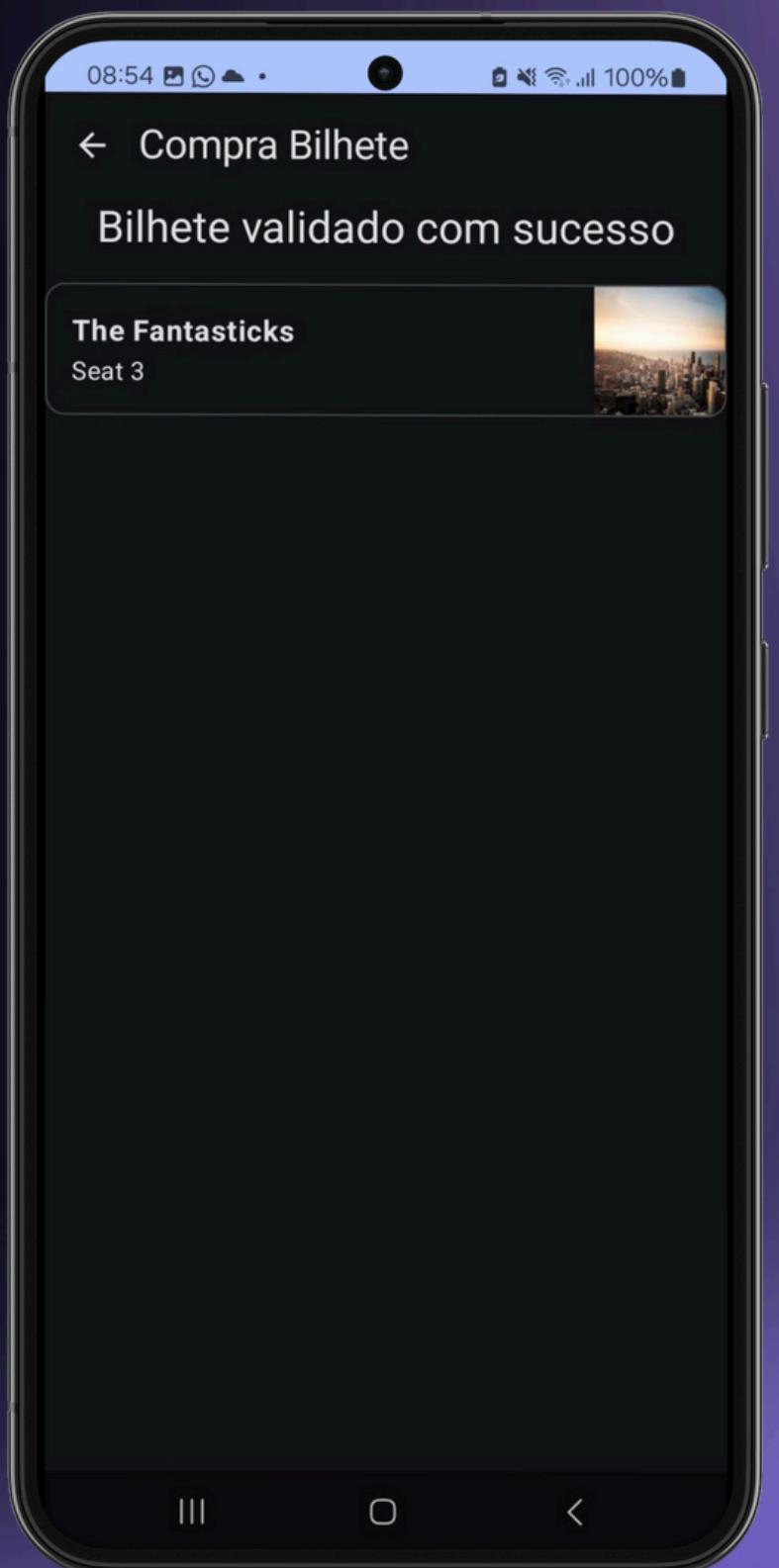
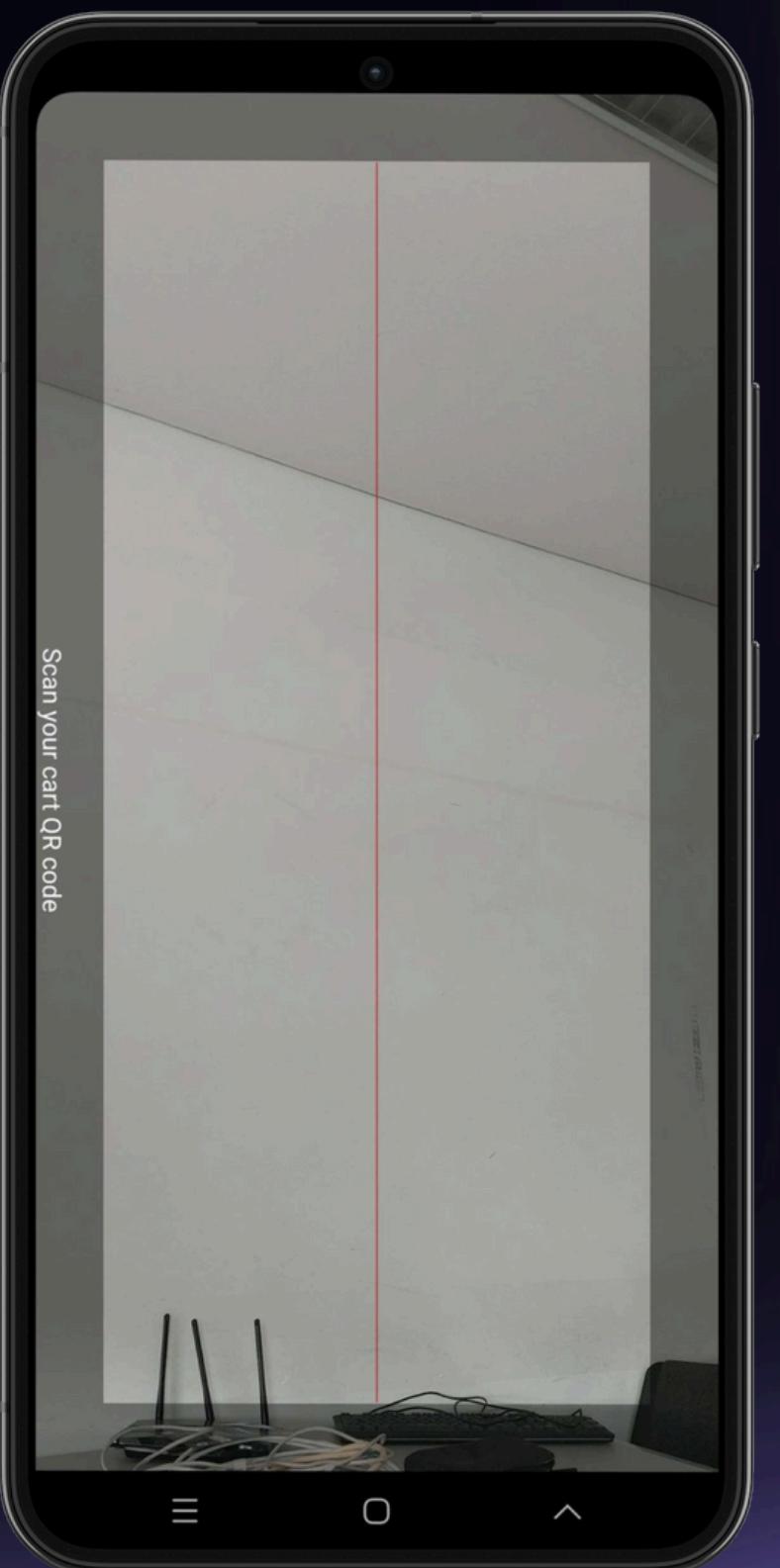
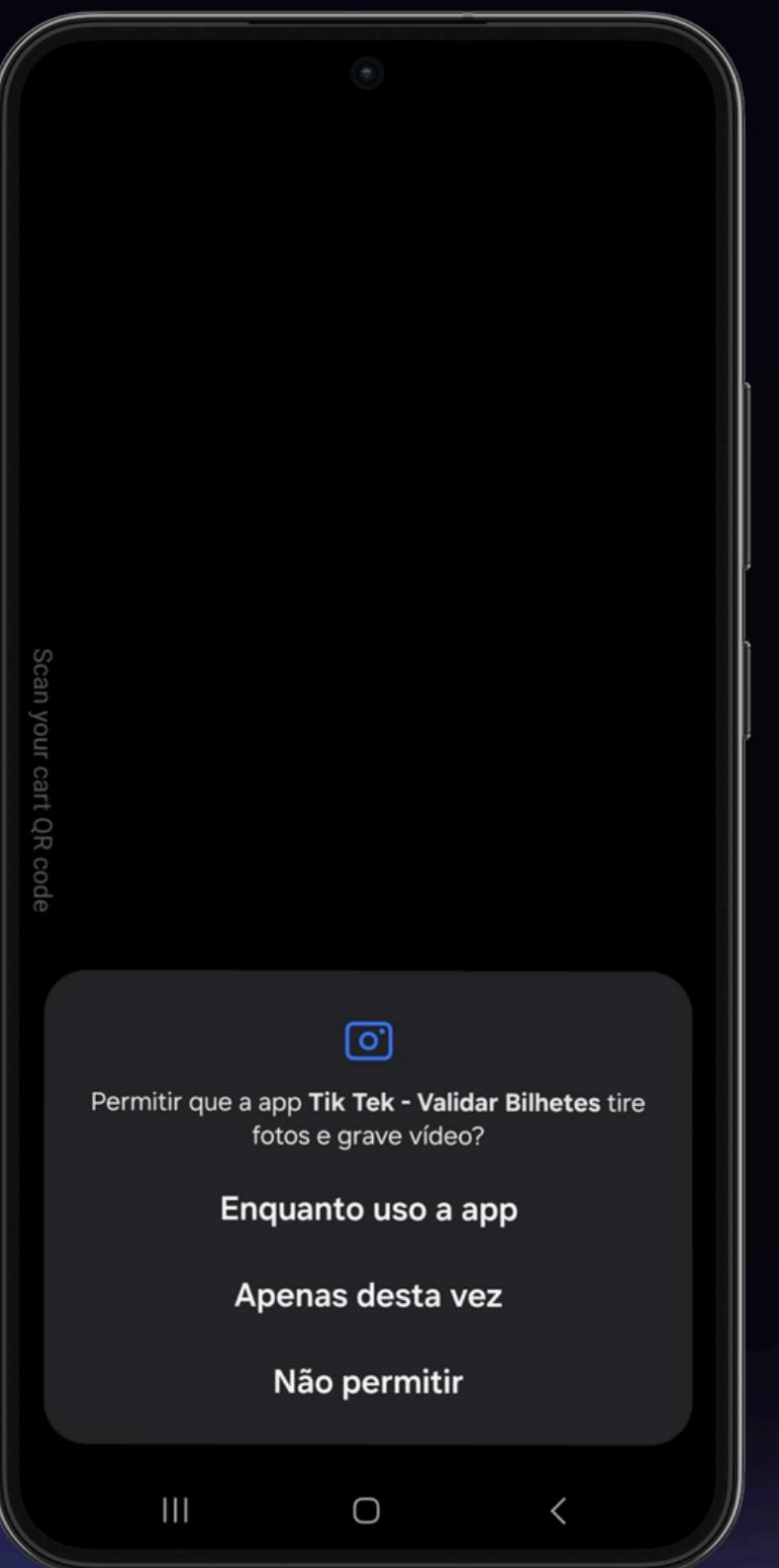
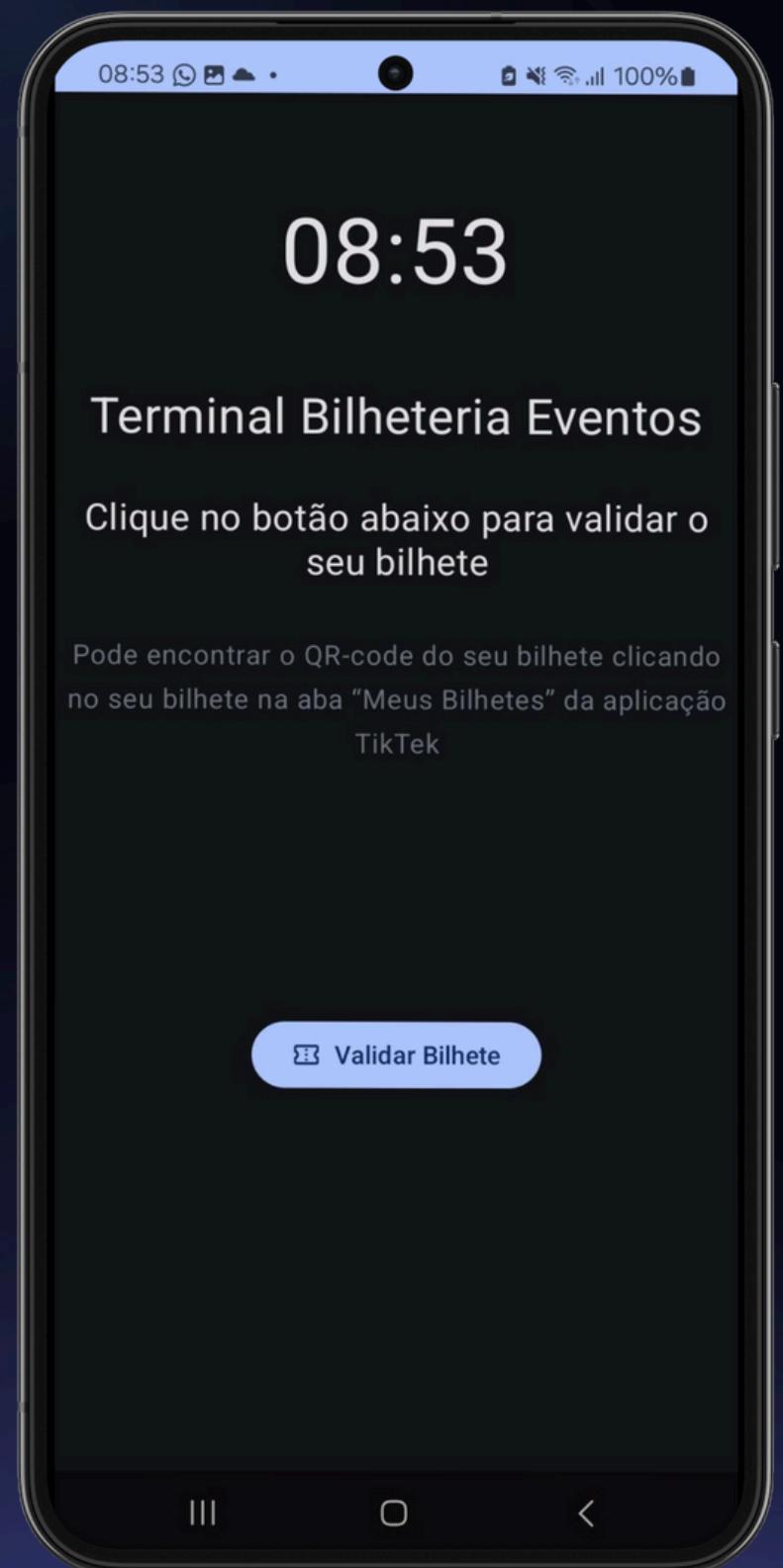
Features - Cafeteria



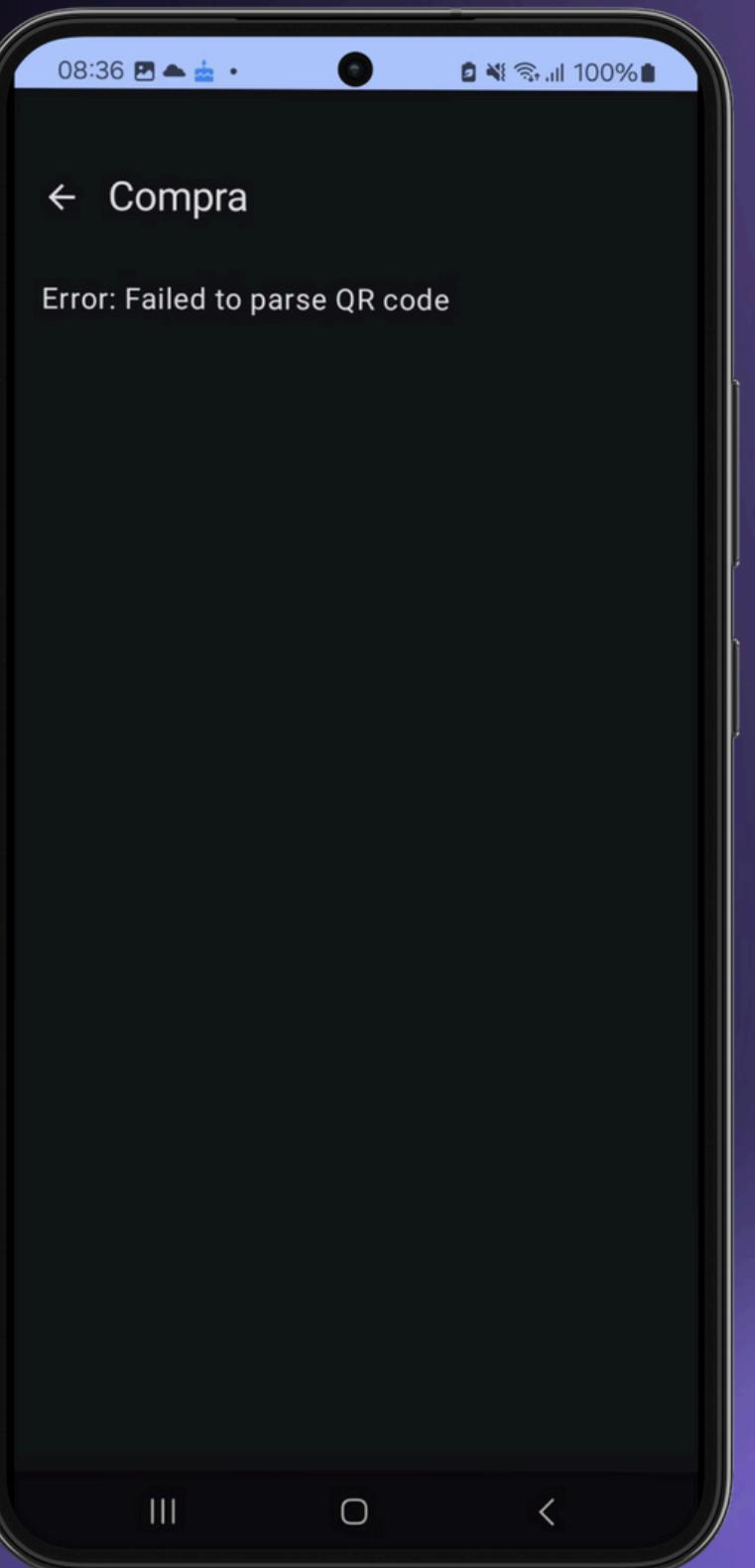
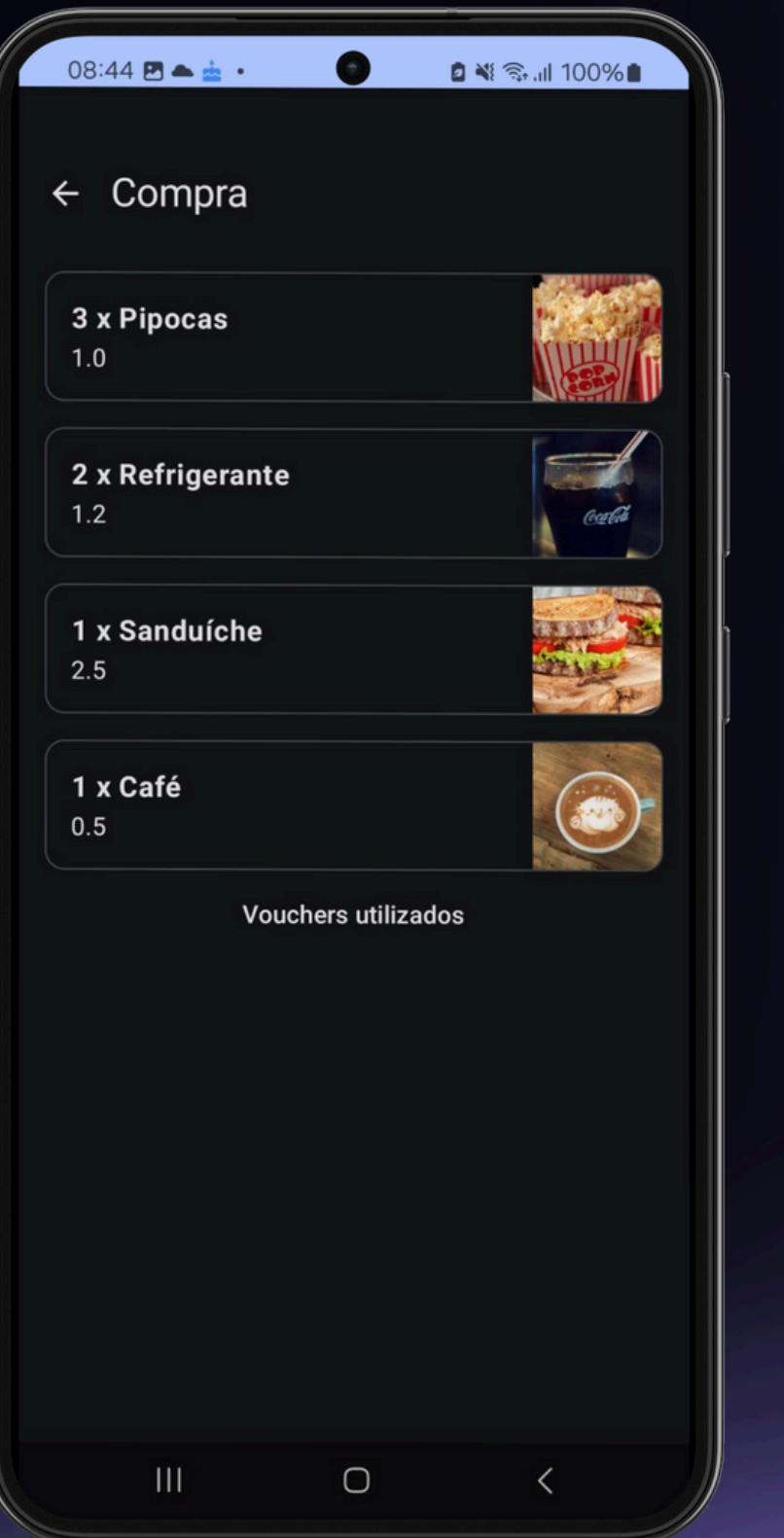
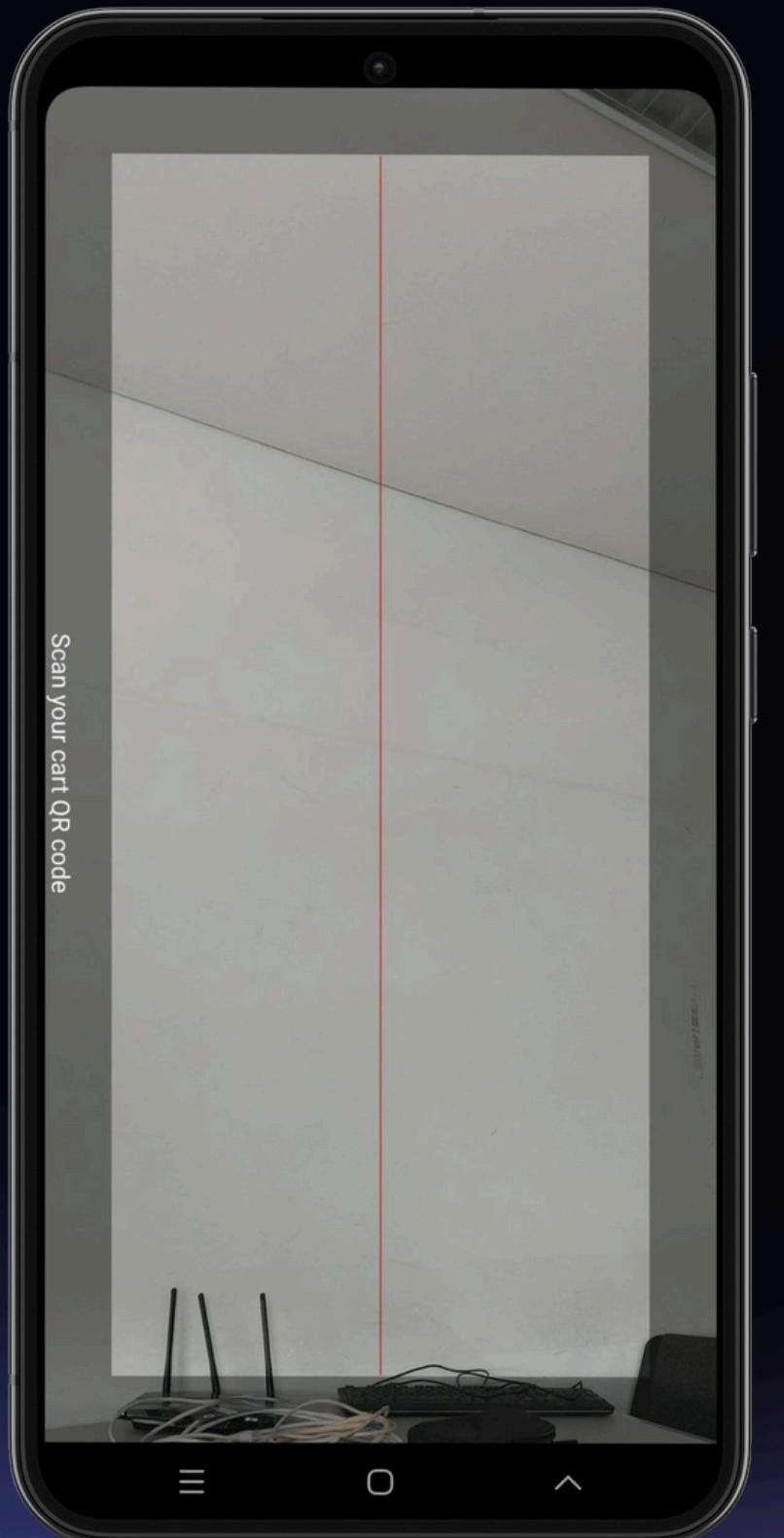
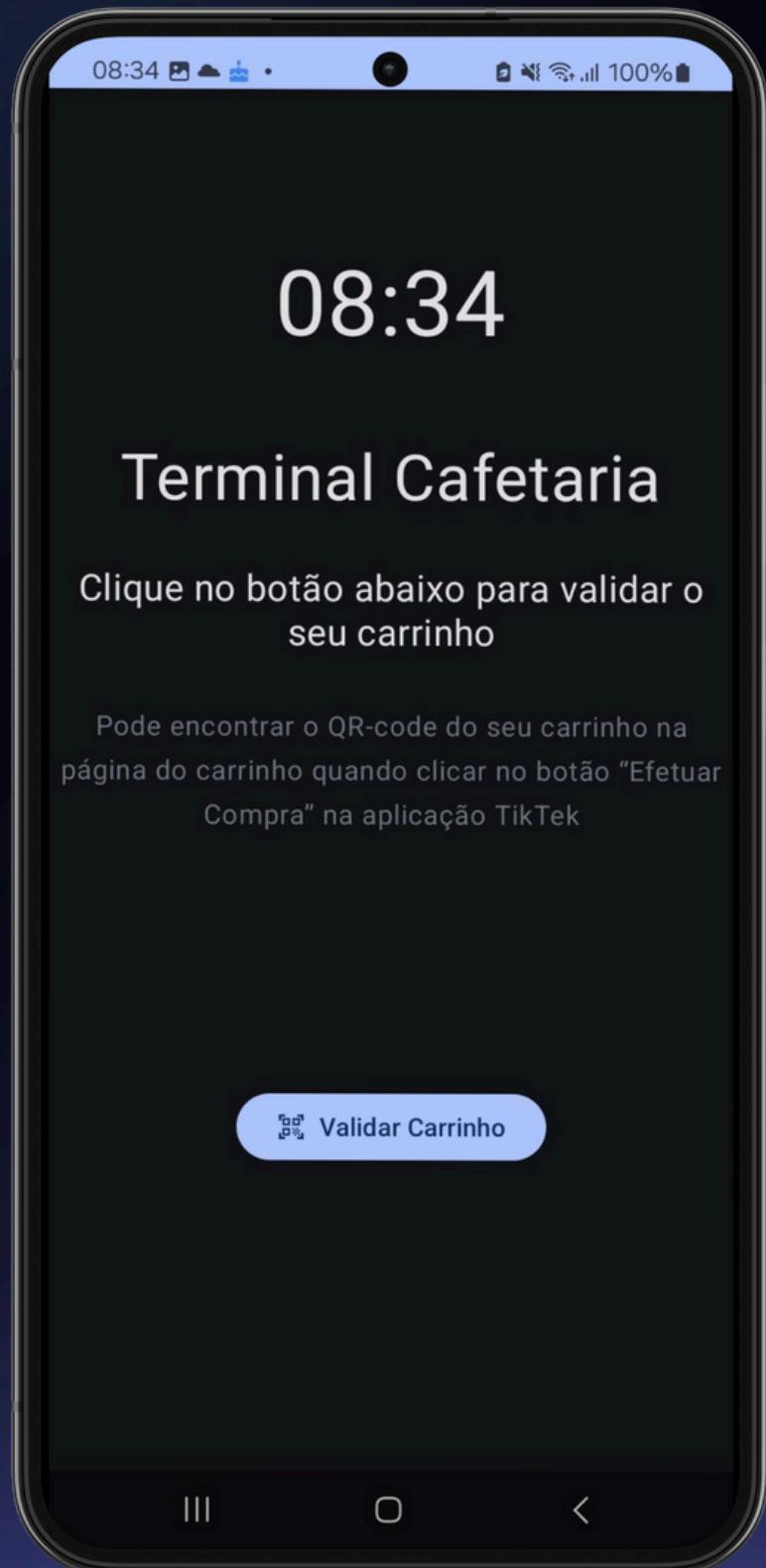
Features - Profile Edition



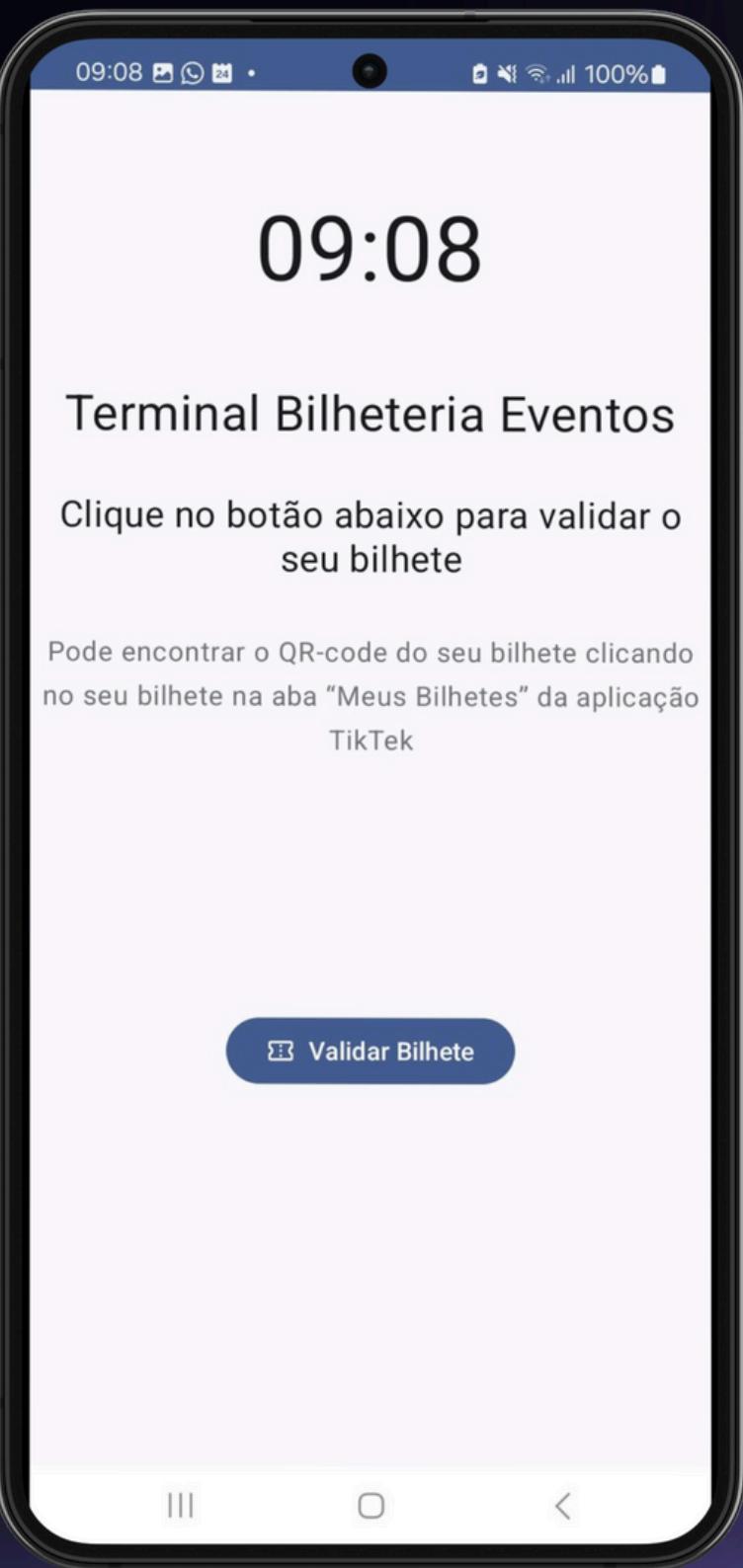
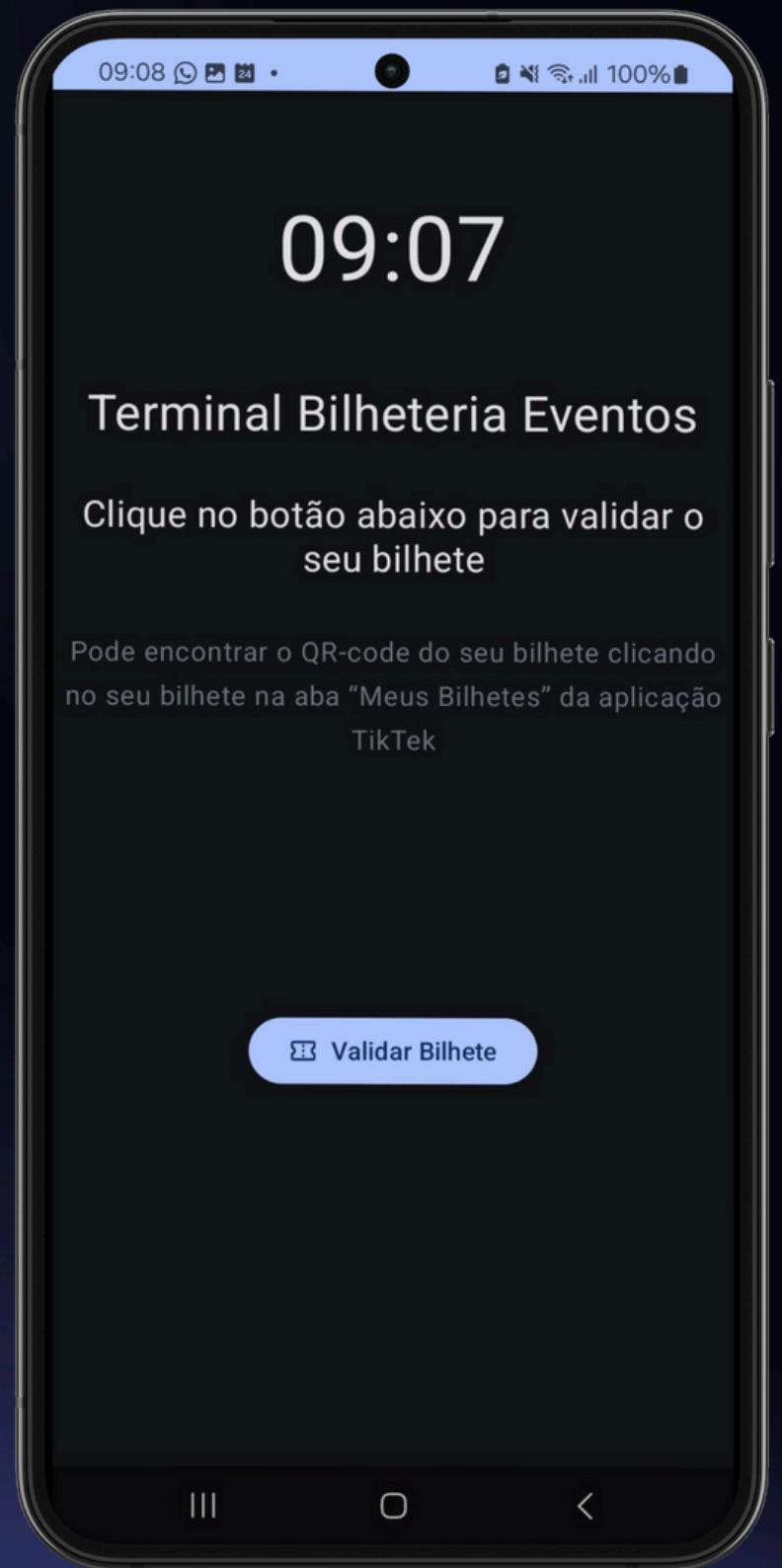
Terminal Ticket



Terminal Cafeteria



Features - Dark and Light Mode



Features - Other



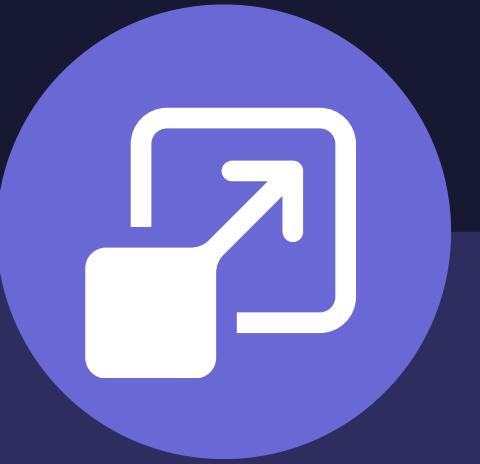
Available in Portuguese
and English



Biometric
Authentication
before purchases



Credit Card and SSN
Validation



Scalable Design

Challenges Found

Running Time

Memory issues, long run times, OS changes...

Kotlin Learning Curve

We had a hard time learning how to use Kotlin.

Scalable App Architecture

We decided to use good practices in the design of our app, but they take a lot of effort to implement.

Thank you!

