

TICKEZY

Event • Ticket • Moment

A Real-World Ticketing App Built with Swift & SwiftUI

UMURERWA Lisa Ornella
MUGABO André

SwiftUI Pitch Presentation

TICKEZY

2025-12-30

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MUGABO André

SwiftUI Pitch Presentation

Lisa: Good morning. We are UMURERWA Lisa Ornella and MUGABO André. Today we are presenting Tickezy, a real-world ticketing application built using Swift and SwiftUI.

Pitch Focus

Core Message

Tickezy proves our ability to design, architect, and build real-world iOS applications using Swift and SwiftUI.

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Pitch Focus

Lisa: This presentation focuses on how we used SwiftUI to build a clean, modern, and scalable iOS application.

Pitch Focus

Core Message

Tickezy proves our ability to design, architect, and build real-world iOS applications using Swift and SwiftUI.

The Problem

- Buying event tickets is often slow or confusing
- Users expect fast, smooth, native mobile apps

Opportunity: Build a simple and intuitive ticketing experience using SwiftUI.

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The Problem

Lisa: Many platforms feel complex. SwiftUI helped us focus on clarity and user experience.

Opportunity: Build a simple and intuitive ticketing experience using SwiftUI.

SwiftUI App Lifecycle

- Modern @main app entry point
- Scene-based lifecycle
- No storyboards

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└ SwiftUI App Lifecycle

Lisa: Tickezy uses the modern SwiftUI lifecycle, which simplifies state and navigation management.

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SwiftUI Views

- NavigationStack
- List and ScrollView
- Reusable UI components

Declarative and state-driven user interface.

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SwiftUI Views

Lisa: SwiftUI allows us to describe the UI declaratively. The UI reacts automatically to state changes.

Declarative and state-driven user interface.

SwiftUI First Impression



A clean, modern SwiftUI splash screen

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SwiftUI First Impression

Lisa: This is the Tickezy splash screen. It introduces the app's branding and provides a calm and modern first impression.

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Loading your experience...

SwiftUI First Impression

A clean, modern SwiftUI splash screen

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SwiftUI Interface Showcase

A screenshot of an iPhone X-style device displaying a SwiftUI interface. The screen shows a large image of two people walking in a mountainous landscape. Below the image, the text "Sample Concert" and "UPCOMING" is displayed. A detailed event card for "Sample Concert" is shown, including the date (December 27, 2025), time (16:52), location (Kigali Arena), and category (CONCERT). At the bottom, there is a blue "Buy Ticket" button and a navigation bar with icons for Dashboard, Tickets, Admin, and Profile.

A screenshot of an iPhone X-style device displaying a SwiftUI interface. The screen shows a large QR code with the text "Show this QR code at the event entrance". Below the QR code, the event details are repeated: "Sample Concert" on December 27, 2025 at 16:52, Location Kigali Arena, Category CONCERT. At the bottom, a "Ticket Information" section shows "Ticket ID: 22c8fa4e-318" and "Quantity: x1". There is also a "VALID" status indicator. A "Done" button is visible at the top right.

Event discovery and ticket details built with SwiftUI

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SwiftUI Interface Showcase

Lisa: On the left is the event list built using NavigationStack and reusable components. On the right is the ticket detail screen showing ticket information clearly.

SwiftUI Interface Showcase

Event discovery and ticket details built with SwiftUI

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This image shows a presentation slide comparing MVVM and SwiftUI architectures. The slide is divided into two main sections: a dark blue left section and a light gray right section.

Left Section (Dark Blue):

- Model:**
 - Swift structs
 - Codable
- View:**
 - SwiftUI only
- ViewModel:**
 - State and logic

Right Section (Light Gray):

2025-12-30 TICKEZY MVVM Architecture

André: MVVM separates UI from business logic, making the app scalable and easy to maintain.

MVVM Architecture

MVVM Architecture



André: SwiftUI listens to state changes and updates the UI automatically.

- @State
- @Published
- ObservableObject

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State Management

State Management

Networking in Swift

- URLSession
- Codable
- Asynchronous data loading

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└ Networking in Swift

André: When data arrives from the backend, SwiftUI refreshes the interface automatically.

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Networking in Swift

Backend Supporting SwiftUI UX

Feature	SwiftUI Impact
Authentication	Secure login flow
QR Code	Digital ticket display
PDF Ticket	Downloadable passes
Email	Confirmation feedback

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Backend Supporting SwiftUI UX

André: Backend services exist to support a smooth and responsive SwiftUI experience.

Backend Supporting SwiftUI UX

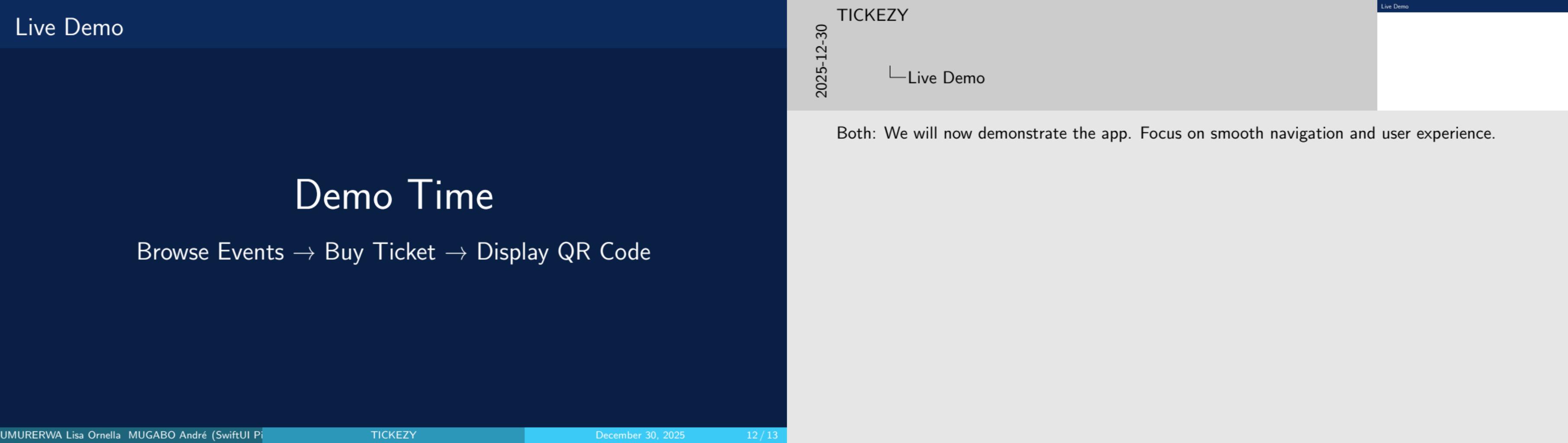
Backend Supporting SwiftUI UX

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Live Demo

Demo Time

Browse Events → Buy Ticket → Display QR Code

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└ Live Demo

Both: We will now demonstrate the app. Focus on smooth navigation and user experience.

Live Demo

Challenges & Lessons

- Managing asynchronous data
- Designing with state-driven UI

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└ Challenges & Lessons

Lisa: SwiftUI taught us to think in terms of state rather than traditional screen-based UI.

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Conclusion

Final Message

Tickezy demonstrates our ability to build scalable, real-world iOS applications using Swift and SwiftUI.

Thank you — we are happy to answer questions or continue the demo.

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Conclusion

Both: Thank the audience and invite questions.

Final Message

Tickezy demonstrates our ability to build scalable, real-world iOS applications using Swift and SwiftUI.