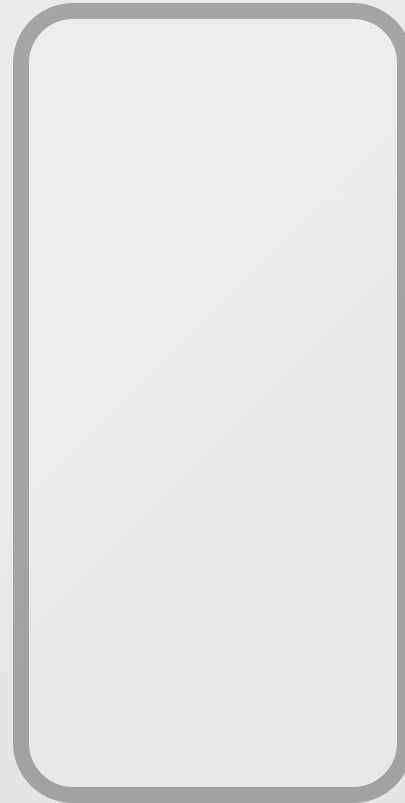


Horse Racing Betting Game

UI Design

— Android (Java)



📱 Single MainActivity + Fragments

</> ViewModel + LiveData



UI Design System & Navigation

Design System

Color Palette

●

Primary: #1976D2

●

Secondary: #FFC107

●

Success: #4CAF50

●

Error: #F44336

Typography

Sans-serif font (Roboto) with appropriate hierarchy:

Headings

Subheadings

Body Text

Components

■

CardView

●

Button

↓

Spinner

📄

EditText

📏

8dp Grid System

👉

48dp+ Touch Targets

Navigation Structure

Primary Navigation Flow



Fragment Structure

📱 MainActivity

Hosts all fragments

📄 DialogFragments

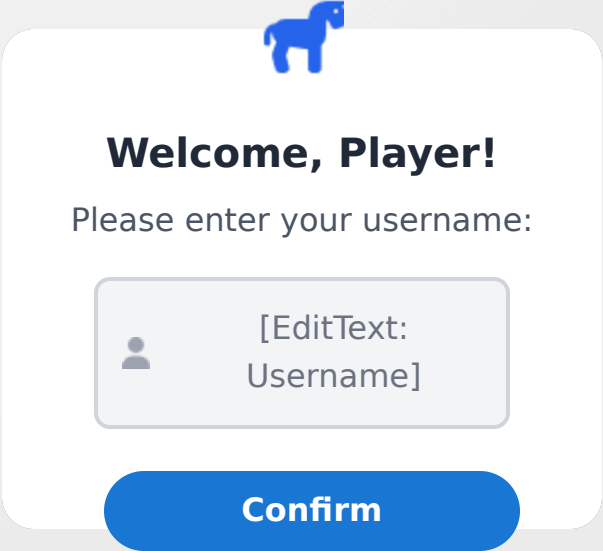
ResultFragment
HelpFragment

↔ Navigation Method

Manual fragment transactions
Dialogs appear as overlays

First Run & Main Menu UI

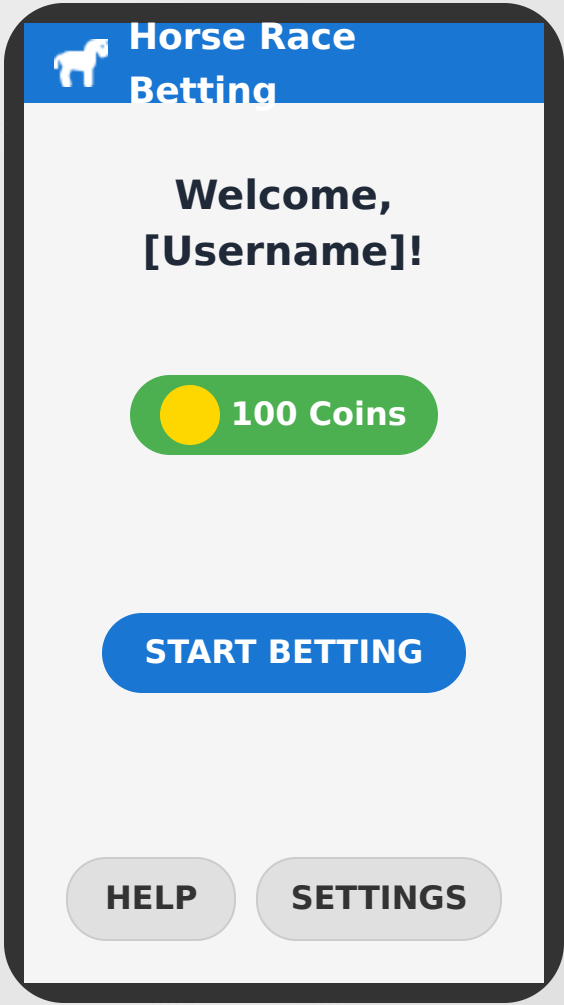
➡ First Run: Username Entry



Functionality

- ✔ Simple, focused design for first-time user onboarding
- ✔ Single EditText for username entry with clear label
- ✔ "Confirm" button to save username to GamePrefs
- ✔ Appears only once when firstRun is true

🏠 StartFragment (Main Menu)





Key Components


- | | |
|---|----------------------|
| 👑 App Logo Area | 👤 User Info Card |
| ▶ Main Action Button | ⚙️ Secondary Actions |
| 📄 WalletView observes GameViewModel.coins for real-time updates | |

Betting Interface

New Bet

 Horse
Choose Horse ▼





 Amount
10

 Laps
1 ▼

+ Add Bet

 Current Coins: 90

Your Bets

 Horse #1	20 Coins	2 Laps	
 Horse #3	10 Coins	1 Lap	

Total Stake: 30 Coins

▶ START RACE

Key Features

Bet Creation

- ✓ Horse selection spinner with icon
- ✓ Bet amount input with +/- controls
- ✓ Laps selection (1-3)

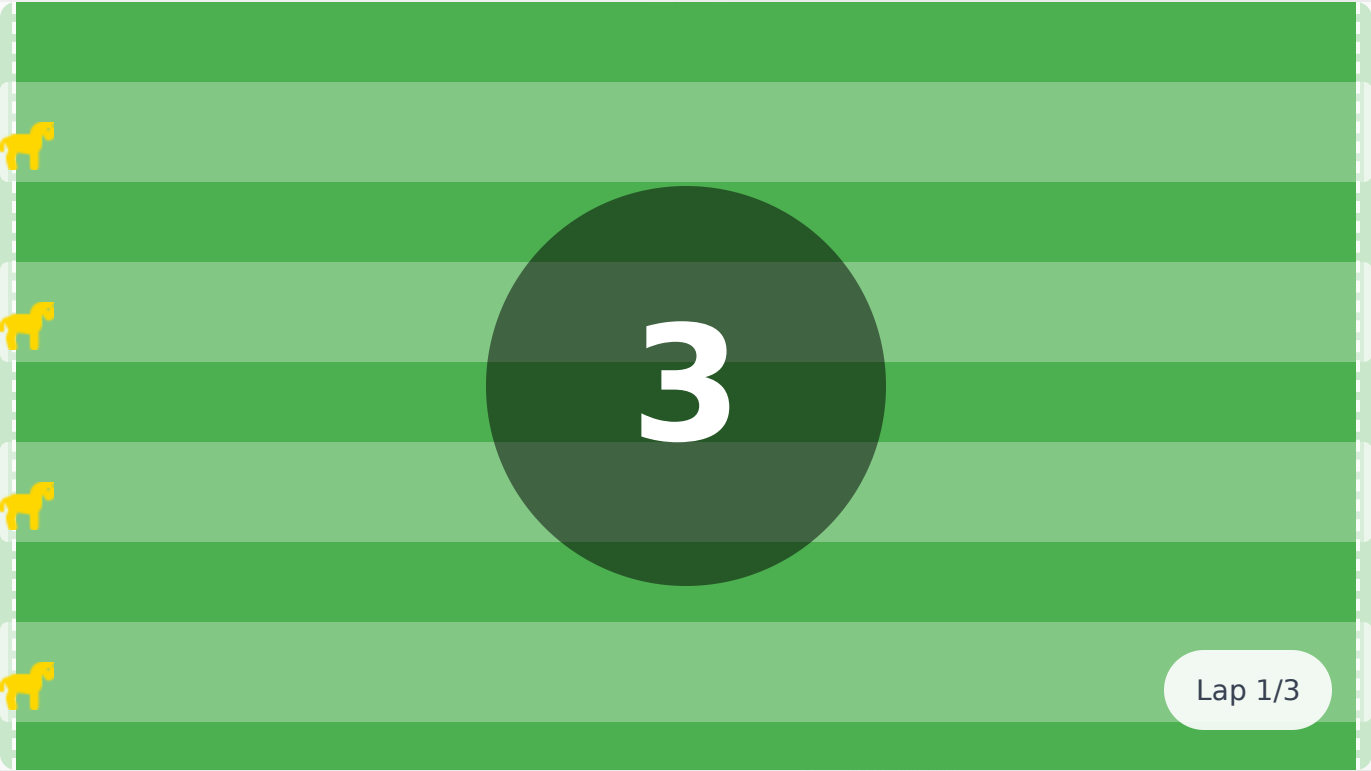
Bet Management


- ✓ RecyclerView for active bets
- ✓ Remove button per bet
- ✓ Total stake calculation
- ✓ Start race button (enabled when bets exist)


Input Validation

- 🛡️ Inline validation for bet amount
Error shown if stake exceeds wallet
- 🛡️ Positive integer validation
Clamped to wallet balance

Live Race UI



 Countdown State

 Race In Progress

RaceFragment Overview

The RaceFragment provides a dynamic, engaging view of the horse race with a focus on clarity and immersion.

Key UI Components



Track Background

Vibrant green background providing clear contrast for moving elements



Horse Lanes

Four distinct lanes guiding horses' movement along a straight path



Start/Finish Lines

Clearly marked lines indicating beginning and end of each lap and race





Lap Count Overlay


Non-intrusive display showing current lap progress (e.g., "Lap 1/3")


Results & Payout Screen

Race Results


1st


2nd


3rd


4th

Total Winnings/Losses: +30 Coins




Net Change: +75%

New Coin Balance: 120 Coins

Race Again


Main Menu

ResultFragment Features

-  Podium Display: Visual showcase of top 4 finishers with position indicators
-  Payout Summary: Clear display of winnings/losses and new balance
-  Progressive UI: Smooth transition from race to results

Payout Multipliers

1st Place	x2.0
2nd Place	x1.3
3rd Place	x1.1
4th Place	x0

-  Implements DialogFragment with LiveData observers for real-time balance updates

Help & Settings UI

? HelpFragment

Help & Instructions

⚙️ How to Play

✔️ Select a horse from the dropdown menu

✔️ Enter your bet amount and select laps

✔️ Click "Add Bet" to place your wager

✔️ Click "START RACE" to begin the race

📊 Payout Table

Placement	Multiplier
1st	x2.0
2nd	x1.3
3rd	x1.1
4th	x0

⚙️ Settings & Audio

🔊 Sound Effects

On

🎵 Background Music

On

Restart Game Confirmation

⚠️

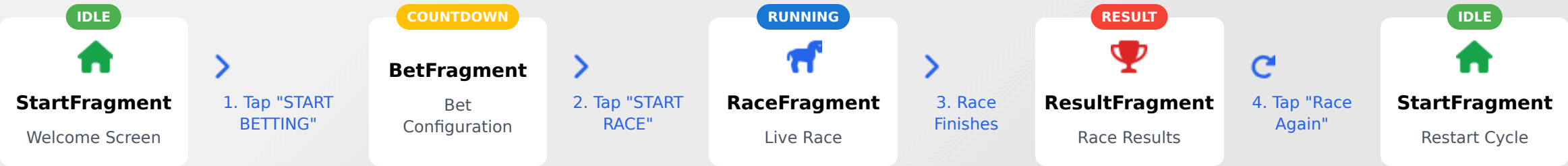
Are you sure you want to restart the game?

Cancel

Restart

Resets coins to 100, keeps your username

User Flow & Transitions



User Interactions

Bet Configuration

- Horse selection spinner
- Bet amount input (+/- buttons)
- Laps selection (1-3)
- Add/Remove bet buttons

Validation

- Inline validation for bet amount
- Total stake vs. wallet balance
- Error messages for invalid inputs

Race Experience

- 3-2-1 countdown
- Horse positions on track
- Lap counter overlay
- Immersive race animation

Results & Restart

- Podium display (1st-4th)
- Winnings/Losses summary
- New balance display
- Race again / Main menu options

Key Insights

Atomic Bets: Multiple bets allowed

Progressive Flow: Linear navigation with clear back paths

State Management: ViewModel controls all states