

Chkoba Mobile Game — Complete Build Plan (2-4 Players)

A modern **mobile multiplayer implementation of the Tunisian card game Chkoba (شكوبة)**, built with clean architecture, free deployment, Arabic & English support, and optimized to play privately between loved ones.



1. Game Description

Chkoba Mobile is a private, real-time multiplayer card game for **2 or 4 players**.

Match Modes

- **2 Players** → Each player plays **solo**
- **4 Players** → Players play in **teams of 2** (Team A vs Team B)

Room Creation Logic

- One player is the **Host**
- Host creates a room and chooses:
-  Target score: **11 or 21**
-  Players mode: **2 players** or **4 players**
- Host can invite:
- **1 player** (for 2-player match)
- **3 players** (for 4-player team match)

The game starts automatically once all invited players join.

2. Core Game Rules (Tunisian Chkoba)

Deck

- Default: **40-card deck** (Ace-7 + face cards)
- Optional future support: 52-card deck

Card Values (Tunisian Variant)

- Ace = 1
- 2-7 = face value
- Princess (Queen) = 8
- Prince (Jack) = 9
- King = 10

Dealing Rules

- Each player receives **3 cards**
- **4 cards** are placed on the table
- Cards are dealt in rounds until deck is finished

Capturing Rules

- A player captures cards if:
- Played card equals value of a table card
- OR sum of multiple table cards equals played card
- Captured cards go into the **player or team pile**

Chkoba

- If a player clears the table completely → **Chkoba bonus (+1)**

Scoring (End of Hand)

- Most cards captured
- Most coins (diamonds)
- 7 of diamonds (7-livra)
- Chkoba bonuses

Match End

- First player/team to reach **11 or 21 points wins** (chosen by host)
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3. 🎮 App Features



Multiplayer

- Real-time sync
- Turn-based logic
- Private rooms (invite-only)



UI & UX

- Drag & drop cards
- Smooth dealing & capture animations
- Turn indicator & score tracker

Themes

-  **Red Theme** (classic, romantic)
-  **White Theme** (clean, minimal)

Languages

-  **Arabic** (RTL supported)
-  **English**

Language switching at runtime.

4. Architecture Overview

Frontend (Mobile)

- **Flutter** (no Flame)
- Material 3
- Animations via Flutter widgets
- State management: **Riverpod**

Backend (Free Tier)

- **Supabase**
- Auth (anonymous / magic link)
- PostgreSQL database
- Realtime (rooms & turns)
- Edge Functions (game validation)

Why Supabase

✓ Free tier enough for private matches ✓ Realtime channels ✓ Built-in auth ✓ Easy mobile SDK

5. Project Structure

```
lib/  
├─ core/  
│   ├── rules/  
│   ├── game_engine/  
│   └─ models/  
├─ features/  
│   ├── lobby/  
│   ├── room/  
│   ├── game/  
│   └─ score/  
├─ ui/  
│   └─ themes/
```

```

|   ├── widgets/
|   └── animations/
|
|   └── l10n/
|       ├── ar.json
|       └── en.json
|
|   └── main.dart

```

Backend:

```

supabase/
├── functions/
│   └── validate_move.ts
├── migrations/
└── policies/

```

6. Game Engine Design

Responsibilities

- Validate legal moves
- Manage turns
- Compute captures
- Handle scoring
- Support 2 & 4 players

Configuration Object

```

GameConfig(
  playersCount: 2 or 4,
  targetScore: 11 or 21,
  teamsEnabled: true/false,
)

```

The engine is **UI-independent** and fully testable.

7. 🌿 Security & Fair Play

- Moves validated server-side (Edge Functions)
- Host permissions limited after game start

- Realtime sync protected by RLS
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8. Deployment (100% Free)

Mobile

- Android APK
- iOS (TestFlight)

Backend

- Supabase Free Tier
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9. Step-by-Step Build Plan

Phase 1 — Design

- Finalize rules & variants
- UI wireframes
- Theme colors

Phase 2 — Core Engine

- Cards & deck logic
- Capture algorithms
- Scoring system

Phase 3 — Multiplayer

- Room creation
- Invite system
- Realtime turns

Phase 4 — UI & Animations

- Card animations
- Theme switcher
- Arabic RTL support

Phase 5 — Testing

- Engine unit tests
- Multiplayer edge cases

Phase 6 — Deploy

- Supabase setup
 - Build APK
 - Share with Chayma ❤️
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10. Vision

This project is built not just as a game, but as a **private shared experience** — something simple, elegant, and personal, made to enjoy time together.

A small table. Two hearts. One deck.