

📱 PROJECT REQUIREMENTS DOCUMENTATION

TikTok-Style Restaurant Discovery Mobile Application

****Document Type:**** Complete Functional & Technical Specifications

****Target Audience:**** Development Company / Software Agency

📄 TABLE OF CONTENTS

1. [Executive Summary](#1-executive-summary)
2. [Project Overview](#2-project-overview)
3. [Functional Requirements](#3-functional-requirements)
4. [Technical Requirements](#4-technical-requirements)
5. [User Flow & Experience](#5-user-flow--experience)
6. [UI/UX Design Specifications](#6-uiux-design-specifications)
7. [Database Schema & Supabase Setup](#7-database-schema--supabase-setup)
8. [iOS & Android Publication](#8-ios--android-publication)
9. [Testing Requirements](#9-testing-requirements)
10. [Development Timeline & Milestones](#10-development-timeline--milestones)
11. [Deliverables](#11-deliverables)

1. EXECUTIVE SUMMARY

1.1 Project Description

A mobile application that allows users to discover restaurants and cafes through a ****TikTok-style vertical video feed****. Users scroll through short video content showcasing different places, can like, save, filter, and access detailed information about each location.

1.2 Key Features

- ****Vertical Video Feed**** with autoplay (TikTok/Reels-style)
- ****Location-based Discovery**** with map integration
- ****Advanced Filtering System**** (cuisine, price, distance, rating...)
- ****Social Features**** (like, save, share)
- ****User Authentication**** (Apple Sign In, Google Sign In)
- ****Offline Support**** with local caching

1.3 Target Platforms

- ****iOS**** (iPhone, iPad)
- ****Android**** (Phone, Tablet)

1.4 Technology Stack

- **Framework:** React Native with Expo
- **Backend:** Supabase (PostgreSQL + Real-time)
- **State Management:** Zustand
- **Navigation:** React Navigation
- **Video Player:** expo-video
- **Maps:** react-native-maps

2. PROJECT OVERVIEW

2.1 Business Objectives

1. **User Engagement:** Create an addictive, scrollable video experience
2. **Discovery:** Help users find restaurants/cafes based on preferences
3. **Social Sharing:** Enable users to share favorite places

2.2 Success Metrics

- User retention rate (Day 1, Day 7, Day 30)
- Average session duration
- Number of places viewed per session
- Filter usage rate
- Share/like engagement rate

2.3 Target Users

- **Primary:** Food enthusiasts aged 18-45
- **Secondary:** Tourists looking for local recommendations
- **Tertiary:** Social media users who enjoy video content

3. FUNCTIONAL REQUIREMENTS

3.1 Authentication & User Management



Saved Spots

1 spot
saved

Open Now

Restaurant

Gourmet Kitchen

French

500m

Opens until 11pm

4.9 • \$ \$\$\$

Heart icon

Right arrow icon

Open Now

Restaurant French

Gourmet Kitchen
★ 4.9 • \$ \$\$\$

Hours
Opens until 11pm

Distance
500m
away

About

Fine dining French cuisine with seasonal ingredients and exquisite presentation.

Location

56 Avenue des Champs-Élysées, Paris
[Open in Google Maps](#)

Social Media

Follow on Instagram
@gourmetkitchen
[Open in new tab](#)

Menu

View Menu
Tap to view

Book Now



Art Enthusiast
New York, NY

12

Places Liked

Edit Profile

Help & Support

Settings

Log Out

Version 1.0.0



Explore



Map



Saved



Profile



Explore



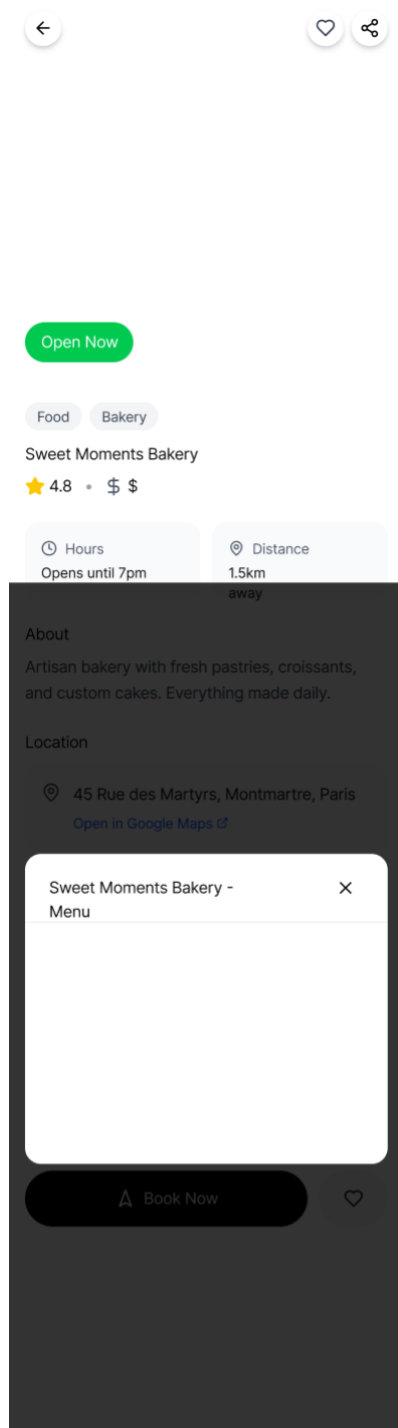
Map



Saved



Profile



3.1.1 Login Screen





****Requirements:****

- Apple Sign In (required for iOS)
- Google Sign In (optional)
- Email/Password (optional, future phase)
- Guest mode (optional, limited features)

****User Flow:****

1. App launches → Check if user is logged in
2. If not logged in → Show Login Screen
3. User selects authentication method
4. After successful auth → Navigate to Feed Screen

****Acceptance Criteria:****

-  Seamless authentication flow
-  User session persists across app restarts
-  Logout functionality available
-  Error handling for failed authentication

3.1.2 User Profile

****Requirements:****

- Display user information (name, email, avatar)
- Edit profile (future phase)
- View favorite places count
- Logout option

3.2 Feed Screen (Main Feature)

3.2.1 Video Feed

****Core Functionality:****

- ****Vertical Scroll:**** Infinite scroll through video content
- ****Autoplay:**** Video automatically plays when visible (>50% viewport)
- ****Single Active Video:**** Only one video plays at a time
- ****Auto-pause:**** Videos pause when scrolled out of view
- ****Loop:**** Videos loop continuously
- ****Mute/Unmute:**** Active video has sound, others are muted

****Technical Requirements:****

- Smooth scrolling (60 FPS)
- Preload next 2-3 videos for seamless playback
- Memory management (unload videos far from viewport)
- Handle video loading errors gracefully

****User Interactions:****

- ****Swipe Up:**** Next video
- ****Swipe Down:**** Previous video
- ****Tap Video:**** Pause/Play toggle
- ****Swipe Left:**** Open image gallery
- ****Long Press:**** Show quick actions menu (future)

3.2.2 Place Information Overlay

****Displayed Information:****

- Place name (large, bold)
- Address (with distance if location enabled)
- Description (2 lines max, expandable)
- Phone number (tappable)
- Rating (stars)
- Price range (€, €, €, €, €€€€)

****Positioning:****

- Bottom of screen
- Above tab bar
- Semi-transparent background for readability

3.2.3 Action Buttons

****Right Side Actions (Vertical Stack):****

1. ****Dislike**** (thumbs down) - Hide this place
2. ****Like**** (heart) - Add to favorites
3. ****Share**** (share icon) - Share place
4. ****Instagram**** (Instagram logo) - Open Instagram profile

****Behavior:****

- Icons with semi-transparent background
- Animated feedback on tap
- Like button changes color when favorited

3.2.4 Filter Button

****Location:**** Top right corner

****Functionality:****

- Opens filter modal
- Shows active filter count badge
- Quick reset option

3.3 Filter System

3.3.1 Filter Modal

****Available Filters:****

1. ****Place Type****

- Restaurant
- Café
- Multi-select

2. ****Cuisine Type****

- Indian

- Italian
- Japanese
- Korean
- Lebanese
- Iranian
- Moroccan
- Thai
- French
- Multi-select

3. ****Distance****

- Slider: 0-10 km
- Based on user location
- Default: 5 km

4. ****Price Range****

- € (Budget)
- €€ (Moderate)
- €€€ (Expensive)
- €€€€ (Very Expensive)
- Multi-select

5. ****Rating****

- Slider: 0-5 stars
- Minimum rating filter
- Default: 0 (all ratings)

6. ****Availability**** (Future Phase)

- Party size (number of people)
- Date picker
- Time range (start/end)

7. ****Transport Mode**** (Future Phase)

- Walk
- Car
- Transit

****UI Components:****

- Checkboxes for multi-select options
- Sliders for numeric values
- Date/Time pickers for availability
- "Apply" button (applies filters and closes modal)
- "Reset" button (clears all filters)
- "Cancel" button (closes without applying)

****Behavior:****

- Filters persist in local storage

- Applied filters show count badge on filter button
- Filter modal can be opened from Feed Screen
- First-time users see filter screen on app launch

3.4 Map Screen

3.4.1 Map Display

****Requirements:****

- Interactive map (Google Maps / Apple Maps)
- Display all places as pins/markers
- User location marker (if permission granted)
- Clustering for nearby places (if many markers)

****Map Controls:****

- Zoom in/out
- Pan to explore
- Center on user location button
- Filter toggle (show/hide filtered places)

3.4.2 Place Markers

****Marker Design:****

- Custom pin with place type icon
- Selected marker highlighted
- Show place name on tap

****Interactions:****

- Tap marker → Show place info card
- Info card shows:
 - Place name
 - Address
 - Rating
 - Price range
 - "View Details" button
 - "Get Directions" button

3.5 Favorites Screen

3.5.1 Favorites List

****Display:****

- Grid or list view of favorited places
- Place card shows:
 - Thumbnail image
 - Place name
 - Address

- Rating
- Price range

****Interactions:****

- Tap place → Navigate to Feed and scroll to that place
- Long press → Remove from favorites
- Swipe to delete (optional)

****Empty State:****

- Message: "No favorites yet"
- CTA: "Start exploring"

3.6 Place Detail Screen

3.6.1 Detail View

****Sections:****

1. ****Image Gallery****

- Horizontal scrollable gallery
- Full-screen view on tap
- Video thumbnail (if available)

2. ****Place Information****

- Name (large)
- Description (full text)
- Address (with map link)
- Phone (tappable)
- Website (tappable)
- Opening hours (if available)
- Instagram link

3. ****Actions****

- Like/Unlike button
- Share button
- Get Directions button
- Call button

4. ****Additional Info****

- Rating breakdown
- Price range
- Cuisine type
- Place type

3.7 Account Screen

3.7.1 Account Management

****Display:****

- User avatar
- User name
- Email
- Number of favorites
- App version

****Actions:****

- Edit profile (future)
- Settings (future)
- Logout button
- Delete account (future)

4. TECHNICAL REQUIREMENTS

4.1 Technology Stack

4.1.1 Frontend Framework

****React Native with Expo****

- ****Version:**** Expo SDK 54
- ****React:**** 18.2.0
- ****React Native:**** 0.81.5
- ****TypeScript:**** 5.9.2

****Rationale:****

- Cross-platform development (iOS + Android)
- Fast development cycle
- Over-the-air updates
- Native performance

4.1.2 Key Dependencies

```json

```
{
 "expo": "54.0.20",
 "react": "18.2.0",
 "react-dom": "18.2.0",
 "expo-video": "~3.0.15",
 "@react-navigation/native": "^7.1.17",
 "@react-navigation/bottom-tabs": "^7.4.7",
 "@react-navigation/stack": "^7.4.8",
 "zustand": "^5.0.8",
 "@supabase/supabase-js": "^2.45.4",
```

```

"expo-location": "^19.0.7",
"react-native-maps": "1.20.1",
"expo-apple-authentication": "~8.0.7",
"expo-auth-session": "~7.0.8",
"@react-native-async-storage/async-storage": "^2.2.0"
}
...

```

#### #### 4.1.3 State Management

##### **\*\*Zustand Stores:\*\***

- `authStore` - User authentication state
- `favoritesStore` - User favorites (with persistence)
- `filtersStore` - Active filters (with persistence)
- `hiddenStore` - Hidden places

##### **\*\*Persistence:\*\***

- AsyncStorage for local persistence
- Supabase sync for favorites (when authenticated)

#### ### 4.2 Architecture

##### #### 4.2.1 Folder Structure

...

```

src/
├── api/ # API clients & services
│ ├── client.ts # Supabase client
│ ├── placesService.ts # Places API service
│ └── env.ts # Environment variables
├── assets/ # Static assets
│ ├── images/ # Image assets
│ └── videos/ # Video assets (local)
├── components/ # Reusable components
│ ├── VideoPlayerFullScreen.tsx
│ ├── ImageGallery.tsx
│ ├── FilterModal.tsx
│ └── PlacePin.tsx
├── hooks/ # Custom React hooks
│ ├── useVideoPlayback.ts # Video playback logic
│ ├── usePlaces.ts # Places data fetching
│ └── useFilters.ts # Filter logic
├── navigation/ # Navigation setup
│ └── AppNavigator.tsx
├── screens/ # Screen components
│ └── FeedScreen.tsx

```

```

| ├── MapScreen.tsx
| ├── FavoritesScreen.tsx
| ├── PlaceDetailScreen.tsx
| ├── LoginScreen.tsx
| └── AccountScreen.tsx
├── store/ # Zustand stores
| ├── authStore.ts
| ├── favoritesStore.ts
| ├── filtersStore.ts
| └── hiddenStore.ts
├── types/ # TypeScript types
| └── index.ts
├── utils/ # Utility functions
| ├── cache.ts
| ├── videoPreloader.ts
| └── logger.ts
...

```

#### #### 4.2.2 Video Playback Architecture

**\*\*Critical Component: `useVideoPlayback` Hook\*\***

**\*\*Requirements:\*\***

- ☒ Player created ONLY with valid source
- ☒ NO `player` in useEffect dependencies (prevents infinite loops)
- ☒ Unique key for VideoView (forces re-creation on source change)
- ☒ Proper cleanup on unmount
- ☒ Error handling with retry mechanism

**\*\*Implementation:\*\***

See `GUIDE\_USEVIDEOPLAYER\_EXPO\_GO.md` for complete implementation details.

### ### 4.3 Performance Requirements

#### #### 4.3.1 Video Performance

- **\*\*Frame Rate:\*\*** 60 FPS during scroll
- **\*\*Video Loading:\*\*** Preload next 2-3 videos
- **\*\*Memory Management:\*\*** Unload videos >3 positions away
- **\*\*Autoplay Delay:\*\*** < 200ms after video becomes visible

#### #### 4.3.2 App Performance

- **\*\*Cold Start:\*\*** < 2 seconds
- **\*\*Screen Transitions:\*\*** < 300ms
- **\*\*Filter Application:\*\*** < 500ms
- **\*\*Map Rendering:\*\*** < 1 second

#### #### 4.3.3 Network Optimization

- **Image Caching:** Cache images locally
- **Video Caching:** Cache video thumbnails
- **API Caching:** Cache places data (TTL: 10 minutes)
- **Offline Support:** Show cached data when offline

### ### 4.4 Security Requirements

#### #### 4.4.1 Authentication

- Secure token storage
- Token refresh mechanism
- Session timeout handling

#### #### 4.4.2 Data Protection

- Encrypt sensitive data in AsyncStorage
- Secure API communication (HTTPS)
- User data privacy compliance (GDPR)

### ### 4.5 Platform-Specific Requirements

#### #### 4.5.1 iOS

- **Minimum Version:** iOS 13.0
- **Permissions:**
  - Location (When In Use)
  - Camera (for future features)
  - Photo Library (for sharing)
- **App Store Guidelines:**
  - Privacy policy required
  - Age rating: 4+ (or appropriate)
  - Content guidelines compliance

#### #### 4.5.2 Android

- **Minimum Version:** Android 8.0 (API 26)
- **Permissions:**
  - ACCESS\_FINE\_LOCATION
  - ACCESS\_COARSE\_LOCATION
  - READ\_EXTERNAL\_STORAGE (for Android < 13)
  - READ\_MEDIA\_IMAGES (for Android 13+)
- **Play Store Guidelines:**
  - Privacy policy required
  - Content rating

- Target SDK: Latest

---

## ## 5. USER FLOW & EXPERIENCE

### ### 5.1 First-Time User Flow

...

1. App Launch  
↓
2. Splash Screen (1.5 seconds)  
↓
3. Login Screen
  - Apple Sign In button
  - Google Sign In button  
↓
4. Authentication  
↓
5. Filter Screen (First Time)
  - Welcome message
  - Filter options
  - "Start Exploring" button  
↓
6. Feed Screen
  - First video autoplays
  - Tutorial overlay (optional)

...

### ### 5.2 Returning User Flow

...

1. App Launch  
↓
2. Splash Screen  
↓
3. Check Authentication
  - If logged in → Feed Screen
  - If not logged in → Login Screen  
↓
4. Feed Screen
  - Resume from last position (optional)
  - Videos autoplay

...

### ### 5.3 Feed Interaction Flow

...

User on Feed Screen



Scroll Up/Down



Video becomes visible (>50%)



Autoplay starts



User sees place info



User can:

- Like (adds to favorites)
- Share (opens share sheet)
- Dislike (hides place)
- Tap info (opens details)
- Swipe left (opens gallery)
- Tap filter (opens filters)

...

### ### 5.4 Filter Flow

...

User taps Filter button



Filter Modal opens



User selects filters



User taps "Apply"



Modal closes



Feed updates with filtered results



Filter badge shows count

...

### ### 5.5 Navigation Flow

...

Bottom Tab Bar:

- Feed (default)
- Map
- Favorites
- Account



From Feed:

- Tap place info → Place Detail
- Swipe left → Image Gallery

From Map:

- Tap marker → Place Info Card
- Tap "Details" → Place Detail

From Favorites:

- Tap place → Navigate to Feed (scroll to place)
- Tap place → Place Detail

...

---

## ## 6. UI/UX DESIGN SPECIFICATIONS

### ### 6.1 Design System

#### #### 6.1.1 Colors

**\*\*Primary:\*\***

- Background: `#000000` (Black)
- Text: `#FFFFFF` (White)
- Accent: `#FF4757` (Red for likes)

**\*\*Secondary:\*\***

- Overlay: `rgba(0, 0, 0, 0.6)`
- Tab Bar: `#FFFFFF`
- Border: `#E9ECEF`

#### #### 6.1.2 Typography

**\*\*Fonts:\*\***

- Primary: System font (SF Pro on iOS, Roboto on Android)
- Sizes:
  - Title: 24px, Bold
  - Subtitle: 18px, Semi-bold
  - Body: 16px, Regular
  - Caption: 14px, Regular

#### #### 6.1.3 Spacing

- Small: 8px
- Medium: 16px
- Large: 24px
- XLarge: 32px

#### #### 6.1.4 Components

##### **\*\*Buttons:\*\***

- Height: 50px
- Border radius: 25px
- Padding: 16px horizontal

##### **\*\*Icons:\*\***

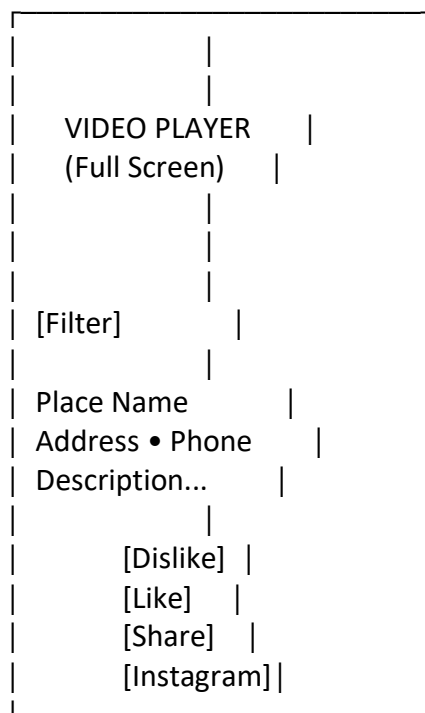
- Size: 30px (large), 22px (small)
- Color: White with semi-transparent background

#### ### 6.2 Screen Mockups

##### #### 6.2.1 Feed Screen

##### **\*\*Layout:\*\***

...



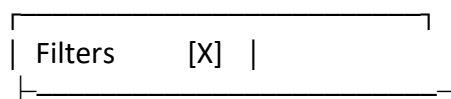
[Feed] [Map] [❤️] [👤]

...

##### #### 6.2.2 Filter Modal

##### **\*\*Layout:\*\***

...











|                                     |                                  |
|-------------------------------------|----------------------------------|
| Place Type                          |                                  |
| <input type="checkbox"/> Restaurant |                                  |
| <input type="checkbox"/> Café       |                                  |
| Cuisine                             |                                  |
| <input type="checkbox"/> Indian     | <input type="checkbox"/> Italian |
| <input type="checkbox"/> Japanese   | <input type="checkbox"/> Korean  |
| ...                                 |                                  |
| Distance: [====●=====]              |                                  |
| 5 km                                |                                  |
| Price Range                         |                                  |
| <input type="checkbox"/> €          | <input type="checkbox"/> €€      |
| <input type="checkbox"/> €€€        |                                  |
| Rating: [====●=====]                |                                  |
| 4.0 ★                               |                                  |
| [Reset]                             | [Apply]                          |

...

#### 6.2.3 Map Screen

\*\*Layout:\*\*

...

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| [📍]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| <div>  <div>MAP</div> </div>                                                                                                                                                                                                                                                                                                                                                                                |  |
| <div>    </div>                                                                                                                                                                                                                       |  |
| <div> <div>Place Name</div> <div>Address</div> <div> <div>     </div> <div>€€</div> </div> <div> <div>[Details]</div> <div>[→]</div> </div> </div> |  |
| <div> <div>[Feed]</div> <div>[Map]</div> <div>[❤️]</div> <div>[👤]</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                 |  |

...

### 6.3 Animations

#### #### 6.3.1 Transitions

- \*\*Screen Transitions:\*\* Slide (300ms)
- \*\*Modal Open:\*\* Fade + Scale (250ms)
- \*\*Button Tap:\*\* Scale (100ms)

#### #### 6.3.2 Video Transitions

- \*\*Scroll:\*\* Smooth, no lag
- \*\*Autoplay:\*\* Fade in (200ms)
- \*\*Pause:\*\* Immediate

#### #### 6.3.3 Feedback

- \*\*Like Button:\*\* Scale animation + color change
- \*\*Share:\*\* Haptic feedback
- \*\*Filter Badge:\*\* Pulse animation when active

---

### ## 7. DATABASE SCHEMA & SUPABASE SETUP

#### ### 7.1 Database Schema

##### #### 7.1.1 Places Table

```
``sql
CREATE TABLE places (
 id UUID PRIMARY KEY DEFAULT uuid_generate_v4(),
 name VARCHAR(255) NOT NULL,
 description TEXT,
 type VARCHAR(50) NOT NULL, -- 'restaurant' or 'cafe'
 cuisine VARCHAR(50) NOT NULL,
 latitude DECIMAL(10, 8) NOT NULL,
 longitude DECIMAL(11, 8) NOT NULL,
 video_url TEXT,
 images TEXT[], -- Array of image URLs
 rating DECIMAL(2, 1) DEFAULT 0.0, -- 0.0 to 5.0
 price_range VARCHAR(10) DEFAULT '$$', -- '$', '$$', '$$$', '$$$$'
 address TEXT NOT NULL,
 phone VARCHAR(20),
 website TEXT,
 instagram_url TEXT,
 opening_hours JSONB, -- Array of day/time objects
 created_at TIMESTAMP DEFAULT NOW(),
 updated_at TIMESTAMP DEFAULT NOW()
);
```

```
-- Indexes
CREATE INDEX idx_places_type ON places(type);
CREATE INDEX idx_places_cuisine ON places(cuisine);
CREATE INDEX idx_places_location ON places USING GIST(
 ll_to_earth(latitude, longitude)
);
```

```

7.1.2 Favorites Table

```
```sql
CREATE TABLE favorites (
 id UUID PRIMARY KEY DEFAULT uuid_generate_v4(),
 user_id UUID NOT NULL REFERENCES auth.users(id) ON DELETE CASCADE,
 place_id UUID NOT NULL REFERENCES places(id) ON DELETE CASCADE,
 created_at TIMESTAMP DEFAULT NOW(),
 UNIQUE(user_id, place_id)
);
```

```

```
-- Indexes
CREATE INDEX idx_favorites_user ON favorites(user_id);
CREATE INDEX idx_favorites_place ON favorites(place_id);
```

```

#### #### 7.1.3 User Profiles Table

```
```sql
CREATE TABLE user_profiles (
  id UUID PRIMARY KEY REFERENCES auth.users(id) ON DELETE CASCADE,
  username VARCHAR(50),
  first_name VARCHAR(100),
  last_name VARCHAR(100),
  avatar_url TEXT,
  favorite_city VARCHAR(100),
  created_at TIMESTAMP DEFAULT NOW(),
  updated_at TIMESTAMP DEFAULT NOW()
);
```

```

### ### 7.2 Supabase Setup Instructions

#### #### 7.2.1 Project Creation

1. Go to <https://supabase.com>
2. Create new project
3. Choose region (closest to users)

4. Set database password
5. Wait for project initialization

#### #### 7.2.2 Database Setup

1. **\*\*Enable Extensions:\*\***

```
```sql
CREATE EXTENSION IF NOT EXISTS "uuid-ossf";
CREATE EXTENSION IF NOT EXISTS "earthdistance";
```
```

2. **\*\*Create Tables:\*\***

- Run SQL scripts from section 7.1

3. **\*\*Set Row Level Security (RLS):\*\***

```
```sql
-- Places: Public read, admin write
ALTER TABLE places ENABLE ROW LEVEL SECURITY;
CREATE POLICY "Places are viewable by everyone" ON places
FOR SELECT USING (true);

-- Favorites: User-specific
ALTER TABLE favorites ENABLE ROW LEVEL SECURITY;
CREATE POLICY "Users can view own favorites" ON favorites
FOR SELECT USING (auth.uid() = user_id);
CREATE POLICY "Users can insert own favorites" ON favorites
FOR INSERT WITH CHECK (auth.uid() = user_id);
CREATE POLICY "Users can delete own favorites" ON favorites
FOR DELETE USING (auth.uid() = user_id);
```
```

#### #### 7.2.3 Storage Setup

1. **\*\*Create Bucket for Media:\*\***

- Bucket name: `place-media`
- Public: Yes
- File size limit: 50MB
- Allowed MIME types: `image/\*`, `video/\*`

2. **\*\*Storage Policies:\*\***

```
```sql
-- Public read access
CREATE POLICY "Public Access" ON storage.objects
FOR SELECT USING (bucket_id = 'place-media');
```
```

#### #### 7.2.4 Authentication Setup

### 1. **\*\*Enable Providers:\*\***

- Apple Sign In
- Google Sign In

### 2. **\*\*Configure OAuth:\*\***

- Add redirect URLs
- Configure client IDs and secrets

## #### 7.2.5 Environment Variables

```
```env
EXPO_PUBLIC_SUPABASE_URL=https://your-project.supabase.co
EXPO_PUBLIC_SUPABASE_ANON_KEY=your-anon-key
```
```

## ### 7.3 API Endpoints

### #### 7.3.1 Places API

#### **\*\*Get All Places:\*\***

...

GET /rest/v1/places

...

#### **\*\*Get Place by ID:\*\***

...

GET /rest/v1/places?id=eq.{place\_id}

...

#### **\*\*Search Places (with filters):\*\***

...

GET /rest/v1/places?type=eq.restaurant&cuisine=eq.italian

...

### #### 7.3.2 Favorites API

#### **\*\*Get User Favorites:\*\***

...

GET /rest/v1/favorites?user\_id=eq.{user\_id}

...

#### **\*\*Add Favorite:\*\***

...

POST /rest/v1/favorites

Body: { "user\_id": "...", "place\_id": "..." }

...

**\*\*Remove Favorite:\*\***

---

DELETE /rest/v1/favorites?user\_id=eq.{user\_id}&place\_id=eq.{place\_id}

---

---

## ## 8. iOS & ANDROID PUBLICATION

### ### 8.1 iOS App Store Publication

#### #### 8.1.1 Prerequisites

##### 1. **\*\*Apple Developer Account\*\***

- Enroll in Apple Developer Program (\$99/year)
- Access to App Store Connect

##### 2. **\*\*App Store Connect Setup\*\***

- Create new app
- Bundle ID: `com.yourcompany.placesapp`
- App name, description, keywords
- Screenshots (required sizes):
  - iPhone 6.7" (1290 x 2796)
  - iPhone 6.5" (1242 x 2688)
  - iPhone 5.5" (1242 x 2208)
- App icon (1024 x 1024)

##### 3. **\*\*Privacy Policy\*\***

- Required URL
- Must cover data collection and usage

#### #### 8.1.2 Build Configuration

**\*\*app.json:\*\***

```json

{

"expo": {

"ios": {

"bundleIdentifier": "com.yourcompany.placesapp",

"buildNumber": "1",

"supportsTablet": true,

"usesAppleSignIn": true,

"infoPlist": {

"NSLocationWhenInUseUsageDescription": "We use your location to show nearby places.",


```
"NSLocationAlwaysAndWhenInUseUsageDescription": "We use your location to show nearby places.",  
  "NSPhotoLibraryUsageDescription": "We need access to save images to your photo library."  
}  
}  
}  
}  
...
```

8.1.3 Build Process

1. ****Install EAS CLI:****
``bash
npm install -g eas-cli
``
2. ****Login:****
``bash
eas login
``
3. ****Configure Project:****
``bash
eas build:configure
``
4. ****Build for iOS:****
``bash
eas build --platform ios
``
5. ****Submit to App Store:****
``bash
eas submit --platform ios
``

8.1.4 App Store Review Guidelines

- ****Content:**** No inappropriate content
- ****Functionality:**** App must work as described
- ****Privacy:**** Privacy policy and data usage disclosure
- ****Design:**** Follow Apple Human Interface Guidelines
- ****Performance:**** No crashes or bugs

8.2 Google Play Store Publication

8.2.1 Prerequisites

1. ****Google Play Developer Account****
 - One-time fee: \$25
 - Access to Google Play Console
2. ****Play Console Setup****
 - Create new app
 - Package name: `com.yourcompany.placesapp`
 - App name, description, screenshots
 - App icon (512 x 512)
 - Feature graphic (1024 x 500)

8.2.2 Build Configuration

```
**app.json:**
```json
{
 "expo": {
 "android": {
 "package": "com.yourcompany.placesapp",
 "versionCode": 1,
 "adaptiveIcon": {
 "foregroundImage": "./assets/adaptive-icon.png",
 "backgroundColor": "#ffffff"
 },
 "permissions": [
 "ACCESS_FINE_LOCATION",
 "ACCESS_COARSE_LOCATION",
 "READ_EXTERNAL_STORAGE",
 "WRITE_EXTERNAL_STORAGE"
]
 },
 }
}
```
```

8.2.3 Build Process

1. ****Build for Android:****

```
```bash
eas build --platform android
```
```
2. ****Submit to Play Store:****

```
```bash
eas submit --platform android
```
```

...

8.2.4 Play Store Requirements

- **Content Rating:** Complete questionnaire
- **Privacy Policy:** Required URL
- **Target API Level:** Latest Android version
- **64-bit Support:** Required for new apps
- **Data Safety:** Complete data safety form

8.3 Over-the-Air Updates (EAS Update)

8.3.1 Setup

1. **Enable Updates:**

```
```json
{
 "expo": {
 "updates": {
 "enabled": true,
 "fallbackToCacheTimeout": 0,
 "url": "https://u.expo.dev/your-project-id"
 }
 }
}
```
```

2. **Publish Update:**

```
```bash
eas update --branch production --message "Bug fixes and improvements"
```
```

8.3.2 Update Strategy

- **Production Branch:** Stable releases
- **Preview Branch:** Beta testing
- **Development Branch:** Internal testing

9. TESTING REQUIREMENTS

9.1 Unit Testing

Coverage Target: 70%+

Test Areas:

- Custom hooks (`useVideoPlayback`, `usePlaces`, `useFilters`)
- Utility functions
- Store logic (Zustand stores)
- API services

****Tools:****

- Jest
- React Native Testing Library

9.2 Integration Testing

****Test Scenarios:****

- Authentication flow
- Video playback and scrolling
- Filter application
- Favorites management
- Map interactions

9.3 E2E Testing

****Critical Paths:****

1. User login → Browse feed → Like place → View favorites
2. Apply filters → View filtered results → Reset filters
3. View map → Select place → View details
4. Share place → External app opens

****Tools:****

- Detox (React Native E2E)
- Appium (Alternative)

9.4 Performance Testing

****Metrics:****

- App launch time
- Video playback FPS
- Scroll performance
- Memory usage
- Battery consumption

****Tools:****

- React Native Performance Monitor
- Flipper
- Xcode Instruments (iOS)
- Android Profiler

9.5 Device Testing

****Required Devices:****

- iPhone 12/13/14 (iOS 15+)
- iPhone SE (small screen)
- iPad (tablet)
- Samsung Galaxy S21+ (Android 11+)
- Pixel 6+ (Android 12+)

****Test Scenarios:****

- Different screen sizes
- Different OS versions
- Network conditions (3G, 4G, WiFi)
- Offline mode

9.6 User Acceptance Testing (UAT)

****Test Plan:****

1. ****Alpha Testing:**** Internal team (2 weeks)
2. ****Beta Testing:**** Selected users (4 weeks)
3. ****Production Testing:**** Soft launch (1 week)

****Feedback Collection:****

- In-app feedback form
- Crash reporting (Sentry)
- Analytics (user behavior)

10. DEVELOPMENT TIMELINE & MILESTONES

10.1 Phase 1: Foundation (Weeks 1-2)

****Deliverables:****

- Project setup
- Navigation structure
- Basic UI components
- Authentication flow

****Milestones:****

- ☒ App launches and navigates
- ☒ User can log in
- ☒ Basic screens render

10.2 Phase 2: Core Features (Weeks 3-5)

****Deliverables:****

- Video feed with autoplay
- Place information display

- Like/share functionality
- Basic filtering

****Milestones:****

- ☒ Videos play automatically
- ☒ Smooth scrolling
- ☒ Actions work correctly

10.3 Phase 3: Advanced Features (Weeks 6-7)

****Deliverables:****

- Map integration
- Favorites management
- Place detail screen
- Image gallery

****Milestones:****

- ☒ All screens functional
- ☒ Data persistence works
- ☒ Offline support

10.4 Phase 4: Polish & Testing (Weeks 8-9)

****Deliverables:****

- UI/UX refinements
- Performance optimization
- Bug fixes
- Testing completion

****Milestones:****

- ☒ All tests passing
- ☒ Performance targets met
- ☒ No critical bugs

10.5 Phase 5: Publication (Weeks 10-11)

****Deliverables:****

- App Store submission
- Play Store submission
- Marketing materials
- Documentation

****Milestones:****

- ☒ Apps submitted
- ☒ Approval received
- ☒ Apps live in stores

11. DELIVERABLES

11.1 Code Deliverables

- ☒ Complete source code
- ☒ Documentation (README, API docs)
- ☒ Environment configuration files
- ☒ Database migration scripts

11.2 Documentation Deliverables

- ☒ Technical documentation
- ☒ API documentation
- ☒ Deployment guide
- ☒ User manual (optional)

11.3 Assets Deliverables

- ☒ App icons (all sizes)
- ☒ Splash screens
- ☒ Screenshots for stores
- ☒ Marketing materials

11.4 Testing Deliverables

- ☒ Test plans
- ☒ Test reports
- ☒ Bug reports
- ☒ Performance reports

11.5 Deployment Deliverables

- ☒ Production builds
- ☒ App Store listings
- ☒ Play Store listings
- ☒ Analytics setup

12. APPENDIX

12.1 Key Files Reference

- ****Video Playback Guide:**** `GUIDE_USEVIDEOPLAYER_EXPO_GO.md`
- ****Architecture Analysis:**** `ARCHITECTURE_ANALYSIS.md`

- **Correction Guide:** `CORRECTION_DEFINITIVE.md`

12.2 Contact & Support

- **Technical Questions:** [Your contact]
- **Project Management:** [PM contact]
- **Design Questions:** [Designer contact]

12.3 Version History

- **v1.0.0** (2024): Initial requirements document

END OF DOCUMENT