

# # 📱 PROJECT REQUIREMENTS DOCUMENTATION

## ## TikTok-Style Restaurant Discovery Mobile Application

\*\*Document Type:\*\* Complete Functional & Technical Specifications  
\*\*Target Audience:\*\* Development Company / Software Agency

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## ## 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

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## ## 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

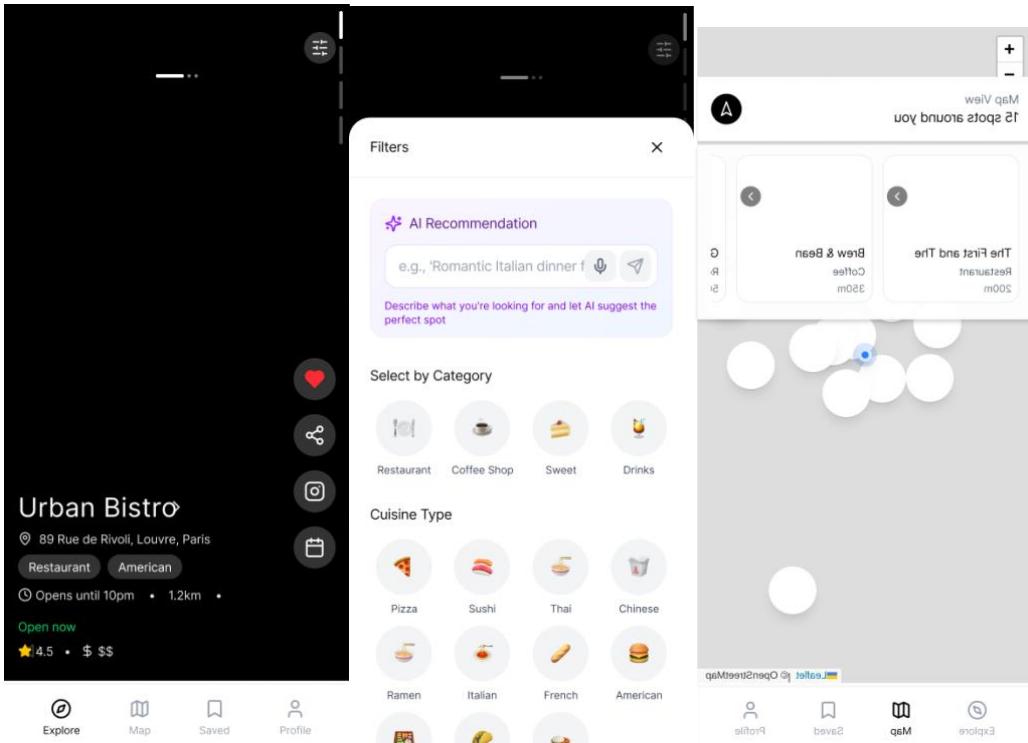
### ### 2.3 Target Users

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

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## ## 3. FUNCTIONAL REQUIREMENTS

### ### 3.1 Authentication & User Management



**Saved Spots**

1 spot saved

**Gourmet Kitchen**

French

500m • Opens until 11pm

4.9 • \$ \$\$\$

**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

**Menu**

[View Menu](#)  
Tap to view

**12**  
Places Liked

**Edit Profile**

**Help & Support**

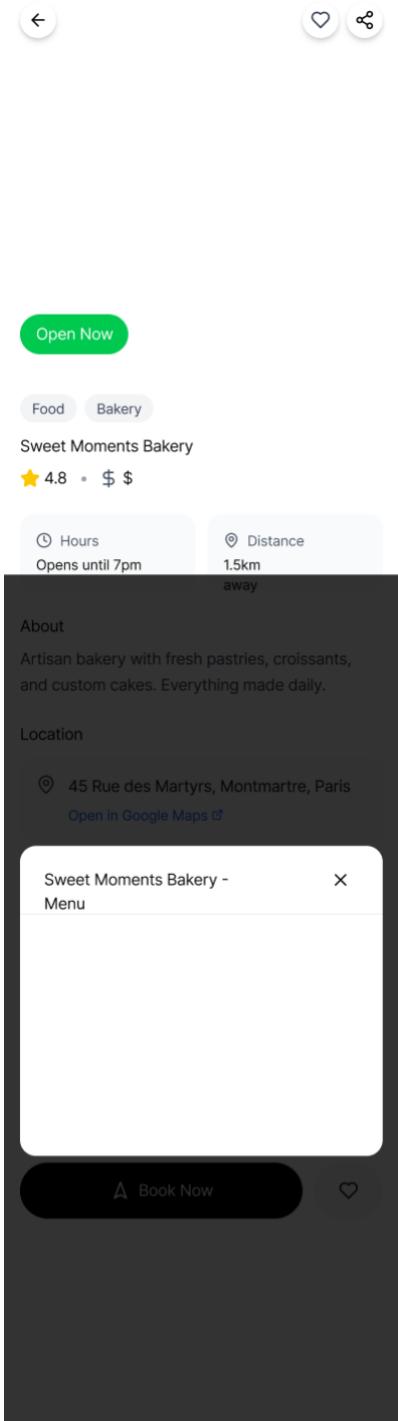
**Settings**

**Log Out**

**Book Now**

Version 1.0.0





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

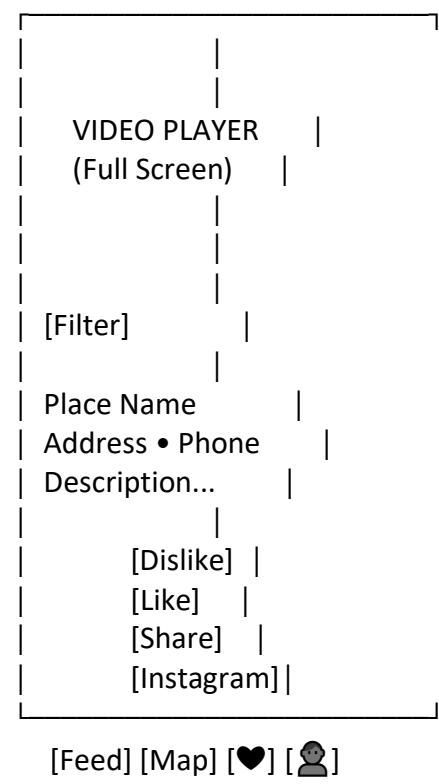
- Size: 30px (large), 22px (small)
- Color: White with semi-transparent background

#### ### 6.2 Screen Mockups

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

\*\*Layout:\*\*

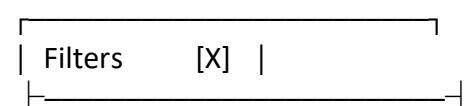
...

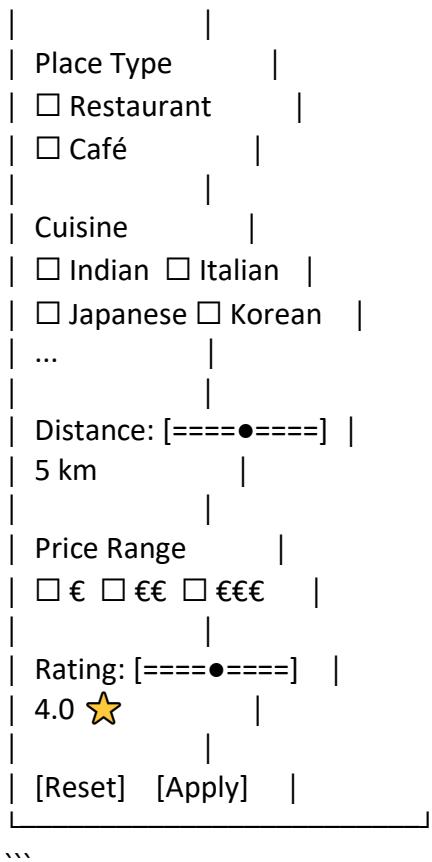


##### #### 6.2.2 Filter Modal

\*\*Layout:\*\*

...



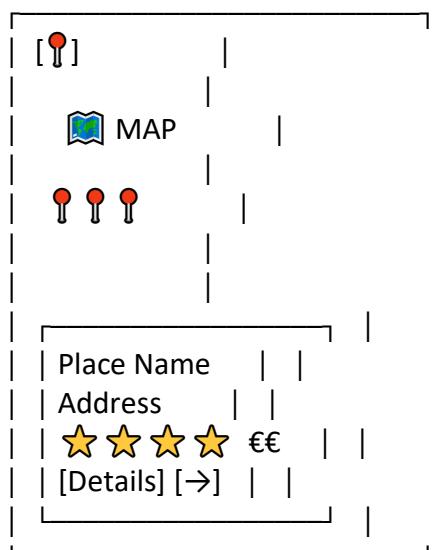


...

#### #### 6.2.3 Map Screen

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

...



...

#### ### 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 idxFavorites_user ON favorites(user_id);
CREATE INDEX idxFavorites_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-ossp";
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

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## ## 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

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## ## 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

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**\*\*END OF DOCUMENT\*\***