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# Android Deployment Guide for Love Oracle
This guide explains how to build and deploy the Love Oracle app for Android. The app uses Capacitor to wrap
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## Prerequisites
Before you begin, make sure you have the following installed:
1. Node.js and npm (latest LTS version recommended)
2. Android Studio (latest version)
3. Android SDK (via Android Studio)
4. Java Development Kit (JDK) 11 or newer
## Building the App
### Step 1: Build the Web App
First, build the web application to generate the optimized production files:
```bash
npm run build
```
This will create a `dist` folder with the compiled web app.
### Step 2: Update Capacitor Configuration
The app is already configured with Capacitor, but you might want to review the settings in `capacitor.config
.t...
- `appId`: Should be set to `com.loveoracle.app`
- `appName`: Should be set to `Love Oracle`
- `webDir`: Should point to the `dist` directory
### Step 3: Sync the Web App with the Android Project
Sync the built web app with the Android platform:
```bash
npx cap sync android
```
### Step 4: Open in Android Studio
Open the Android project in Android Studio:
```bash
npx cap open android
```
Alternatively, you can manually open the `android` folder in Android Studio.
### Step 5: Configure the App (if needed)
If you need to make additional configuration changes:
1. **Update app icon**: Replace the icon files in `android/app/src/main/res/mipmap-*`
2. **Update splash screen**: Modify files in `android/app/src/main/res/drawable`
3. **Adjust Android Manifest**: Edit `android/app/src/main/AndroidManifest.xml` if needed
### Step 6: Build the APK
#### Generate a debug APK
1. In Android Studio, select **Build** > **Build Bundle(s) / APK(s)** > **Build APK(s)**
2. The generated APK will be in `android/app/build/outputs/apk/debug/app-debug.apk`
#### Generate a release APK
1. In Android Studio, select **Build** > **Generate Signed Bundle / APK**
2. Select **APK** and follow the prompts to sign your app
3. Use an existing key or create a new keystore
   - **IMPORTANT**: Keep your keystore file and passwords secure. You'll need the same key for all future up
da...
4. Select a destination for the signed APK
5. Select the **release** build variant and click **Finish**
## Testing the App
### On a Physical Device
1. Enable USB debugging in the developer options on your Android device
2. Connect your device to your computer via USB
3. In Android Studio, select your device from the dropdown menu and click the Run button
### On an Emulator
1. Set up an Android Virtual Device (AVD) in Android Studio
2. Select your AVD from the dropdown menu and click the Run button
## Publishing to Google Play Store
To publish your app to the Google Play Store:
1. Create a Google Play Developer account (if you don't have one)
2. Prepare the store listing materials:
   - App title and description
   - App screenshots
   - Feature graphic
   - App icon
3. Submit the signed APK or App Bundle to the Google Play Console
4. Complete the store listing details
5. Set up pricing and distribution
6. Submit for review
### Google Play Policies for Apps Targeting Young Users
Since Love Oracle targets young users, ensure you comply with Google Play's Families Policy:
1. Use the "Designed for Families" program if appropriate
```

2. Ensure your privacy policy meets COPPA requirements
3. Use age-appropriate content and ad formats
4. The app includes proper AdMob child-directed treatment flags
5. Avoid collection of personal information from children without parental consent
## AdMob Integration
The app is already configured to use AdMob with your App ID:
```
ca-app-pub-5717347186318471~2315280916
```
And Banner Ad Unit ID:
```
ca-app-pub-5717347186318471/7831347387
```
For interstitial ads, you'll need to replace the test ID in `client/src/lib/adMobService.ts` with your actua
l ...
## Troubleshooting
### Common Issues
1. **Build failures**: Make sure you have the latest Android SDK tools and build tools installed.
2. **Missing dependencies**: Run `npm install` and then `npx cap sync android` again.
3. **Runtime errors**: Check the Logcat output in Android Studio for detailed error messages.
4. **AdMob not working**: Verify your Ad Unit IDs and check the Android Manifest has the correct AdMob confi
gu...
## Updating the App
When you need to update your app:
1. Make changes to your web app
2. Run `npm run build` to rebuild the web app
3. Run `npx cap sync android` to update the Android project
4. Update the version code and version name in `android/app/build.gradle`
5. Generate a new signed APK or App Bundle with the same signing key
6. Submit the update to Google Play
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If you have any questions or issues, please don't hesitate to reach out for assistance.