Google Play Billing Setup Guide

Start Making Money from Tomas Hoca

Overview

This guide will help you set up in-app subscriptions on Google Play so users can pay directly through the app.

What you'll set up:

- 4 subscription products in Google Play Console
- Google Cloud service account for receipt verification
- Environment variables in Supabase

Time needed: About 1-2 hours

Step 1: Create Subscription Products in Google Play Console

1.1 Go to Google Play Console

1. Open: https://play.google.com/console
2. Select your app: **Tomas Hoca**
3. In the left menu, go to: **Monetize** → **Products** → **Subscriptions**

1.2 Create Your First Subscription: AI Only Monthly

Click **"Create subscription"** and fill in:

Field	Value
Product ID	`ai_only_monthly`
Name	AI Only Plan (Monthly)
Description	Unlimited AI English practice with grammar feedback and pronunciation analysis

Then click **"Add a base plan"**:

Field	Value
Base plan ID	`ai-only-monthly-base`
Billing period	1 Month
Price (Turkey)	₺250.00
Renewal type	Auto-renewing
Grace period	7 days
Account hold	30 days

Free trial settings (recommended):

Field	Value
Free trial	7 days
Trial availability	Once per app

Click **Save** and **Activate**.

1.3 Create AI Only Quarterly

Click **"Create subscription"** again:

Field	Value
Product ID	`ai_only_quarterly`
Name	AI Only Plan (3 Months - Save 20%)
Description	Unlimited AI English practice - Best value! Save ₺150

Base plan:

Field	Value
Base plan ID	`ai-only-quarterly-base`
Billing period	3 Months
Price (Turkey)	₺600.00

1.4 Create AI + Live Monthly

Field	Value
Product ID	`ai_plus_live_monthly`
Name	AI + Live Lessons (Monthly)
Description	Unlimited AI practice + 16 live classes per month with native teachers

Base plan:

Field	Value
Billing period	1 Month
Price (Turkey)	₺4,750.00
Free trial	7 days

1.5 Create AI + Live Quarterly

Field	Value
Product ID	`ai_plus_live_quarterly`

Name	AI + Live Lessons (3 Months - Save 20%)
Description	Best value! Unlimited AI + 16 live classes per month

Base plan:

Field	Value
Billing period	3 Months
Price (Turkey)	₺11,400.00

Step 2: Set Up Google Cloud Service Account

This is needed so your app can verify purchases are real.

2.1 Go to Google Cloud Console

1. Open: https://console.cloud.google.com
2. Select or create a project (use the same one linked to your Play Console)

2.2 Enable the Android Publisher API

1. Go to: **APIs & Services → Library**
2. Search for: `Google Play Android Developer API`
3. Click on it and click **Enable**

2.3 Create a Service Account

1. Go to: **APIs & Services → Credentials**
2. Click **Create Credentials → Service Account**
3. Fill in:
   - Name: `tomashoca-play-billing`
   - Description: `Service account for verifying Play Store purchases`
4. Click **Create and Continue**
5. Skip the role selection (click **Continue**)
6. Click **Done**

2.4 Create a Key for the Service Account

1. Click on the service account you just created
2. Go to the **Keys** tab
3. Click **Add Key → Create new key**
4. Select **JSON** format
5. Click **Create**
6. **SAVE THIS FILE SECURELY** - you'll need it in Step 3

2.5 Link Service Account to Play Console

1. Go back to **Google Play Console**
2. Go to: **Settings → Developer account → API access**
3. Find your service account in the list
4. Click **Grant access**
5. Set permissions:

    - **View app information and download bulk reports** ✓
    - **View financial data, orders, and cancellation survey responses** ✓
    - **Manage orders and subscriptions** ✓
6. Click **Invite user**
7. Accept the invitation

Step 3: Configure Supabase Environment Variables

3.1 Get Your Service Account Details

Open the JSON file you downloaded in Step 2.4. You need:

- `client_email` (looks like: `tomashoca-play-billing@yourproject.iam.gserviceaccount.com`)
- `private_key` (the long key starting with `-----BEGIN PRIVATE KEY-----`)

3.2 Add Environment Variables to Supabase

1. Go to: https://supabase.com/dashboard
2. Select your project
3. Go to: **Settings** → **Edge Functions**
4. Add these secrets:

Secret Name	Value
`GOOGLE_PACKAGE_NAME`	`com.tomashoca.english` (your app's package name)
`GOOGLE_SERVICE_ACCOUNT_EMAIL`	The `client_email` from your JSON file
`GOOGLE_PRIVATE_KEY`	The `private_key` from your JSON file (base64 encoded*)

To base64 encode the private key:

1. Copy the entire private key (including BEGIN and END lines)
2. Go to: https://www.base64encode.org
3. Paste the key and click Encode
4. Copy the result and use that as the value

3.3 Deploy the Edge Function

Run this command in your terminal:

```
npx supabase functions deploy verify-google-receipt
```

Or if using Supabase CLI:

```
supabase functions deploy verify-google-receipt
```

Step 4: Update the App to Accept Payments

The app currently shows "Coming Soon" on the pricing page. You need a developer to:

1. **Remove the waitlist modal** and enable actual checkout
2. **Add the Google Play Billing Library** to the Android app

3. **Test purchases** using test accounts

Key Files to Modify:

- `src/pages/Pricing.tsx` - Remove "Coming Soon" banner, enable purchase buttons
- `android/app/build.gradle` - Add billing library dependency
- Create new file for billing integration

For Testing:

1. In Play Console → **Settings** → **License testing**
2. Add your test Gmail accounts
3. These accounts can make purchases without being charged

Step 5: Testing Checklist

Before going live:

- ☐ All 4 subscription products are active in Play Console
- ☐ Service account is linked and has correct permissions
- ☐ Environment variables are set in Supabase
- ☐ Edge function is deployed
- ☐ Test purchase works with license tester account
- ☐ Subscription shows as active in the app after purchase
- ☐ Cancellation works correctly

Step 6: Go Live

Once testing is complete:

1. **Update the app version** in `android/app/build.gradle`
2. **Build a new AAB** file
3. **Upload to Play Console** → Release → Production
4. **Wait for review** (usually 1-3 days)

Pricing Summary

Product	Monthly	Quarterly
AI Only	৳250	৳600 (৳200/mo)
AI + Live	৳4,750	৳11,400 (৳3,800/mo)

Google's cut: 15% for first $1M/year, then 30% **Your revenue:** 85% of each purchase (for first $1M)

Revenue Projections

Subscribers	Plan	Monthly Revenue (Your Share)
10	AI Only	৳2,125 (~$65)

50	AI Only	৳10,625 (~$325)
100	AI Only	৳21,250 (~$650)
10	AI + Live	৳40,375 (~$1,235)
50	AI + Live	৳201,875 (~$6,175)

Troubleshooting

"Purchase token invalid"

- Check that the service account has correct permissions in Play Console
- Verify the package name matches exactly

"API not enabled"

- Make sure you enabled the Google Play Android Developer API in Google Cloud

"Service account not authorized"

- Go to Play Console → API access and verify the service account is linked
- Make sure you accepted the invitation

Purchases not reflecting in app

- Check Supabase logs for the edge function
- Verify the user_subscriptions table is being updated

Support Contacts

- **Google Play Help:** https://support.google.com/googleplay/android-developer
- **Supabase Support:** support@supabase.io
- **Developer:** [Your contact info]

Quick Reference: Product IDs

```
ai_only_monthly
ai_only_quarterly
ai_plus_live_monthly
ai_plus_live_quarterly
```

These MUST match exactly in:

1. Google Play Console
2. Your Android app code
3. The verify-google-receipt function

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