Deployment Guide: English Dictionary Website

1. GitHub Setup

  - Push full code to GitHub

  - Structure:

   /backend/

   /frontend/

   /mobile/

2. Railway Backend

  - Link GitHub

  - Set root: backend

  - Build: pip install -r requirements.txt

  - Start: python manage.py migrate && runserver 0.0.0.0:8000

3. Redis Plugin

  - Add Redis from Railway plugins

  - Copy REDIS_URL to .env

4. Vercel Frontend

  - Import from GitHub

  - Set root: frontend

  - Build: vite build

  - Output: dist

  - Add VITE_API_BASE_URL in environment variables

5. Custom Domain

- Set Hostinger DNS: ns1.vercel-dns.com / ns2.vercel-dns.com

- Confirm in Vercel > Domains

6. Email Support

- Use Hostinger SMTP

- EMAIL_HOST: mail.hostinger.com

- Set DEFAULT_FROM_EMAIL and password in .env

7. AI Tools

- AskGPT, Whisper, ElevenLabs controlled in ai_tools_config.json

- Admin dashboard allows toggling public or private per tool

8. Analytics Logging

- All user actions logged to analytics_log.json

- Analytics can be exported via admin panel

9. Admin Panel

- /AdminDashboard

- Controls: AI toggle, word manager, export, role system

10. Celery & Background Jobs

- Run: celery -A dictionary worker --loglevel=info

- Requires Redis running