Digital Dictionary

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https://digital-dictionary.onrender.com/



Problem Statement

Traditional dictionary platforms often lack contextual examples, pronunciation audio, and visual aids, making it difficult for users—especially non-native speakers—to fully understand and retain new vocabulary. Additionally, they offer little to no personalization features like history tracking or bookmarking, limiting their effectiveness as learning tools.

01

Lack of Contextual Understanding

02

Poor Pronunciation Guidance

O3
No Personalization



Digital Dictionary

Our solution is a dynamic, user-friendly Visual Dictionary web app built with Django. It integrates meanings, usage, pronunciation, synonyms, antonyms, and images in one platform, with features like history and bookmarks to enhance vocabulary learning.

O1. Interactive Platform

O2. Personalized Features

O3. Robust Backend



Contract the second of the

Custom User
Authentication

Built-in
Admin Panel

Why Django?





ORM Support

5 API Integration Friendly

Security &Scalability

Languages & Frameworks

Python, Django, HTML, CSS, JS, Bootstrap

Database

SQLite (dev), PostgreSQL (production)

Version Control & Deployment

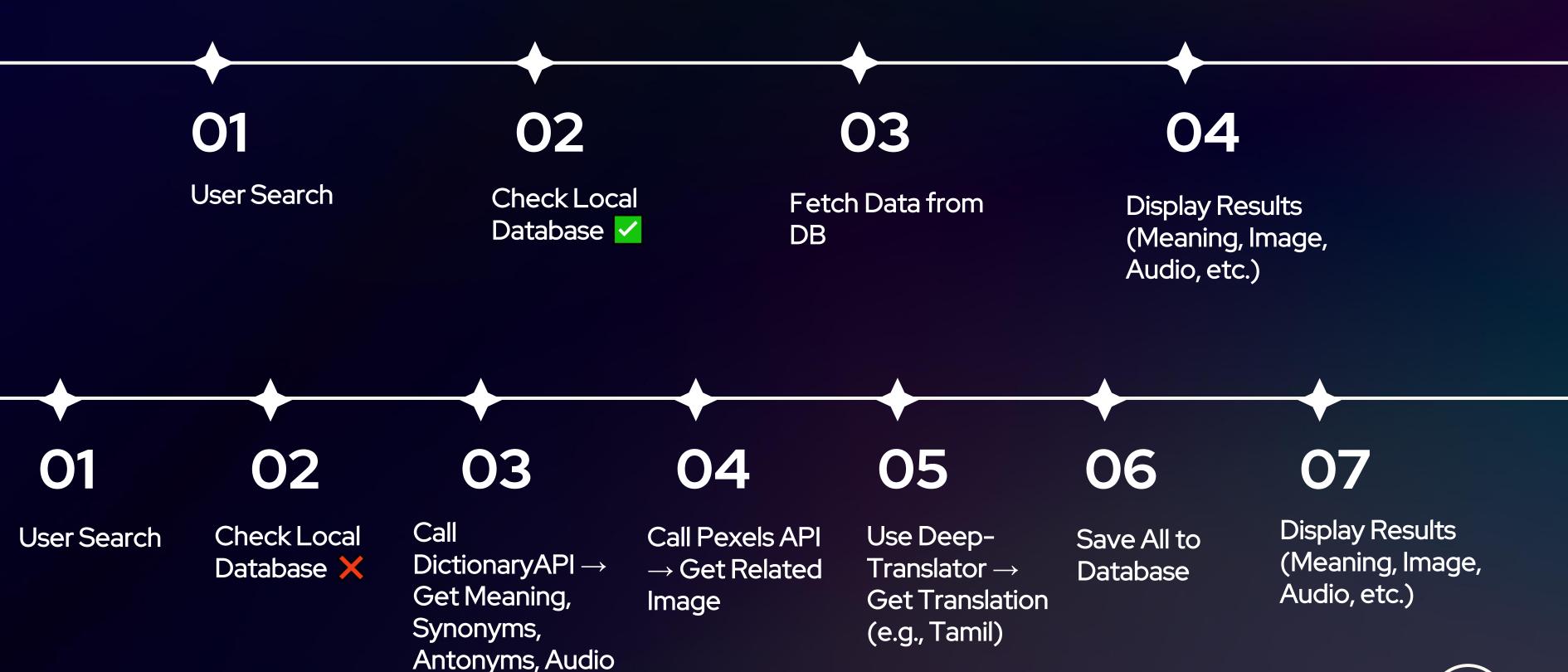
Git, GitHub, Render

Third-Party Integrations

DictionaryAPI.dev, Pexels API, Deep-translator



Workflow Process



Key Features

- Meaning
- Part of speech
- Synonyms & antonyms
- Example usage
- Pronunciation (audio)
- Related image

01

Custom User Model

02

Bookmarking

03

Word search history



Admin Dashboard

- Admin access using Django's built-in admin panel
- Add, edit, or delete:
 - Users
 - Word entries
 - Bookmarks
 - Search history



https://digital-dictionary.onrender.com/admin/

Future Scopes

- ✓ Multi-Language Support
- ✓ Speech-to-Text & Voice Search
- ✓ Al-Based Recommendations
- ✓ Offline Mode
- ✓ Mobile Application







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