

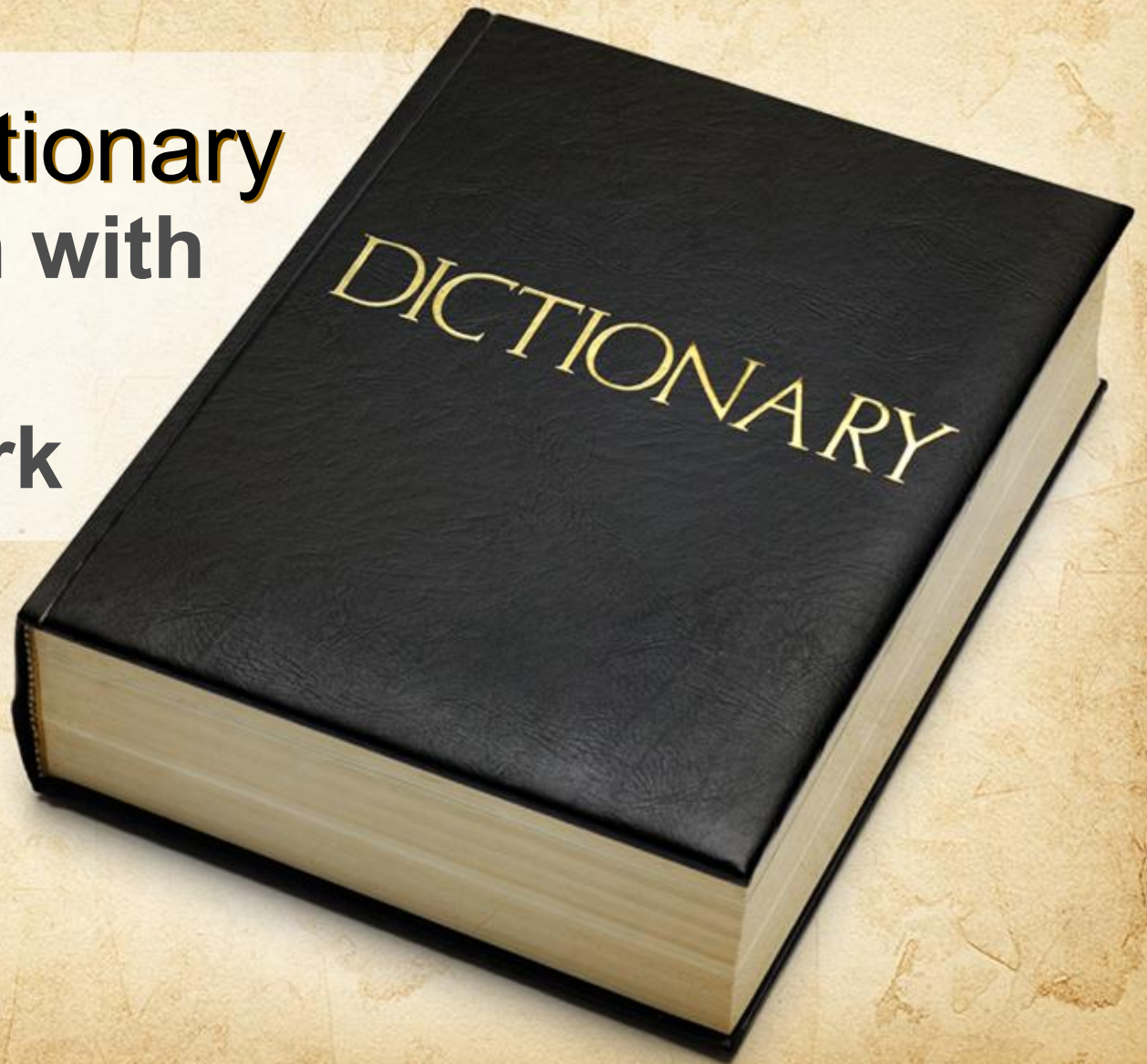


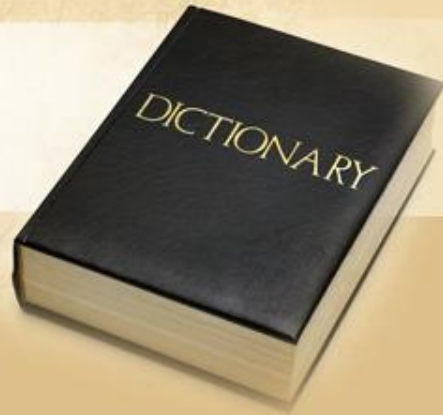
الجامعة الإسلامية العالمية شيتاغونغ
International Islamic University Chittagong

Dept. of Computer Science & Engineering

- **Semester:** 6th
- **Section:** 6AF
- **Course Code:** CSE-3638 + CSE-3640
- **Course Title:** Software Engineering & Software Development Lab

English Dictionary using Python with Django Framework





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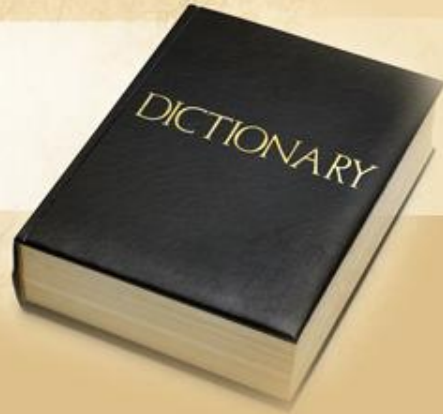
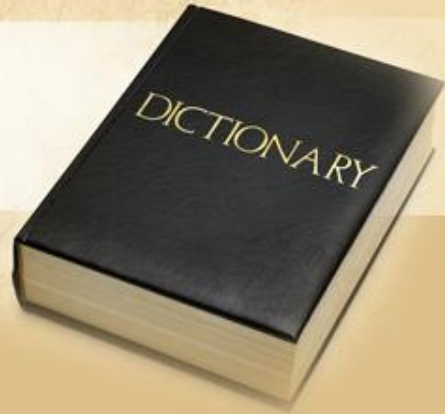


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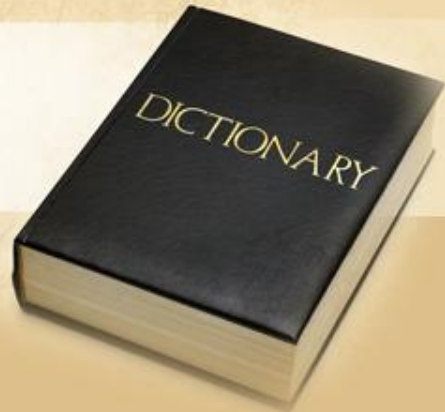


Introduction

- **What is Django?**

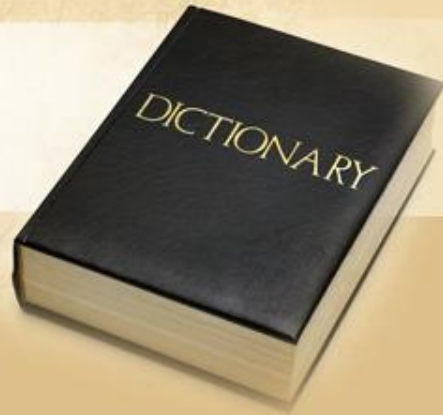
Django is a high-level Python web framework that enables rapid development of secure and maintainable websites.

The Django web framework is a free, open source framework that can speed up development of a web application being built in the Python programming language. It is used for backend web application.



Technology Description

- Python programming language
- HTML
- Django web framework
- PyDictionary module
- PyCharm
- Google Chrome for run the server



Developing Procedure

1. Creating new directory
2. Creating virtual environment
3. Activating virtual environment
4. Creating the project and application
5. Installing Django

```
Command Prompt
Microsoft Windows [Version 10.0.22621.1848]
(c) Microsoft Corporation. All rights reserved.

C:\Users\asus>cd documents

C:\Users\asus\Documents>mkdir dictionary

C:\Users\asus\Documents>cd dictionary

C:\Users\asus\Documents\dictionary>py -m venv venv

C:\Users\asus\Documents\dictionary>venv\scripts\activate.bat

(venv) C:\Users\asus\Documents\dictionary>pip install django
Collecting django
  Using cached Django-4.2.2-py3-none-any.whl (8.0 MB)
Collecting asgiref<4,>=3.6.0
  Using cached asgiref-3.7.2-py3-none-any.whl (24 kB)
Collecting sqlparse>=0.3.1
  Using cached sqlparse-0.4.4-py3-none-any.whl (41 kB)
Collecting tzdata
  Using cached tzdata-2023.3-py2.py3-none-any.whl (341 kB)
Installing collected packages: tzdata, sqlparse, asgiref, django
Successfully installed asgiref-3.7.2 django-4.2.2 sqlparse-0.4.4 tzdata-2023.3

[notice] A new release of pip available: 22.3.1 -> 23.1.2
[notice] To update, run: python.exe -m pip install --upgrade pip

(venv) C:\Users\asus\Documents\dictionary>python.exe -m pip install --upgrade pip
```

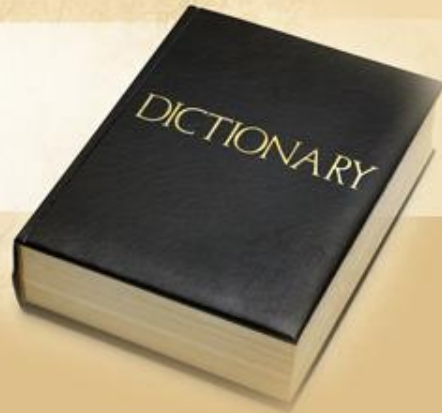
```
settings.configure() before accessing settings.).
```

```
(venv) C:\Users\asus\Documents\dictionary>django-admin startproject dictionary
```

```
(venv) C:\Users\asus\Documents\dictionary>cd dictionary
```

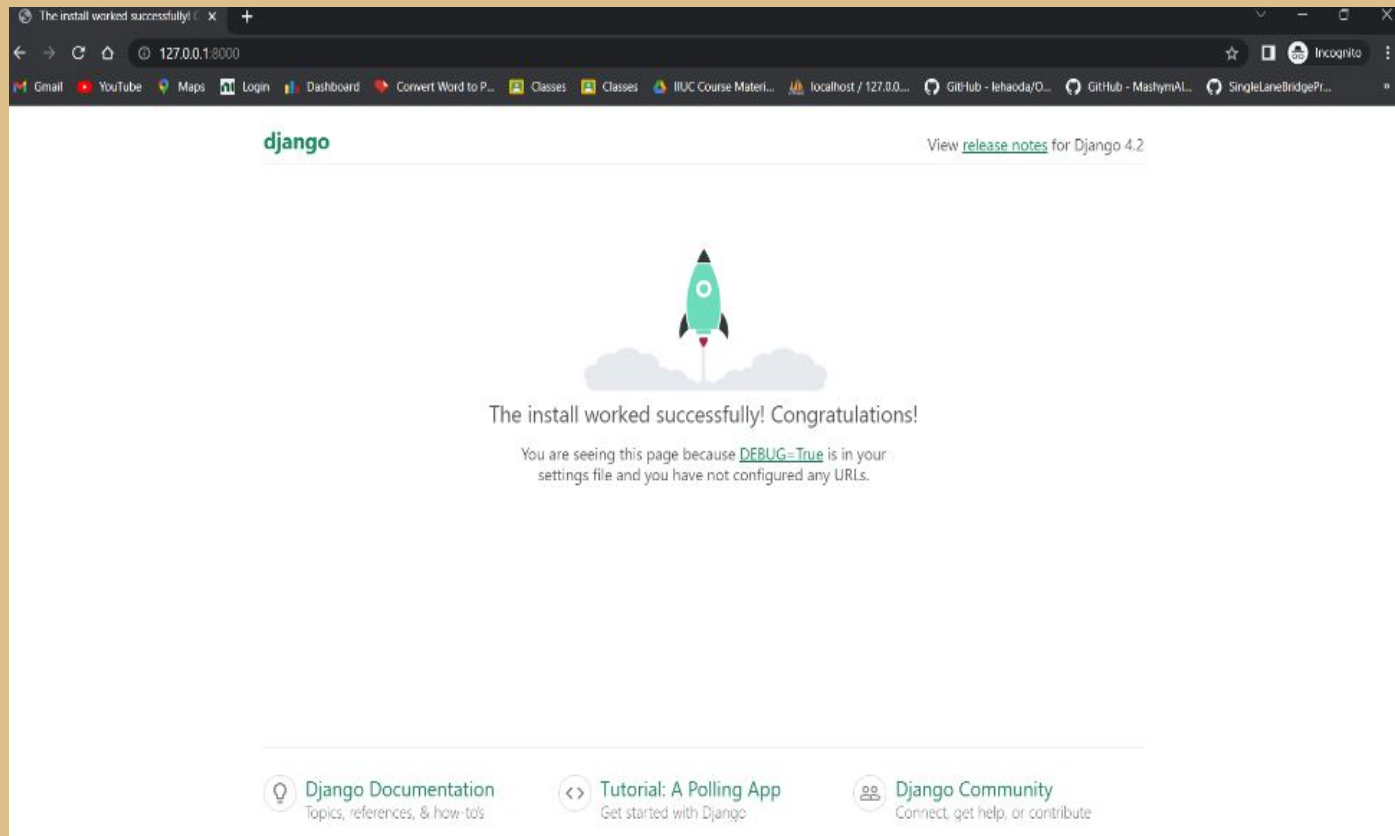
```
(venv) C:\Users\asus\Documents\dictionary\dictionary>python manage.py startapp englishdictionary
```

```
(venv) C:\Users\asus\Documents\dictionary\dictionary>
```

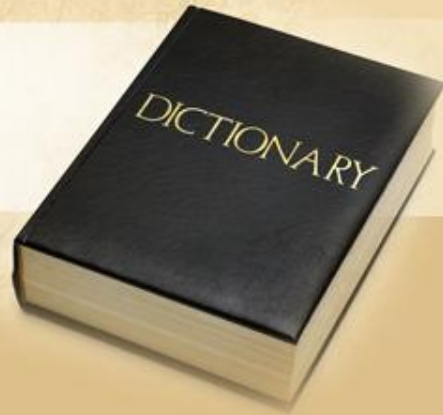


Developing Procedure

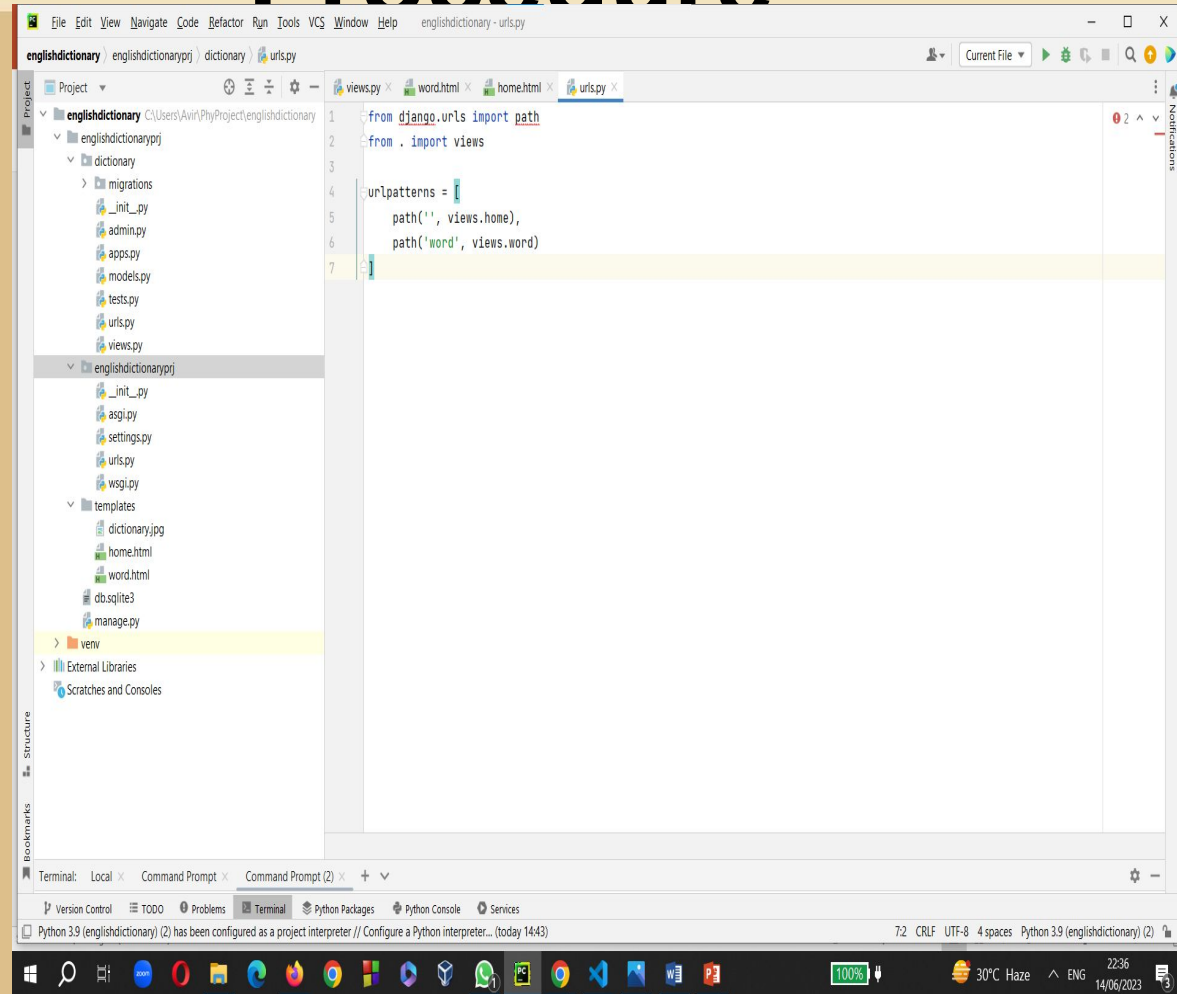
6. Successfully run server

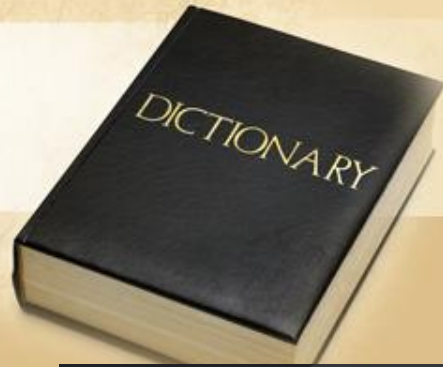


Developing Procedure



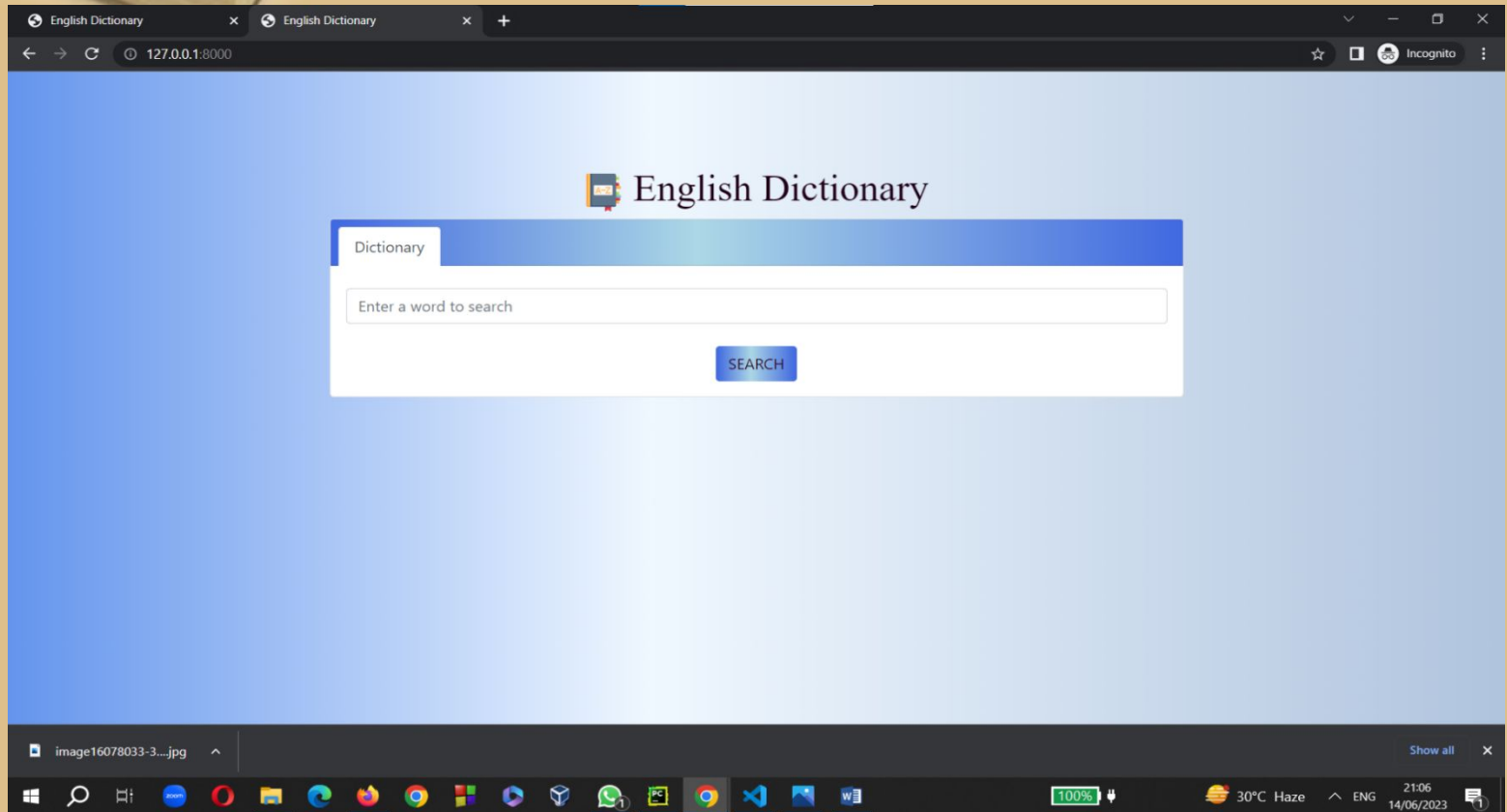
7. Setting up the App in the Project Folder
8. Configuring the App URLs
9. Creating Views
10. Creating the HTML Templates
11. Integrating the Word Search Functionality

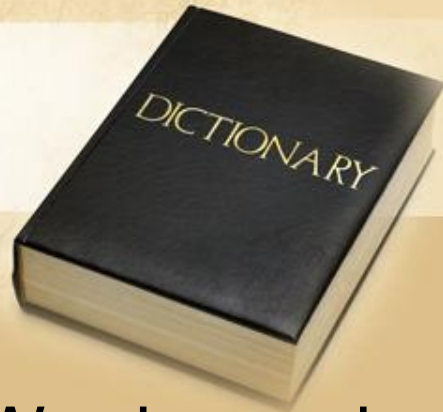




Results

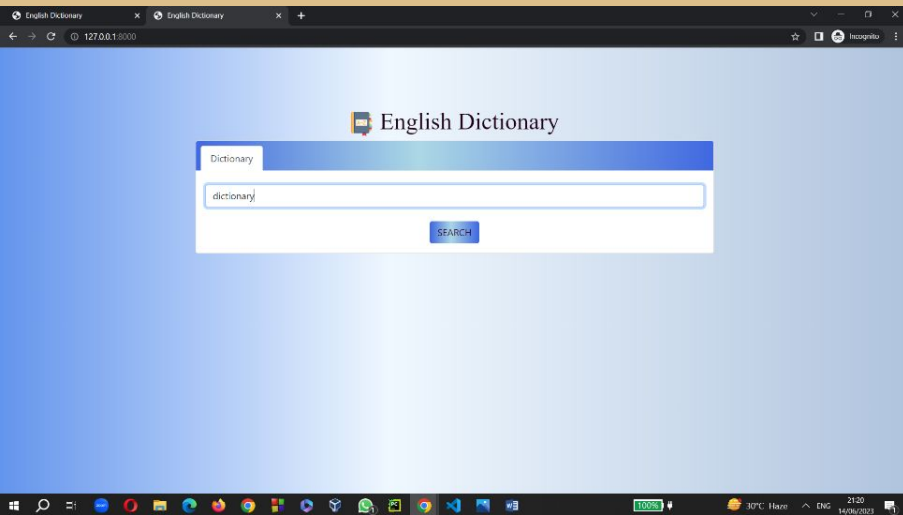
Home page



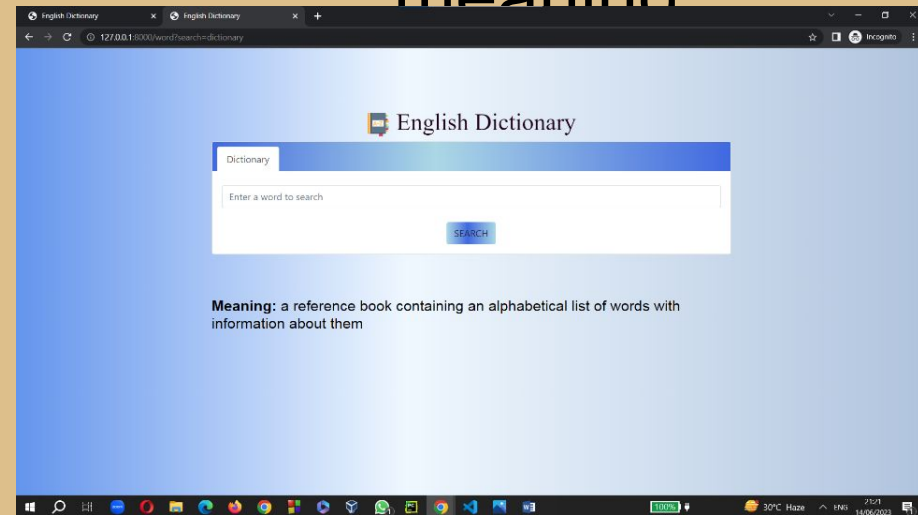


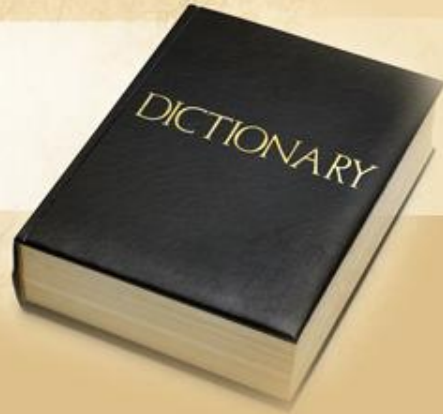
Result

- 1. Word search



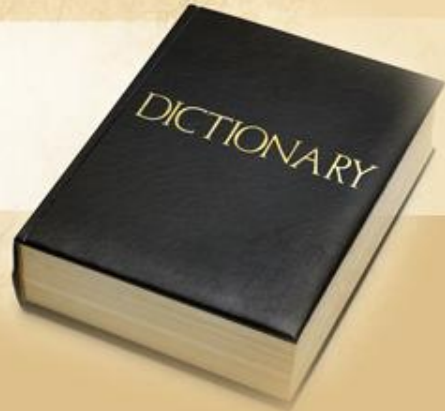
- 2. And Show the meaning





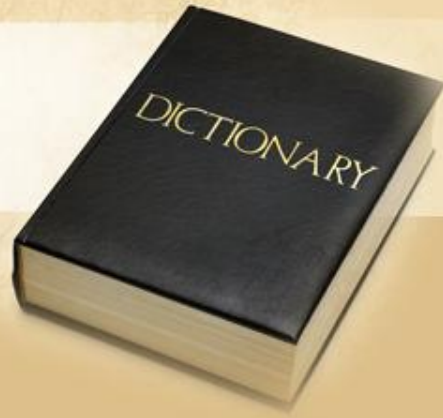
Limitations

- Inaccurate or outdated data can be displayed in the app, which can affect the user experience
- The app is designed to provide only the basic information about an English word, such as its meaning.
- The app is built for a small-scale project, and it might not be suitable for larger-scale applications.



Future Scope

- Advanced Search and Filtering.
- User Profiles and Customization.
- Audio Pronunciations.
- Mobile Applications and API Integration.
- Natural Language Processing Enhancements.



Thank You