Install Python3

Setup a virtual environment:

python3 -m venv Virtual

Activate the virtual environment:

source env/bin/activate

Install packages

pip install Django

Create Project

django-admin startproject Scoopcraft

Create Apps

python manage.py startapp Home

python manage.py startapp Mix\_Match

python manage.py startapp About

Make Migrations:

python3 manage.py makemigrations

Run Migrations:

python3 manage.py migrate

Run Server:

python3 manage.py runserver

Was not able to integrate the website with iOS or Third-party applications to create a mobile app but the architecture is present and fully functional on the website.

**Rationale for Choosing Client-Server Architecture:**

User-Interface Focus:

Websites built with Django often follow the Model-View-Controller (MVC) or Model-View-Template (MVT) architectural patterns, which align well with a client-server structure.

Simplicity and Clarity:

For web applications, a client-server architecture provides a straightforward and easy-to-understand approach. Django's request-response model aligns with this architecture, making it easier to work with.

Scalability and Maintainability:

Can be scaled by adding more server resources or using load balancers to distribute client requests among multiple server instances. This architecture is easier to maintain as it follows a more conventional and structured pattern.