Django for Web Development & AI

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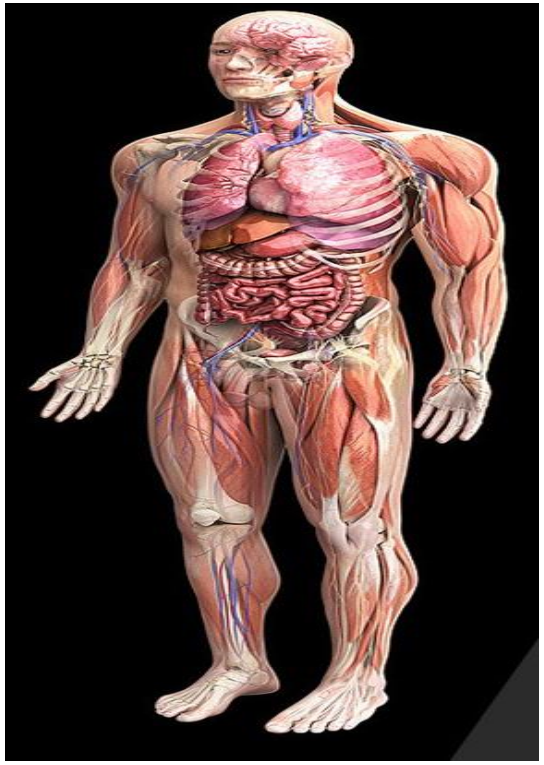
What is Web Design?

What is Web Development ?

What is Framework ?

Design Vs. Development



Design:

Web design refers to the design of websites that are displayed on the internet.

Requirement:

Development:

Web development refers to the creating, building, and maintaining of websites.

Ex:

Web Design Vs. Web Development

Web Design	Web Development
Web design is the customer facing part of the website.	Web development is the back-end of the website, the programming and interactions on the pages.
Web Designers are very creative.	Web Developers are more technical.
Web designers create the idea and style of a website, creating a mockup based on visual, UX, and UI features.	Web developers decide whether the concept is financially and technically feasible, and then only starts with further step of coding the site
The hiring cost of a web designer is comparatively less than a web developer.	The hiring cost of a web developer is more than a web designer.

Why Web Development?

- Career Opportunity
- Work Flexibility
- Be your own Boss
- Creative Field
- Salary Package

Why Python?

Python provides many useful features to the programmer. These features make it the most popular and widely used language.

- Easy to use and Learn
- Open-Source Language
- Object-Oriented Language
- Python has powerful development libraries
- Python for AI, ML, Data Analysis, etc.
- Python for Web Development

Frameworks

Flask
web development,
one drop at a time

dj

What is Django?

Django is a web application framework written in Python programming language. Django helps eliminate repetitive tasks making the development process an easy and time-saving experience.

File Edit Selection View Go Run Terminal Help

settings.py - StudyMart - Visual Studio Code

EXPLORER

STUDYMART

- aiquest
  - aiquest
    - __init__.py
    - asgi.py
    - settings.py
    - urls.py
    - wsgi.py
  - manage.py
  - env

settings.py

aiquest > aiquest > settings.py

```
24
25  # SECURITY WARNING: don't run with debug turned on in prod
26  DEBUG = True
27
28  ALLOWED_HOSTS = []
29
30
31  # Application definition
32
33  INSTALLED_APPS = [
34      'django.contrib.admin',
35      'django.contrib.auth',
36      'django.contrib.contenttypes',
37      'django.contrib.sessions',
38      'django.contrib.messages',
39      'django.contrib.staticfiles',
40  ]
```

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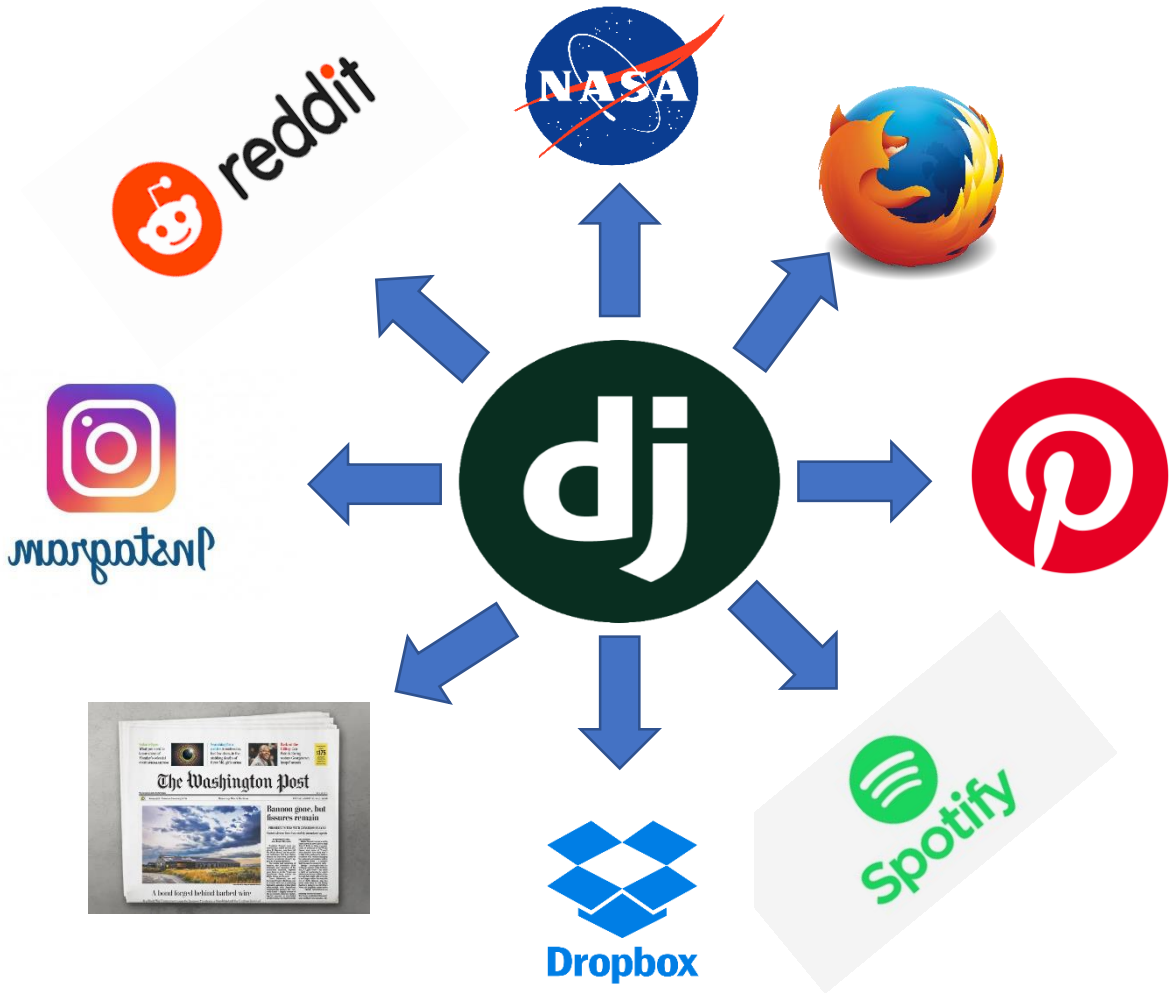
Django Framework!

Popular Websites Built With Django



Demands Of Django In Industry

As more and more popular applications such as Instagram, YouTube, Spotify, and Disqus, among others, have started using this framework in their businesses, there has also been a growing demand for Django developers.

Running Django Website: Django Market Share and Web Usage Statistics (similartech.com)

Is Django Valuable for Bangladesh?

New

Old

Top 10 Web Frameworks

Source: https://www.moweb.com/blog/top-web-development-frameworks

Django Vs. Flask

Django	Flask
Django is a full-stack web framework.	Flask is a lightweight framework.
Django is suitable for multiple page applications.	Flask is suitable for only single-page applications.
Django supports the most popular relational database management systems like MySQL, Oracle, SQLite3 etc.	Flask uses SQLAlchemy for database requirements.
Dynamic HTML pages supported.	Dynamic HTML pages not supported.
Django follows an object-oriented approach that enables object-relational mapping (linking databases and tables with classes)	Flask works on a modular approach that enables working through outsourced libraries and extensions.

Why does Django become Popular?

- Built With Python So Easy to Learn
- Cross-Platform
- Open Source and Huge Community Support
- Security
- Good Documentation

Django for Machine Learning & AI

Django is one of the most popular frameworks in the programming world that runs on one of the most versatile programming languages in the world - Python, it can be used for both web development and AI.

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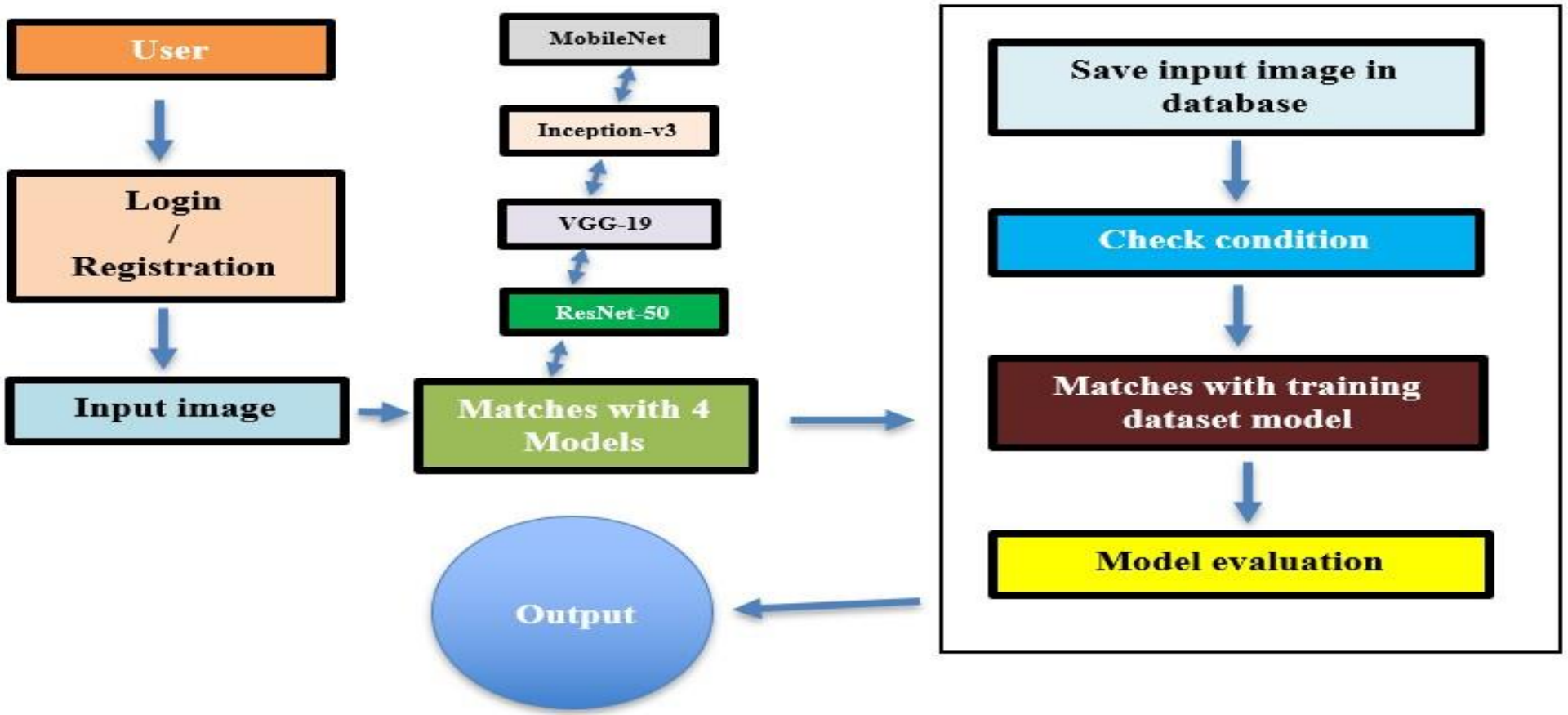
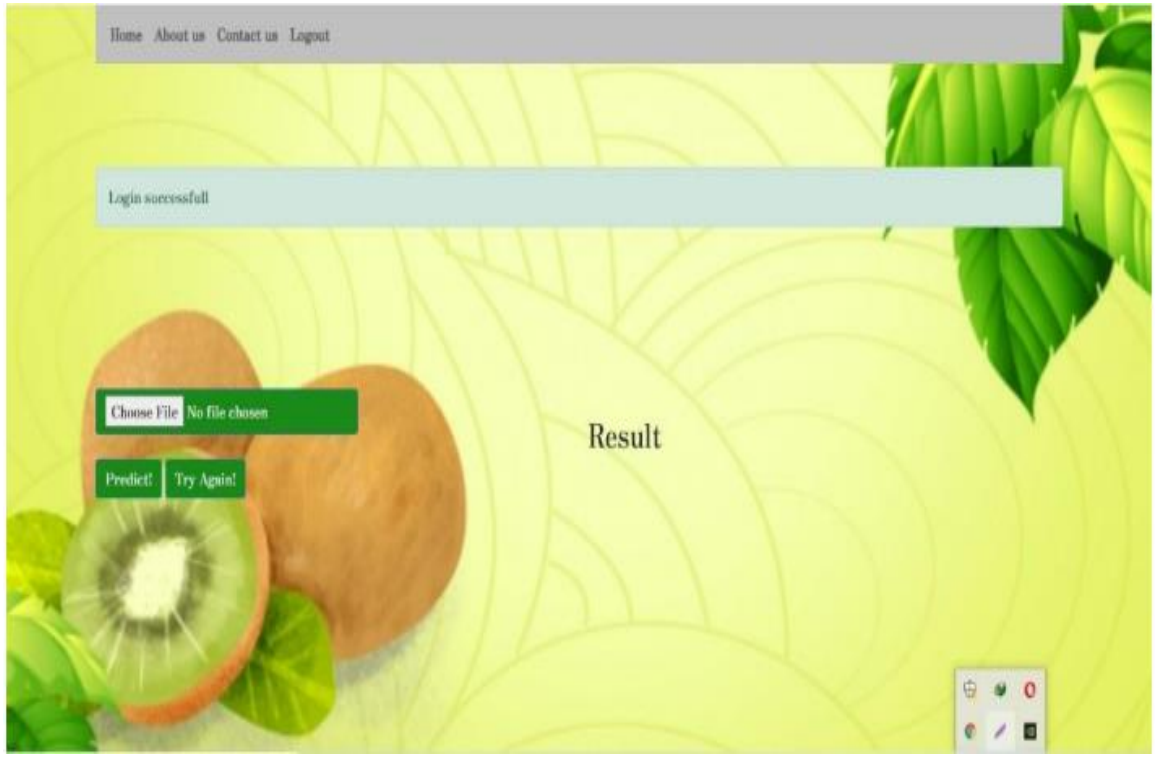
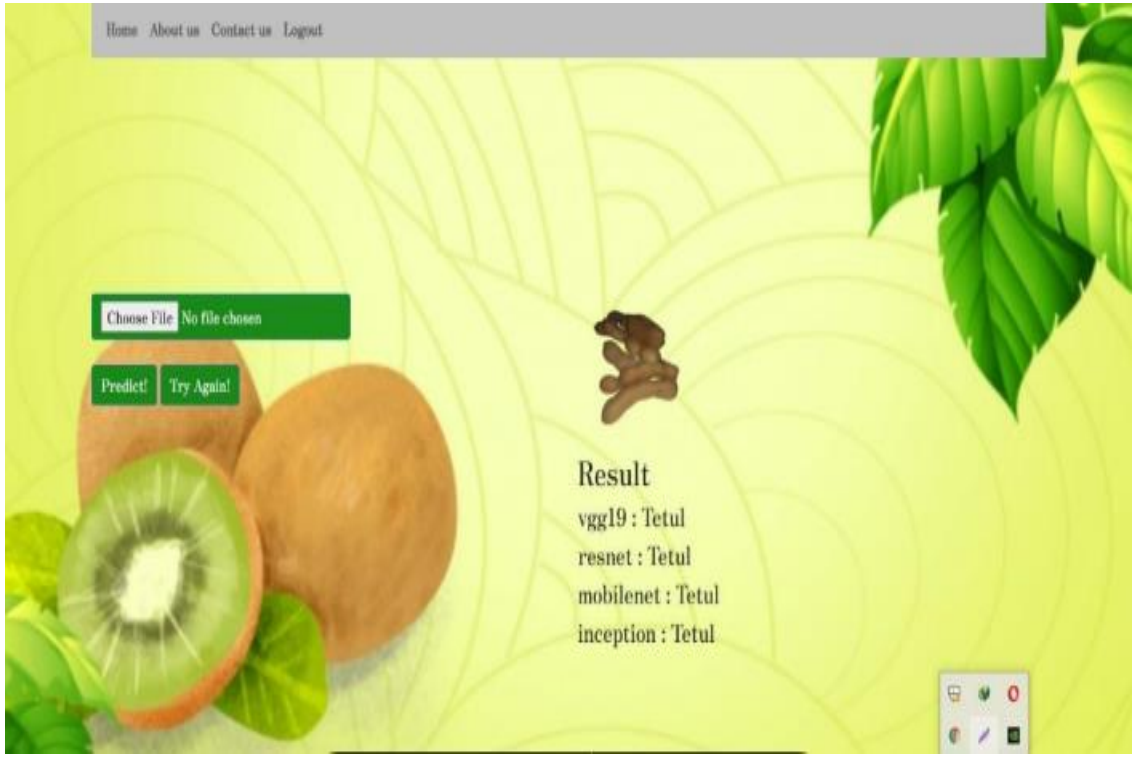
django

Django for Machine Learning & AI



Django for Machine Learning & AI





Job Responsibility for Django Developers

- ❑ Implement Python code using the Django framework.
- ❑ Identify and fix bugs.
- ❑ Manage the security of the platform.
- ❑ Keep clear documentation of the database setup and architecture.
- ❑ Design, build and maintain efficient, reusable, and reliable code.
- ❑ Ensure the best possible performance, quality, and responsiveness of applications.

Future & Jobs in Django

According to SimilarTech, there were 83,951 websites built with Django.

Our Full Course Plan:

Visit Website: www.aiquest.org