ArcGIS JavaScript Plus Django Equals Dynamic Web App

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Thanks

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Overview

- ArcGIS API for JavaScript
- The Django Framework
- Django Features
- Functionality via Django
- 1519GIS.com
ArcGIS JavaScript API
ArcGIS API for JavaScript

- Easily embed maps and tasks in web applications
- Supported in major browsers
- Optimized for mobile platforms
- Tons of samples and public apps available
- Integrated with ArcGIS Server Tasks
- Can be integrated with ArcGIS Online
- Easy to add widgets
- Supports HTML5 and CSS3
- Compatible with other JavaScript frameworks (jQuery)

https://developers.arcgis.com/javascript/
Example JavaScript Apps

- **Esri's Application Boilerplate**
  - Live Demo:
  - Download from GitHub:
    - [https://github.com/Esri/application-boilerplate-js](https://github.com/Esri/application-boilerplate-js)

- **Esri's Basic Viewer App**
  - Live Demo:
  - Download from GitHub:
    - [https://github.com/Esri/basic-viewer-template](https://github.com/Esri/basic-viewer-template)
Plus Django
The Django Framework

High-level Python Web framework
Follows the model–view–controller (MVC) architectural pattern
Encourages rapid development and clean, pragmatic design
Open Source
Django Powered Sites

Currently used by over 4600 websites!

Some that you probably know:

- Instagram
- Mozilla
- Pinterest
- National Geographic
- OpenStack
Simply put, MVC is way of developing software so that the code for defining and accessing data (the model) is separate from request-routing logic (the controller), which in turn is separate from the user interface (the view).

- The Django Book

- The idea is to maintain a loose coupling between the various components.

- The Django Web Application is split across at least 4 components:
  1. models.py (Model)
  2. views.py (View)
  3. urls.py (Controller)
  4. html_template.html (HTML Templates)
Django Features

- Database Abstraction
- Pretty URL's
- Platform Independence
- Theme Separation
- Built-in Admin Interface
- Tested Modules (user authorization, session protection, and more)
- Cache System
- International Support
- Development Web Server
Increased Functionality Enabled by Django

- Implement user-based authentication and authorization
- Automatically generate and send emails/texts to registered users and admin staff
- Export feature attributes to a downloadable csv file
- Turn functionality on and off for individual sites/users
- Secure ArcGIS Server Services and static files
- Create related geometry features
- Create user/site specific traffic logs and maintain history
- Store user-specific bookmarks in maps (future)
1519 GIS Demo
THANKS FOR ATTENDING

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