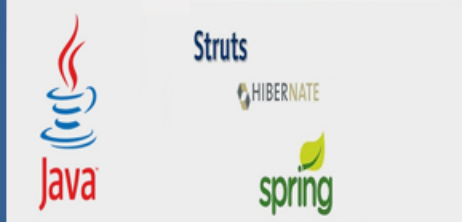


Compare of Django and SSH

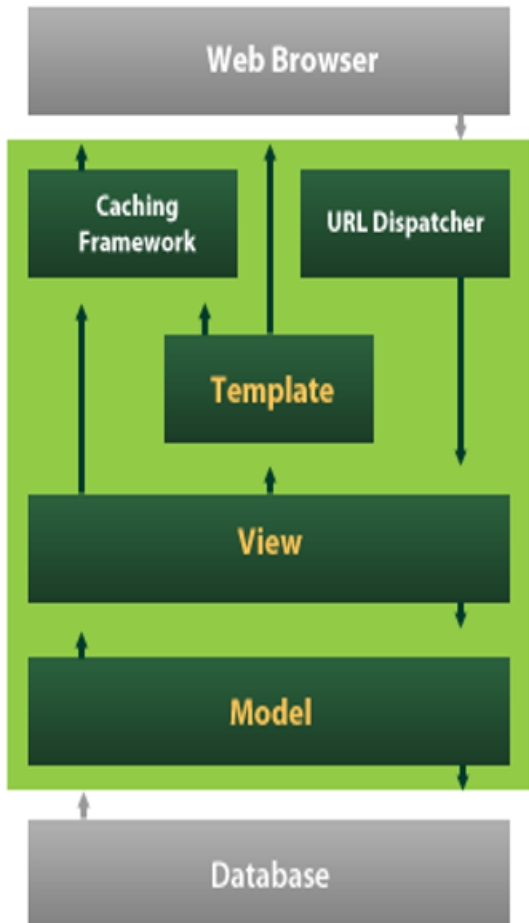
django

Group: Seven Dwarves

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Django



- 1.The URL dispatcher(urls.py) maps the requested URL to a view function and calls it.
- 2.The view function(usually in views.py) performs the requested action, which typically involves reading or writing to the database.
- 3.The model(usuall in models.py) defines the data in Python and Interacts with it.
- 4.After performing any requested tasks,the view returns an HTTP response object to the web browser.
- 5.Templates typically return HTML pages. The Django template language offers HTML authors a simple-to-learn syntaxwhile providing all the power needed for presentation logic.

The Advantages of Django

Fast: This has been designed in a way to help the developers make an application as fast as possible. From idea, production to release, Django helps in making it both cost effective and efficient.

Fully Loaded: It works in a way that includes dozens of extras to help with user authentication, site maps, content administration, RSS feeds and much more such things. These aspects help in carrying out the web development process completely.

Secure: When you are doing it in Django, it is ensured that developers don't commit any mistakes related to security.

Scalable: To meet the heaviest traffic demand, the benefits of Django framework can be seen. Therefore, the busiest sites use this medium to quickly meet the traffic demands.

Versatile: Content management, scientific computing platforms, and even big organizations, all these aspects are very efficiently managed by the use of Django.

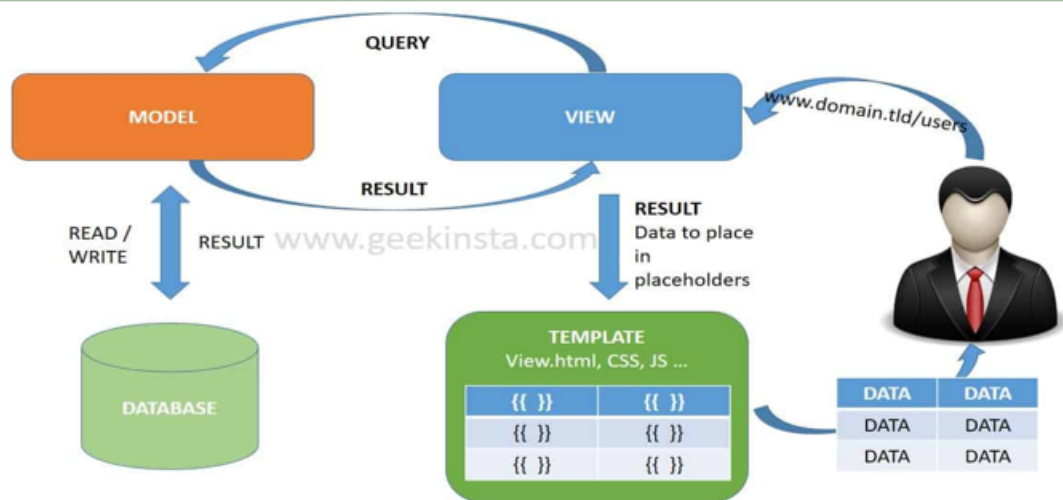
The Advantages of SSH

Good scalability: The mainstream technology of SSH has a strong user community to support it, so the framework is highly extensible and pluggable for special applications to avoid most functions that cannot be realized due to technical problems.

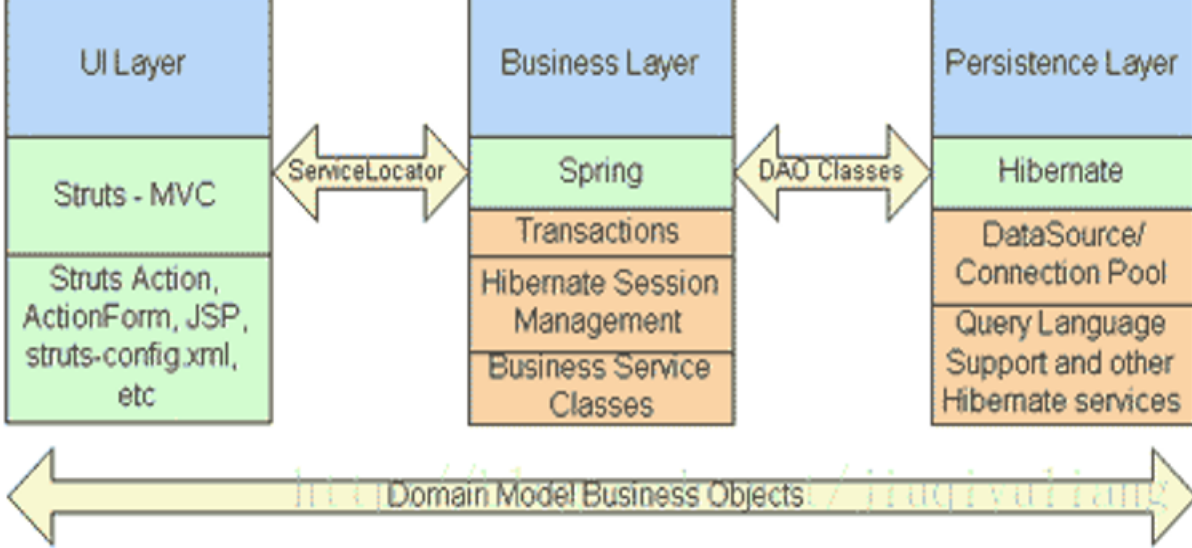
Good maintainability: the business system often has new requirements, the three-tier architecture can minimize the risk of requirement modification due to the reasonable separation of the logic layer and the presentation layer.

Excellent decoupling:Control depends on the business logic layer, but is not coupled to any particular business logic component, only to the interface.Similarly, the business logic layer relies on the DAO layer and does not couple any particular knife components, but interface-oriented programming implements software in this way, even if part of the software changes and the rest does not.

MVT DESIGN PATTERN



SSH



The aforementioned SSH framework set is a good counterpart to the development and use of the MVC pattern. This integration of the three major frameworks of Struts + Hibernate + Spring fits the three-layer object of the MVC pattern. Among them, Struts corresponds to the control layer of the front desk, while Spring is responsible for the business logic processing of entity beans, while Hibernate is responsible for the handover of the database and the use of Dao interface to complete the operation.

The Disadvantages of Django

Over-encapsulation: Many classes and methods are encapsulated, making it easier to use directly, but harder to change.

Performance disadvantage: Compared with C and C++, Django has low performance, which is a feature of python. Other python frameworks have the same problem when it comes to traffic.

Too Tightly-Coupled Components: Python is a language which keeps its components tightly coupled. This feature of the language makes it difficult for the programmers to efficiently develop a website or an application.

Dependency on ORM System: The ORM system is efficient in helping the developers to maintain multiple databases and perform operations on them at the same time. But too much dependency on this system leads to the absence of robust features like the availability of SQL toolkit – SQLAlchemy.

The Disadvantages of SSH

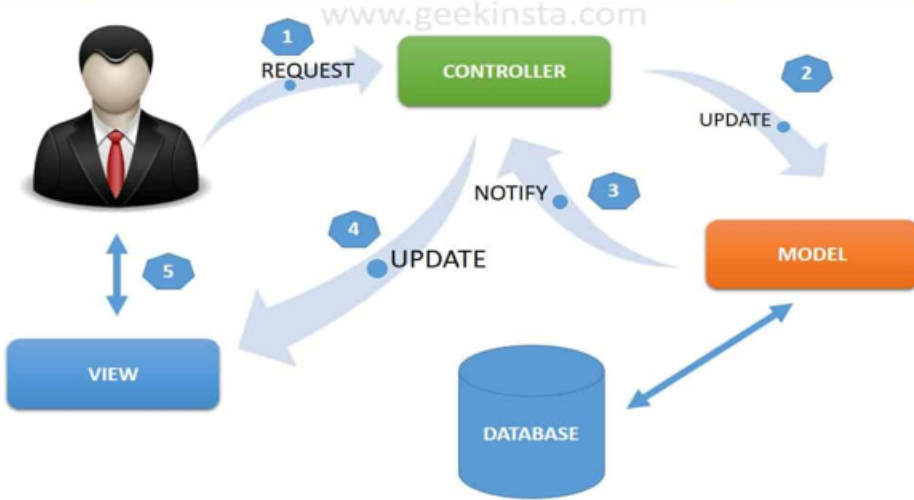
There is a lot of code to write in JSP, the controller is too flexible, and it lacks a common controller.

It is not suitable for batch operation of data (add, delete, look and change for a single object).

Reliance on servlets is too strong. Struts must rely on ServletRequest and ServletResponse to handle actions, so it cannot get away from the Servlet container.

Because Hibernate is too flexible, there are multiple solutions to a problem, so it is less efficient.

MVC DESIGN PATTERN



Conclusions

1. The Django framework is much more popular than the SSH framework.
2. The Django framework implements more flexibility than the SSH framework.
3. The SSH framework is based on the Java programming language, and the Django framework is based on the python programming language.
- 4.Django has a powerful database access component. Django's Model layer comes with a database ORM component, so that developers can operate the database without learning the SQL language. But SSH requires a high level of familiarity with database statements.
5. Django is a Python Web framework for perfectionists with development time constraints. Django provides a fully functional model-view-controller framework. It is developed on a built-in battery approach (Django comes with a full suite of tools that work right out of the box), enabling developers to create Web sites without third-party libraries and tools. Therefore, the development of SSH framework is more complex and time-consuming.

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