

Model View Controller

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** Slides influenced by the textbook, W3C, & TutorialsPoint

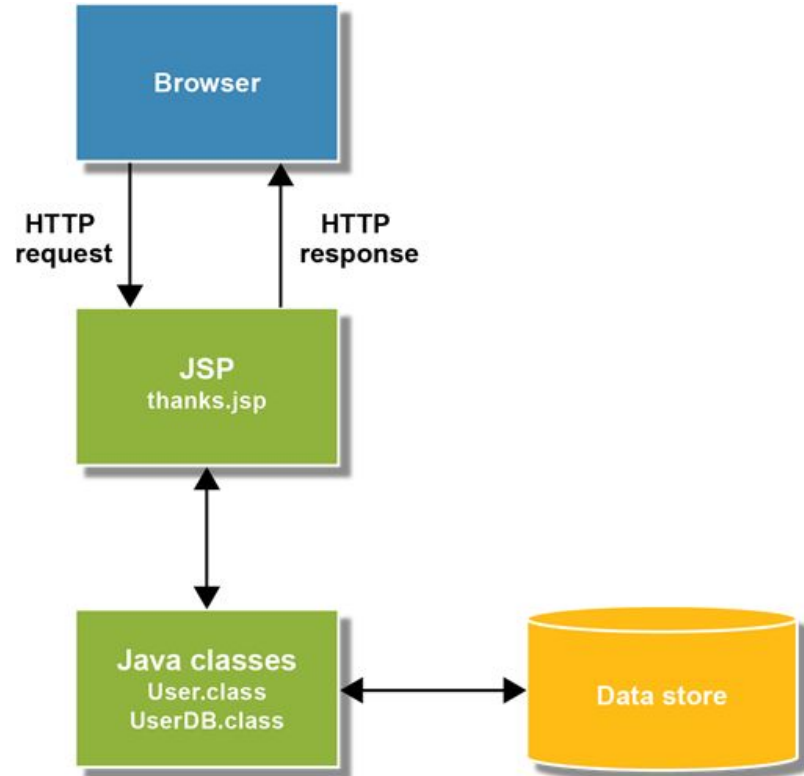
MVC: Framework for Web Apps

The View is the parts of the application that handles the display of the data.
Most often the views are created from the model data.

The Controller is the part of the application that handles user interaction.
Typically controllers read data from a view, control user input, and send input data to the model.

The Model is the part of the application that handles the logic for the application data.
Often model objects retrieve data (and store data) from a database

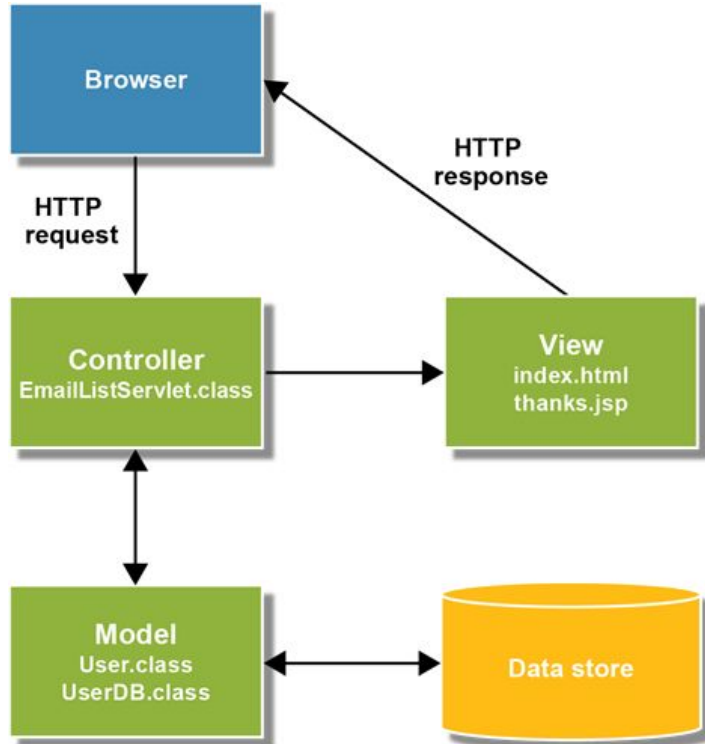
MVC: Model 1 Pattern



JSPs handle all of the processing and presentation for the app.

Generally - not the best practice

MVC: Model 2 Pattern



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Types of Files in MVC Pattern

- An HTML file contains tags that define the content of the web page.
- A CSS (Cascading Style Sheet) file contains the formatting for the web pages.
- Servlets contain Java code for a web application. When a servlet controls the flow of the application, it's known as a controller.

Types of Files in MVC Pattern

- The web.xml file, or deployment descriptor (DD), describes how the web application should be configured when it's deployed.
- A JavaBean, or bean, is a Java class that (1) provides a zero-argument constructor, (2) provides get and set methods for all of its instance variables, and (3) implements the Serializable or Externalizable interface.
- A JavaServer Page (JSP) consists of special Java tags such as Expression Language (EL) tags that are embedded within HTML code. An EL tag begins with a dollar sign (\$).