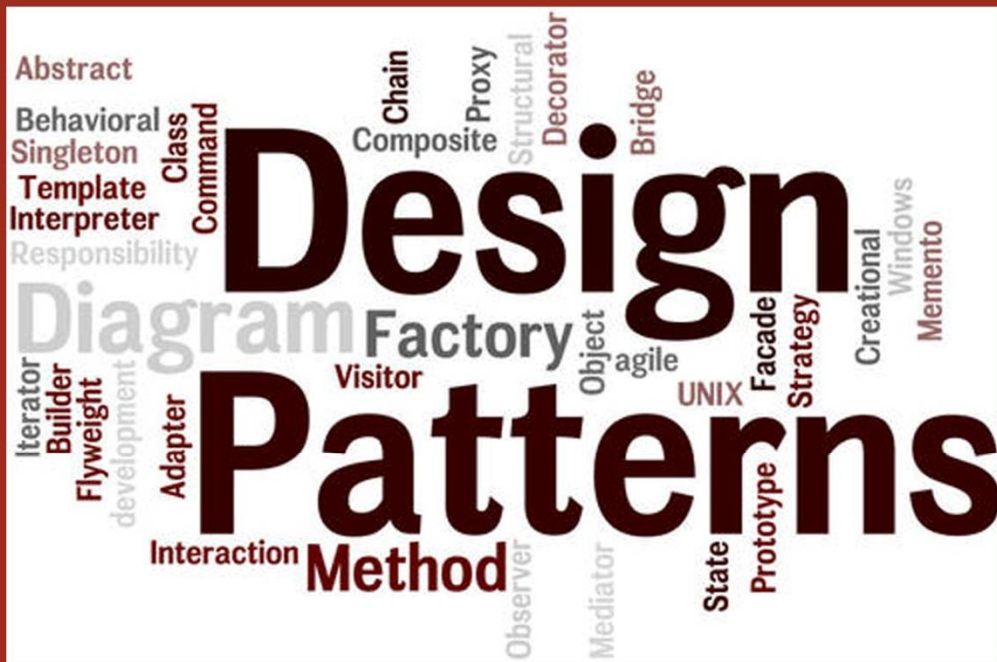


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Design Patterns

Web Level Design Patterns

3.Composite View Design Pattern



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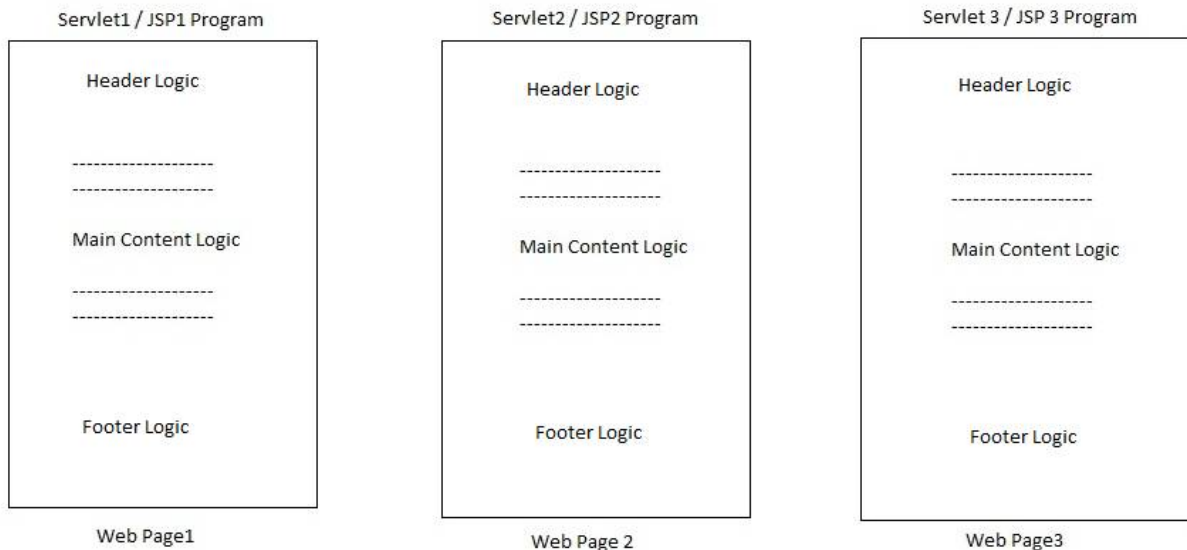
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Composite View Design Pattern

Problem: In real world application web pages present content from numerous data sources, using multiple subviews that comprise a single display page. The web pages are built by embedding formatting code directly with each atomic view. Atomic portion of the view content changes frequently, modification to the layout of multiple view is difficult and error prone when subviews are directly embedded and duplicated in multiple views. Embedding frequently changing portions of template text directly into views also potentially affects the availability and administration of the system. The server may need to be restarted before clients see the modifications or updates to these template components.

For example, let us assume a web application contains multiple web resources (pages) we generally kept some header and footer part in each web resources of web application. But it prevents the reusability of Header & Footer logic.



Solution: The solution to this problem is to use composite views that are composed of multiple atomic subviews. Each component of the template may be included dynamically into the whole and the layout of the page may be managed independently of the content.

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This solution provides for the creation of a composite view based on the inclusion and substitution of modular dynamic and static template fragments. It promotes the reuse of atomic portions of the view by encouraging modular design. It is appropriate to use a composite view to generate pages containing display components that may be combined in a variety of ways. The layout of the page is managed and modified independent of the subview content.

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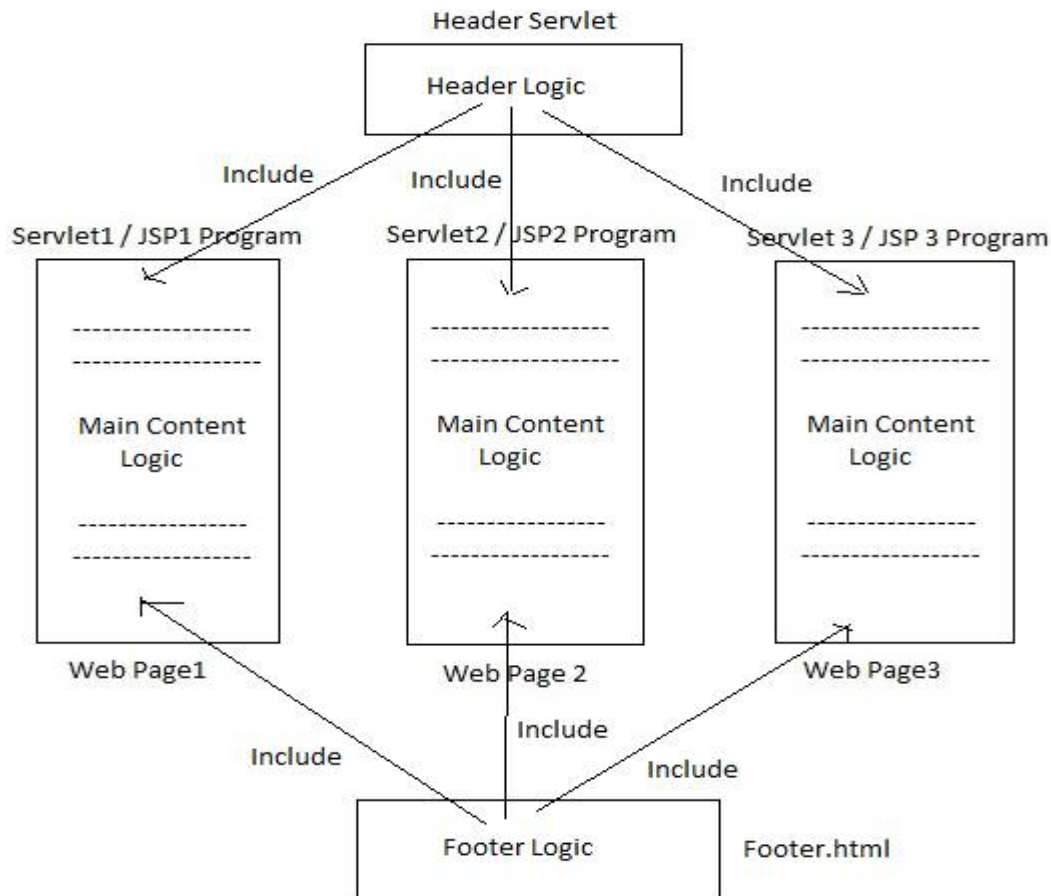
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Another benefit of this pattern is that Web designers can prototype the layout of a site, plugging static content into each of the template regions. As site development progresses, the actual content is substituted for these placeholders.

The Composite View design pattern says instead of hard coding them in web resource program, it is recommended to maintain them in separate web resource programs for **reusability** and include them dynamically in main web resource program.

Ex: For above given problem we can provide the solution as follows by using the Composite view design pattern by working with `rd.include(-,-)` or `<jsp:include >` action tag or `<%@include %>` directive tags.

Note: It is recommended that use `rd.include(-,-)` or `<jsp:include >` action tag to include the dynamic content and similarly use `<%@include %>` directive tag to include the static content.



In this solution both Header and Footer logics are reused and included dynamically.

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