
Java EE Design Patterns

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MVC - Demo

Setup

- Model - Pure application data. No logic (objects)
- View - Presents the model's data to the user
- Controller - Exists between the model and the view. Listens to the view for events

Advantages

- Multiple developers can work at the same time on the model, controller, and views
 - Logical grouping of related actions (controller) and views for a model
 - Model can have multiple views
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Business Delegate - Demo

<https://www.geeksforgeeks.org/business-delegate-pattern/>

Setup

- Business Delegate - An entry point class for client entities to provide access to Business Service methods
- LookUp Service - Get business implementation and provide object access to delegate
- Business Service - Actual logic

Advantages

- Business Delegate reduces coupling between presentation client and Business Services
 - The Business Delegate hides the underlying implementation details of the Business service
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Data Access Object (DAO) - Demo

Setup

- <https://www.geeksforgeeks.org/data-access-object-pattern/>

Advantages

- Separation of concerns between business logic and accessing the database
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Front Controller - Demo

Setup

- Upon sending a request, the Front Controller is the first controller it reaches. Based on the request, it decides which controller to handle it. It will pass the request to that controller.

Advantages

- Centralized control - Handles all requests in one place. Avoids multiple controllers and code having to implement security or user tracking.
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Intercepting Filter

Setup

- <https://www.geeksforgeeks.org/intercepting-filter-pattern/>

Advantages

- Improved reusability - pluggable components
 - Increased flexibility - generic common components can be applied/removed as needed
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Data Transfer Object (DTO) - Demo

Setup

- Used to separate low level data accessing between classes.
- <https://www.geeksforgeeks.org/data-access-object-pattern/>
- Business Object - Value Object

Advantages

- Separating two important parts of the application - data accessing and data using (transferring)

Thank You

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