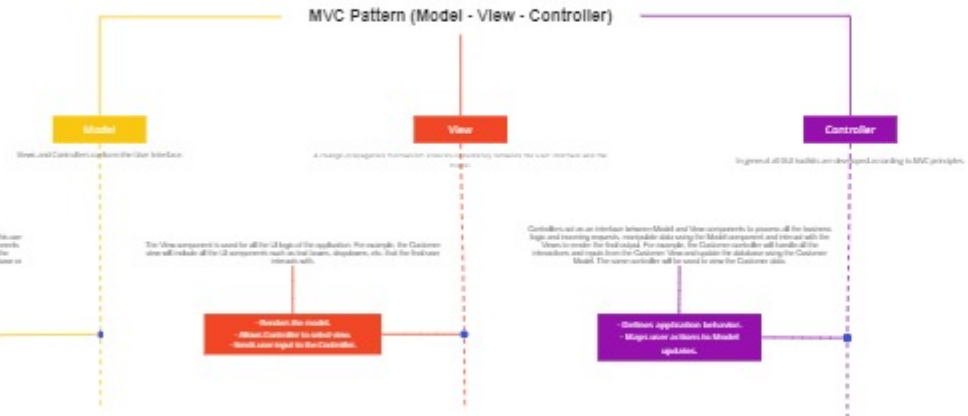




The Model-View-Controller (MVC) is an architectural pattern that separates an application into three main components: the model, the view, and the controller. Each of these components is responsible for handling specific development aspects of an application. MVC is one of the most frequently used industry standard web development frameworks to create scalable and maintainable projects.

MVC Pattern (Model - View - Controller)



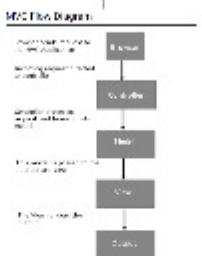
The Model component represents all the data-related logic that the user works with. This component often handles data that is being processed between the View and Controller components. For example, a Customer object will return for customer information from the database, manipulate it, and update it back to the database as user it to order data.

The View component is used for all the UI logic of the application. For example, the Customer view will include all the UI components such as text boxes, dropdowns, etc. that the Customer interacts with.

Controller acts as an interface between Model and View components to process all the business logic and handling requests. For example, the Customer controller will handle all the interactions and inputs from the Customer. When a request for database using the Customer Model. The same controller will be used to view the Customer data.

Model: data model.
When Controller is asked what data to return, it will return data to the Controller.

Controller: application logic.
When user interacts with the Model, the Controller will handle the logic.



Flow Steps

- Step 1 - The client browser sends request to the MVC Application.
- Step 2 - Global.asax receives this request and performs routing based on the URL of the incoming request using the RouteTable, RouteData, URoutingModule and MvcRouteHandler objects.
- Step 3 - This routing operation calls the appropriate controller and executes it using the IControllerFactory object and MvcHandler objects Execute method.
- Step 4 - The Controller processes the data using Model and invokes the appropriate method using ControllerActionInvoker object.
- Step 5 - The processed Model is then passed to the View, which in turn renders the final output.

Model: Role
The Model represents all the Model classes, which are used to work on application data. Some examples for Model classes include: Account, Customer, Product, etc. The Model classes are responsible for handling the data and logic of the application. The Model classes are responsible for handling the data and logic of the application.

View: Role
The View represents all the View classes, which are used to display application data. Some examples for View classes include: AccountView, CustomerView, ProductView, etc. The View classes are responsible for displaying the data and logic of the application. The View classes are responsible for displaying the data and logic of the application.

Controller: Role
The Controller represents all the Controller classes, which are used to handle application logic. Some examples for Controller classes include: AccountController, CustomerController, ProductController, etc. The Controller classes are responsible for handling the data and logic of the application. The Controller classes are responsible for handling the data and logic of the application.

The component Model is responsible for managing the data of the application. It responds to the request from the view and also responds to instructions from the controller to update itself. Model classes can either be created manually or generated from database tables.

As seen in the initial introductory chapters, View is the component interact with the application's User Interface. These Views are generally divided into the model data and logic view, such as text boxes, labels, etc. In the MVC Application, the View and Controller interact with the data in the first step. For rendering these data, the Controller is responsible for rendering the data in the first step. For rendering these data, the Controller is responsible for rendering the data in the first step.

Route Engine - Route is a mapping system that enables the server side (C# or VB) code into web pages. This server side code can be used to generate content when the web page is being loaded. Route is an advanced engine or compared to ASP.NET engine and is based on the MVC Framework.

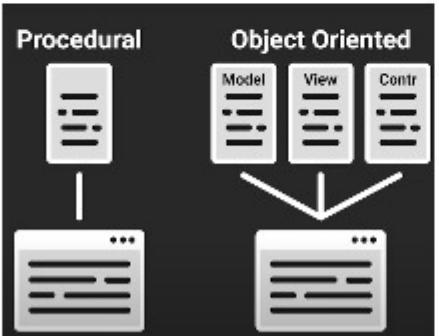
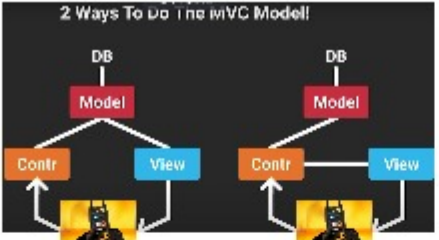
Controllers are responsible for controlling the flow of the application execution. When you make a request (means request a page) to MVC application, a controller is responsible for returning the response to that request. The controller can perform any or more actions. The controller can return different types of action results to particular request.



When you create an MVC application, you're creating a system where you can scale your application. The MVC pattern is a design pattern that is used to create scalable applications. The MVC pattern is a design pattern that is used to create scalable applications.



Object-oriented programming (OOP) is a programming paradigm that is based on the concept of objects. The MVC pattern is a design pattern that is used to create scalable applications. The MVC pattern is a design pattern that is used to create scalable applications.



- <https://www.youtube.com/watch?v=50K0e5CvY3k>
- <https://github.com/microsoft/aspnetcore/blob/main/src/Mvc/MvcApplication.cs>
- <https://docs.microsoft.com/en-us/aspnet/core/mvc/controllers/actions?view=aspnetcore-5.0>

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