

Web Development

C# and .Net

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| --- | --- | --- | --- |
| Sr No. | Topic | Date | Page No. |
|  |  |  |  |
| 1 | Introduction to Web Development |  |  |
| 2 | Web API Project |  |  |
| 3 | Building Web API |  |  |
| 4 | Action Method Response (HTTP Status Code etc.) |  |  |
| 5 | Security (CORS, Authentication, Authorization, Exception, JWT token etc.) |  |  |
| 6 | HTTP Caching |  |  |
| 7 | Versioning |  |  |
| 8 | Use of Swagger |  |  |
| 9 | Use of POSTMAN |  |  |
| 10 | Deployment |  |  |

Table of Contents

Introduction to Web Development

* ASP .NET provides followed frameworks :

ASP.NET MVC

ASP.NET Web API

ASP.NET Web Pages

ASP .NET Web Pages

It combines the code of html, css, javascript & server code in c#. "Server code" typically refers to the programming code that runs on a server to handle various tasks, processes, and requests from clients. In the context of web development, server code is responsible for processing and responding to requests sent by users' browsers.

It is single page application.

ASP .NET MVC

It is a .NET framework which provides facility of html, css, javascript with mvc architecture, where mvc stands for ..

M – Model (Application’s data and business logic)

V – View (Presenting data to the user & receiving user input)

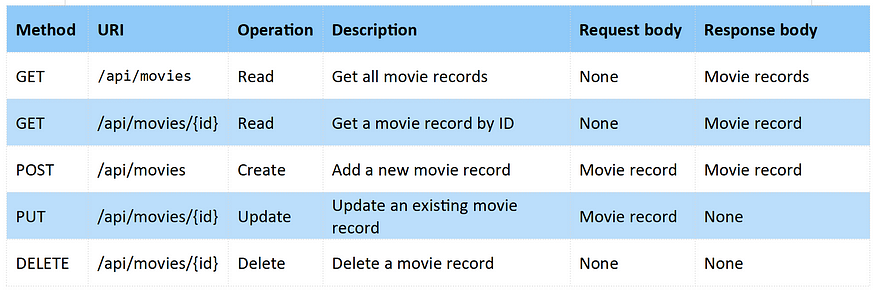
C – Controller (intermediatory between Model and View)

ASP .NET Web API

ASP .NET Web API is a framework for building HTTP services that can be accessed from any client including browsers and mobile devices.

It develops RESTful (Representational State Transfer) applications.

Building Web API Project



* HTTP consists following methods which are implemented in demo for Student API..

GET

* Get Method is used for the purpose of viewing / getting / extracting in the database.
* In the project, It is implemented for getting all objects as well as any particular object by specific id ( e.g. Aadhar Number, Enrollment ID, etc .)

POST

* Post method is used for the purpose of addition in the database.

PUT

* Put method is used for the updation within the dtabase.
* Any database record can be updated by using put method.
* Here, updation means we have to provide all details of the object, PUT method is not capable to make changes on specific fields, if we want to update only one field in record still we have to provide other all fields too.

DELETE

* Delete method is used for the deletion of the record in database

PATCH

* Patch method is used for the updation within the dtabase.
* Any database record can be updated by using patch method.
* Here, updation means we have to provide only details of the object which we want to update, other details will be as it is as before.