

PRACTICAL 8

Aim: Develop ASP.NET Core MVC application to download information from Web URL. Create asynchronous method and use it to implement the functionality.

Code:

HomeController.cs : (Controllers / HomeController.cs)

```
using Microsoft.AspNetCore.Mvc;
using PRACTICAL8.Services;
using System.Threading.Tasks;
namespace PRACTICAL8.Controllers {
    public class HomeController : Controller {
        private readonly WebDownloadService _webDownloadService;
        public HomeController(WebDownloadService webDownloadService) {
            _webDownloadService = webDownloadService;
        }
        public async Task<IActionResult> Index() {
            string url = "https://jsonplaceholder.typicode.com/posts/1";
            string content = await _webDownloadService.DownloadContentAsync(url);
            ViewBag.Content = content;
            return View();
        }
    }
}
```

WebDownloadService.cs : (Services / WebDownloadService.cs)

```
namespace PRACTICAL8.Services {
    public class WebDownloadService {
        private readonly HttpClient _httpClient;
        public WebDownloadService(HttpClient httpClient) {
            _httpClient = httpClient;
        }
        public async Task<string> DownloadContentAsync(string url) {
            HttpResponseMessage response = await _httpClient.GetAsync(url);
            response.EnsureSuccessStatusCode();
            string content = await response.Content.ReadAsStringAsync();
            return content;
        }
    }
}
```

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Index.cshtml : (Views / Home / Index.cshtml)

```
@{
    ViewData["Title"] = "Downloaded Content";
}
<h2>@ViewData["Title"]</h2>
<div>
    <pre>@ViewBag.Content</pre>
</div>
```

Add This In Program.cs :

```
builder.Services.AddHttpClient<WebDownloadService>();
```

Output:

