# Overview:

# The Video Catalogue Challenge is an ASP.NET Core 6 MVC web application that allows users to upload and view MP4 videos. This single URL web application was created using Visual Studio 2022. The application's frontend utilizes Bootstrap for styling and JavaScript for handling file uploads and dynamic view loading. The application implements chunked file uploads for handling large media files both in JavaScript and in the web API.

# Project Structure:

**Model:** Contains the data models used in applications.

* **Video.cs:** Contains video file properties such as name, size and path
* **ErrorViewModel.cs:** It is a default model in ASP.Net Core which represents error information

**View:** Contains the view for the Frontend

* **Home**: Contains the views for the home page.
  + **Index.cshtml:** The main view that dynamically loads either the upload or catalogue view. It contains all the necessary JavaScript for uploading and viewing videos.
  + **Upload.cshtml:** View for uploading videos.
  + **Catalogue.cshtml:** View for displaying and play/pause videos from the list of uploaded videos.
* **Shared**: Contains shared views like **\_Layout.cshtml, ValidationScriptsPartial.cshtml** and **Error.cshtml** which are part of ASP.Net by default

Other default Views are **ViewImports.cshtml** and **\_ViewStart.cshtml**

**Controller:** Contains the logics for handling HTTP requests and work as mediator between Model and View

* **HomeController.cs**: Handles the main views for the application. It uses partial View functionality to dynamically display specific web page.
* **UploadController.cs:** Manages file upload functionality via API. It ensures file size does not exceed 200 MB, prevents uploading duplicate files, and restricts uploads to MP4 format only.

**wwwroot:** Contains static files such as CSS, JavaScript, bootstrap and media files. Uploaded media files are stored in the media folder.

**Media:** All media files used for testing and demonstration purposes have been downloaded from <https://mixkit.co/free-stock-video/> . These can be found in the Video folder.

Clone the Repository: <https://github.com/damanjitgill/Video_Catalogue_Challenge.git>