Exam Solution

The project I build is using .Net Core 2.x. I used .Net Core because it supports multi-platform like

Windows, Linux and Mac and because this is also part of the job description that require by the employer.

For API, I used Multi-tier architecture because I think that is the fastest to implement and common architecture for any developer and this approach can be migrated to SOLID and ONION.

For this approached I separated the DTO, Business, Persistence, and Service layer where these layers

follow the principle of Single Responsibility, Dependency Inversion, and Interface segregation to create

loosely couple classes.

For WEB UI, I am using Java Script framework that support single page application or SPA to

Which is Angular I used this framework because this is the one of the trend technologies today

And using this the application is more responsive without the jarring effect of reloading and re-rendering the page and since we are using JSON to request our data it can be easily loaded to the JavaScript.

For file upload I am using existing NPM package which is the ngx-file-drop where this is very common packages and lots of resources to be used as reference.

To display message I am using normal JavaScript alert() function since I failed to integrate the NgModal to my application and Alert is very to implement over NgModal.