APPROACH FOR IMGUR GALLERY

Requirement Analysis:

From the coding challenge instructions the requirement was analysed as follows

- To Implement web app for browsing images which will be loaded by consuming the rest api provided by https://api.imgur.com and documentation available in https://apidocs.imgur.com
- 2. After studying the documentation of imgur.com following things are noted:
 - a) API ENDPOINT for gallery images are noted down.
 - b) To access the Rest API, Authorization header with client-Id is required and to get client-id, our web application needs to be registered in imgur.com.
 - c) To get thumbnail images of various sizes different characters listed as per documentation needs to be included in the actual image url received in the response.
 - d) For user to select section, sort, window of images the valid values are noted and needs to be passed as url params.
 - e) Data models noted for the type of response will be received in case of success or error.
- 3. Registered the web application in imgur.com and noted the generated client-ld.
- 4. Tested the api endpoints using postman with client-id passed as authorization header and analysed the response received.

Implementation:

Environment Setup:

- Choosen Angular 14 to design and develop the single page application by consuming the Rest API from api.imgur.com
- 2. Choosen VS CODE for IDE.
- 3. Installed node latest version 16.
- 4. Npm gets installed along with node.
- 5. Installed angular latest version 14.
- 6. @angular/material Npm package added to project for ui development.
- 7. Git initiated in the root of local project.
- 8. Repository created in GitHUB.

Developing Feature:

- Mat-grid-listing ui component from material used to show thumbnail images in grid pattern
- 2. Mat-grid-tile-footer used to show description at the bottom of thumbnail image.
- 3. Mat-select ui component used to provide section, sort, window filters to the user.
- 4. Image Interface created as per the noted model from documentation.
- 5. Image Service created to separate the methods to call api endpoints.
- 6. Environment file created for keeping the api end points and client-ld.

- 7. Once the response received from api, filtered the response for images only then modified the image url to make thumbnail url as per documentation.
- 8. Pushed local repository to GitHub remote repository

Testing:

- 1. Inbuilt spec.ts file used to write Test use cases using Jasmine and karma test compiler for unit testing the component behaviour as per the desired logic.
- 2. Executed test cases and resolved the failed test cases.

Deployment:

- 1. Updated local repository to GitHub.
- 2. GitHub ghpages activated and path given as docs folder to publishing application.
- 3. Build output directory was updated as docs in angular.json for ghpages to publish content.
- 4. Cli command ng build used with baseHref flag value with the published link that was created when activated ghpages.
- 5. Pushed the project to GitHub including the generated docs folder with published files.
- 6. By accessing the ghpages published link in browser user will be able to access the web application.