TECH USED:

* Front-end: Angular with bootstrap
* Back-end: NodeJS with Express, Firebase for database (Actual image files are stored locally inside /assets/backend/uploads )

*\*The file named “Back-end” inside the assets folder in the root of the project holds the complete backend of the project.*

RUNNING THE APP:

1. Open command prompt inside the assets/Back-end folder and type “node app” to run the backend NodeJS server at localhost:5000
2. Inside the Angular project file type in “ng serve” in the command prompt to run the Angular app at localhost:4200
3. The app is ready to use

HOW THE APP WORKS:

* The app routes into the image gallery by default.
* Clicking and image will trigger the display of an enlarged version of the image along with the image name and description
* Clicking on the close icon on the top left of the image will restore previous view of the gallery
* Clicking on upload on the navigation bar will route to a template to upload an image which will be available in the gallery.

MODULES USED IN THE ANGULAR APP:

* AppModule:
  + The main module that has the template to call the header component ( for navigation bar ) and initiates the routing to the image gallery (ImageGalleryComponent)
* UploadModule:
  + Contains the template for the upload form.
* SharedModule:
  + Module to store the shared structures of the app like interfaces etc.
* ImageGalleryModule:
  + Module that contains the template to display the images in the image gallery.

SERVICES USED IN THE APP:

* DataService:
  + It is a service for fetching the image data from the firebase database using api call: /api/images

ASSUMPTIONS MADE:

* Since an image gallery is built, an upload feature has been additionally added so that users can upload their images to be stored in the gallery.