# Vision Demo – Task Summary

*Scope:*

1. Drag and drop a local image file to the upload area for uploading / or click to select a file for uploading
2. The uploaded image is read and stored in an ImageList array. Display them in a grid format

*Out of Scope:*

1. Clicking an image for processing is not implemented in this demo
2. This Demo is for Front-end UI only, no backend server required

## Implementation

3 major **React components** have been written under **./src** folder below. **React Hooks** are used, such as **useCallback, useState, useDropzone, etc**

- **App.js**
  - An entry component that it generates all the HTML templates
  - Calls the Dropzone component and passes one parameter of onDrop callback function
  - Calls ImageList component and passes all selected image file(s) to it
- **Dropzone.js**
  - Imports and uses the **react-dropzone** library to handle the drag and drop file(s)
  - Drags/Drops multiple files are supported
- **ImageList.js**
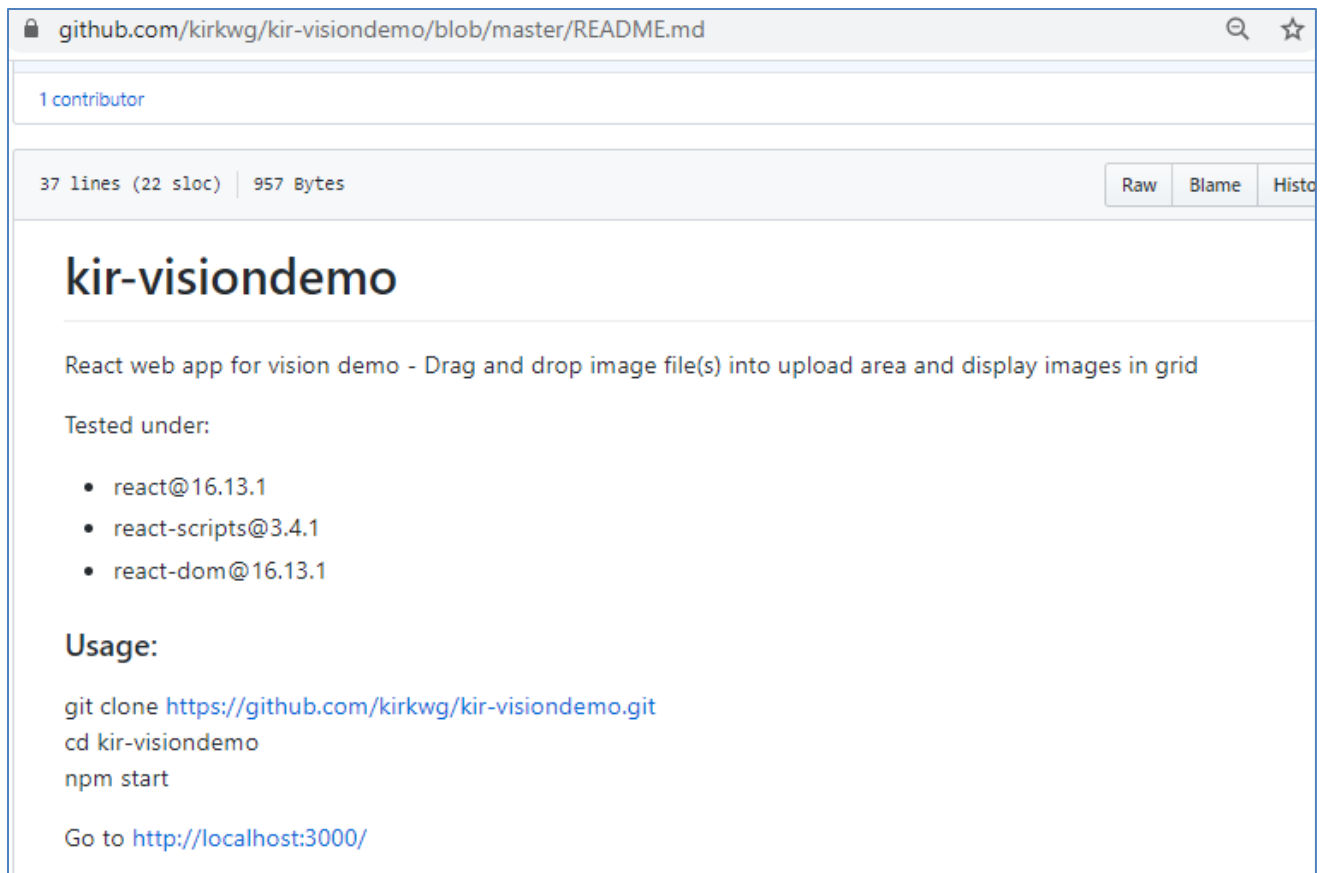  - Renders the selected image(s) inside the grid area

## Usage

*Prerequisite:     Node.js and NPM should be installed before any demo operation below*

```
git clone https://github.com/kirkwg/kir-visiondemo.git

cd kir-visiondemo

npm start
```
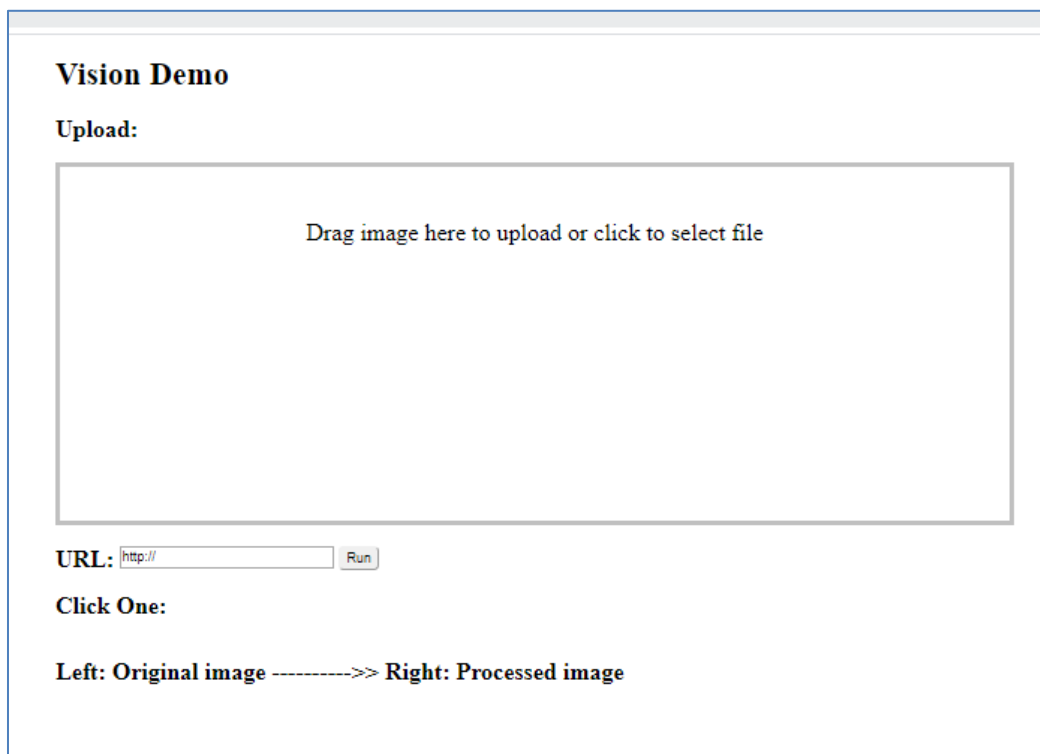
Go to http://localhost:3000/ in Chrome or compatible Browser for seeing results

# kir-visiondemo

React web app for vision demo - Drag and drop image file(s) into upload area and display images in grid

Tested under:

- react@16.13.1
- react-scripts@3.4.1
- react-dom@16.13.1

## Usage:

git clone https://github.com/kirkwg/kir-visiondemo.git
cd kir-visiondemo
npm start

Go to http://localhost:3000/

## Snapshots for the Vision Demo

01/      Vision demo begins

**Vision Demo**

**Upload:**

Drag image here to upload or click to select file

**URL:** http://    Run

**Click One:**
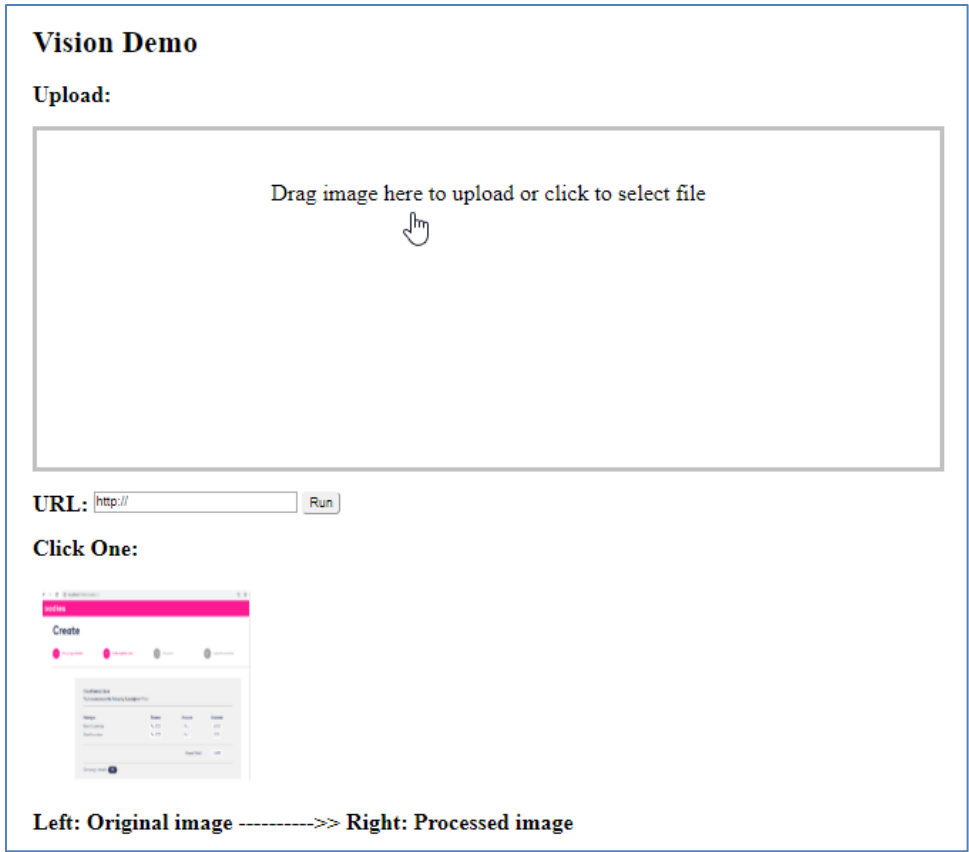
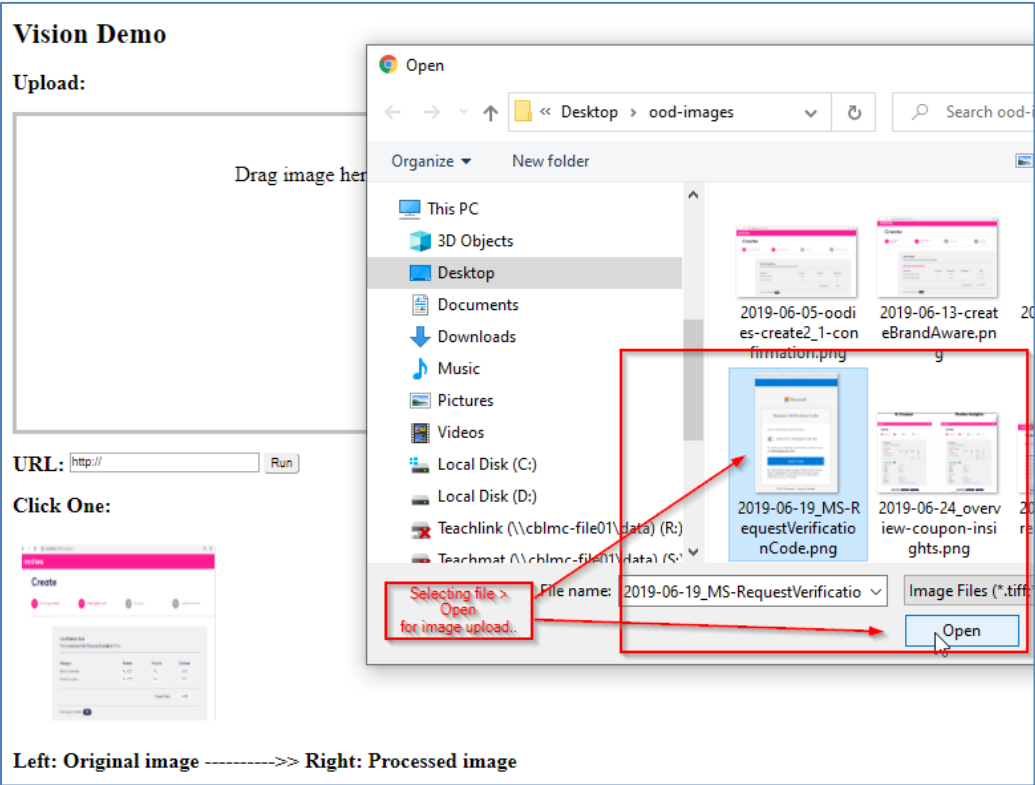**Left: Original image ---------->> Right: Processed image**

02/     Open a folder > select an image file > drag and drop it into the Upload area
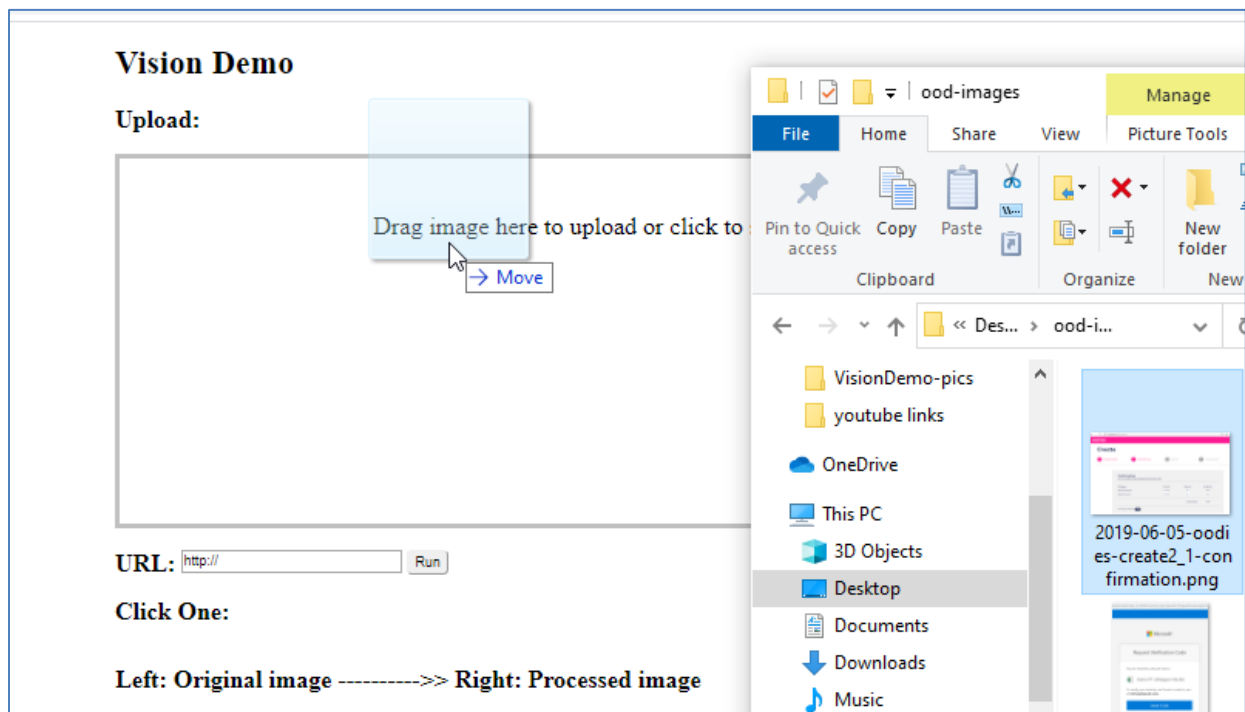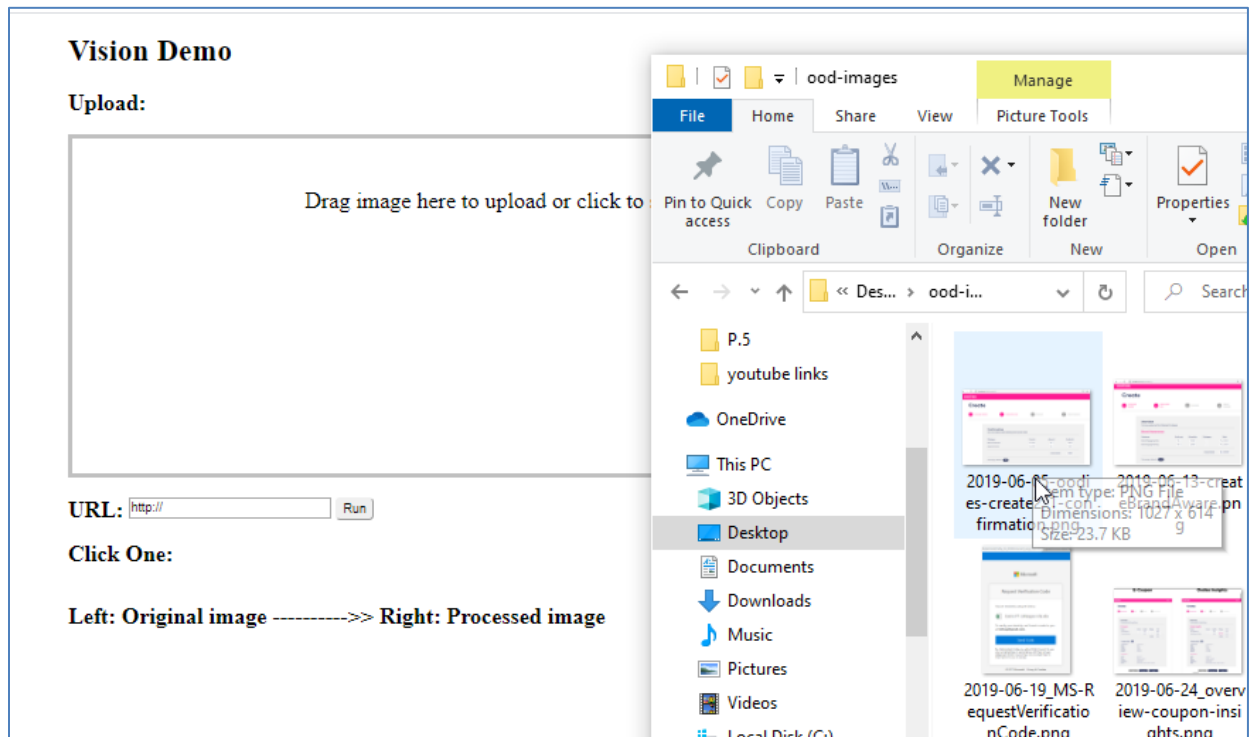




03/     The dropped image is displayed in the grid area below

**Vision Demo**

Upload:

Drag image here to upload or click to select file

URL: [http://] [Run]

Click One:

Left: Original image ---------->> Right: Processed image

04/      Alternately, user can click to select an image file, instead of using drag and drop approach



**Vision Demo**

Upload:

Drag image her

URL: [http://] [Run]

Click One:

Left: Original image ---------->> Right: Processed image

05/    Shows three images uploaded
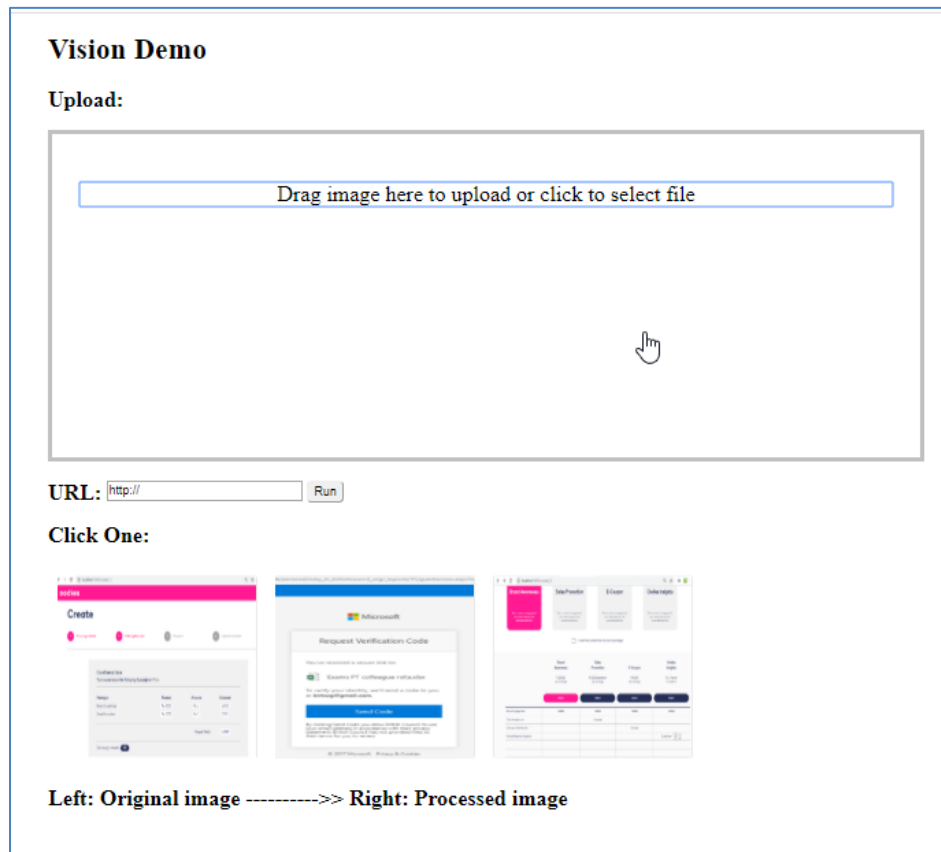


06/    Looking of the Demo UI was revised a bit