Matlab GUI to Capture an Image

function varargout = Capture\_Voter\_Application(varargin)

% CAPTURE\_VOTER\_APPLICATION MATLAB code for Capture\_Voter\_Application.fig

% CAPTURE\_VOTER\_APPLICATION, by itself, creates a new CAPTURE\_VOTER\_APPLICATION or raises the existing

% singleton\*.

%

% H = CAPTURE\_VOTER\_APPLICATION returns the handle to a new CAPTURE\_VOTER\_APPLICATION or the handle to

% the existing singleton\*.

%

% CAPTURE\_VOTER\_APPLICATION('CALLBACK',hObject,eventData,handles,...) calls the local

% function named CALLBACK in CAPTURE\_VOTER\_APPLICATION.M with the given input arguments.

%

% CAPTURE\_VOTER\_APPLICATION('Property','Value',...) creates a new CAPTURE\_VOTER\_APPLICATION or raises the

% existing singleton\*. Starting from the left, property value pairs are

% applied to the GUI before Capture\_Voter\_Application\_OpeningFcn gets called. An

% unrecognized property name or invalid value makes property application

% stop. All inputs are passed to Capture\_Voter\_Application\_OpeningFcn via varargin.

%

% \*See GUI Options on GUIDE's Tools menu. Choose "GUI allows only one

% instance to run (singleton)".

%

% See also: GUIDE, GUIDATA, GUIHANDLES

% Edit the above text to modify the response to help Capture\_Voter\_Application

% Last Modified by GUIDE v2.5 29-Sep-2021 06:22:58

% Begin initialization code - DO NOT EDIT

gui\_Singleton = 1;

gui\_State = struct('gui\_Name', mfilename, ...

'gui\_Singleton', gui\_Singleton, ...

'gui\_OpeningFcn', @Capture\_Voter\_Application\_OpeningFcn, ...

'gui\_OutputFcn', @Capture\_Voter\_Application\_OutputFcn, ...

'gui\_LayoutFcn', [] , ...

'gui\_Callback', []);

if nargin && ischar(varargin{1})

gui\_State.gui\_Callback = str2func(varargin{1});

end

if nargout

[varargout{1:nargout}] = gui\_mainfcn(gui\_State, varargin{:});

else

gui\_mainfcn(gui\_State, varargin{:});

end

% End initialization code - DO NOT EDIT

% --- Executes just before Capture\_Voter\_Application is made visible.

function Capture\_Voter\_Application\_OpeningFcn(hObject, eventdata, handles, varargin)

% This function has no output args, see OutputFcn.

% hObject handle to figure

% eventdata reserved - to be defined in a future version of MATLAB

% handles structure with handles and user data (see GUIDATA)

% varargin command line arguments to Capture\_Voter\_Application (see VARARGIN)

% Choose default command line output for Capture\_Voter\_Application

handles.output = hObject;

ah = axes('unit', 'normalized', 'position', [0 0 1 1]);

% Move the background axes to the bottom

uistack(ah, 'bottom');

% Load in a background image and display it using the correct colors

% The image used below, is in the Image Processing Toolbox. If you do not have %access to this toolbox, you can use Gender\_and\_Age\_Prediction\_System image file instead.

I=imread('example5.jpg');

hi = imagesc(I)

colormap gray

% Turn the handlevisibility off so that we don’t inadvertently plot into the axes again

% Also, make the axes invisible

set(ah,'handlevisibility','off','visible','off')

% Update handles structure

% Update handles structure

% Update handles structure

% Update handles structure

guidata(hObject, handles);

% UIWAIT makes Capture\_Voter\_Application wait for user response (see UIRESUME)

% uiwait(handles.figure1);

% --- Outputs from this function are returned to the command line.

function varargout = Capture\_Voter\_Application\_OutputFcn(hObject, eventdata, handles)

% varargout cell array for returning output args (see VARARGOUT);

% hObject handle to figure

% eventdata reserved - to be defined in a future version of MATLAB

% handles structure with handles and user data (see GUIDATA)

% Get default command line output from handles structure

varargout{1} = handles.output;

% --- Executes on button press in training\_data.

function training\_data\_Callback(hObject, eventdata, handles)

% hObject handle to training\_data (see GCBO)

% eventdata reserved - to be defined in a future version of MATLAB

% handles structure with handles and user data (see GUIDATA)

Age\_Classification\_Voting\_System;

% --- Executes on button press in capture\_app.

function capture\_app\_Callback(hObject, eventdata, handles)

% hObject handle to capture\_app (see GCBO)

% eventdata reserved - to be defined in a future version of MATLAB

% handles structure with handles and user data (see GUIDATA)

% --- Executes on button press in cropping\_app.

function cropping\_app\_Callback(hObject, eventdata, handles)

% hObject handle to cropping\_app (see GCBO)

% eventdata reserved - to be defined in a future version of MATLAB

% handles structure with handles and user data (see GUIDATA)

Cropping\_App\_1;

% --- Executes on button press in ACVS\_system.

function ACVS\_system\_Callback(hObject, eventdata, handles)

% hObject handle to ACVS\_system (see GCBO)

% eventdata reserved - to be defined in a future version of MATLAB

% handles structure with handles and user data (see GUIDATA)

Age\_Classification\_Voting\_System;

% --- Executes on button press in new\_voter.

function new\_voter\_Callback(hObject, eventdata, handles)

% hObject handle to new\_voter (see GCBO)

% eventdata reserved - to be defined in a future version of MATLAB

% handles structure with handles and user data (see GUIDATA)

Capture\_Voter\_Application;

% --- Executes on button press in set\_camera.

function set\_camera\_Callback(hObject, eventdata, handles)

% hObject handle to set\_camera (see GCBO)

% eventdata reserved - to be defined in a future version of MATLAB

% handles structure with handles and user data (see GUIDATA)

global a;

a = videoinput('winvideo', 1);

axes(handles.axes1);

hImage=image(zeros(250,250,3),'Parent',handles.axes1);

preview(a, hImage);

% --- Executes on button press in exit.

function exit\_Callback(hObject, eventdata, handles)

% hObject handle to exit (see GCBO)

% eventdata reserved - to be defined in a future version of MATLAB

% handles structure with handles and user data (see GUIDATA)

handles.output =hObject;

axes(handles.axes1);

close all;

% --- Executes on button press in capture\_and\_save.

function capture\_and\_save\_Callback(hObject, eventdata, handles)

% hObject handle to capture\_and\_save (see GCBO)

% eventdata reserved - to be defined in a future version of MATLAB

% handles structure with handles and user data (see GUIDATA)

global a;

handles.output =hObject;

axes(handles.axes2);

persistent counter;

if isempty(counter)

counter = 1;

end

hImage=image(zeros(280,384,3),'Parent',handles.axes2);

set(a, 'ReturnedColorSpace', 'RGB');

img = getsnapshot(a);

imshow(img);

savename = ['C:\Users\HP\Desktop\ACVS\image\_', num2str(counter), '.jpg'];

imwrite(img, savename);

counter = counter + 1;