

LAMPIRAN-LAMPIRAN

LAMPIRAN 1

Hasil pengujian data latih

No.	Nama file	Label	Hasil KNN					SVM
			K1	K3	K5	K7	K9	
1	'Kawung (1).jpg'	Kawung	1	1	1	1	1	0
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265	'Parang (115).jpg'	Parang	1	1	1	0	0	0
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271	'Parang (123).jpg'	Parang	1	0	0	0	0	0
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274	'Parang (126).jpg'	Parang	1	1	0	1	0	0
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425	"Tambal (2).jpg'	Tambal	1	1	0	0	0	1
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550	"Truntum (160).jpg'	Truntum	1	1	0	0	0	0
551	"Truntum (161).jpg'	Truntum	1	0	0	0	0	0
552	"Truntum (162).jpg'	Truntum	1	0	0	0	0	0
553	"Truntum (163).jpg'	Truntum	1	1	1	1	1	0
554	"Truntum (164).jpg'	Truntum	1	1	1	1	1	0
555	"Truntum (165).jpg'	Truntum	1	1	1	0	0	0
556	"Truntum (166).jpg'	Truntum	1	1	1	1	0	0
557	"Truntum (167).jpg'	Truntum	1	1	1	1	1	0
558	"Truntum (168).jpg'	Truntum	1	1	1	0	0	0
559	"Truntum (169).jpg'	Truntum	1	0	0	0	1	0
560	"Truntum (17).jpg'	Truntum	1	0	0	1	1	0
561	"Truntum (170).jpg'	Truntum	1	1	0	0	0	0
562	"Truntum (171).jpg'	Truntum	1	1	0	0	0	0
563	"Truntum (172).jpg'	Truntum	1	0	0	0	0	0
564	"Truntum (173).jpg'	Truntum	1	1	1	0	0	0
565	"Truntum (174).jpg'	Truntum	1	0	0	0	0	0
566	"Truntum (175).jpg'	Truntum	1	1	1	1	1	0
567	"Truntum (176).jpg'	Truntum	1	1	1	1	1	0
568	"Truntum (177).jpg'	Truntum	1	1	1	1	1	0
569	"Truntum (178).jpg'	Truntum	1	1	1	1	1	0
570	"Truntum (179).jpg'	Truntum	1	1	1	0	0	0
571	"Truntum (18).jpg'	Truntum	1	1	0	0	1	0
572	"Truntum (180).jpg'	Truntum	1	0	0	1	1	0
573	"Truntum (181).jpg'	Truntum	1	0	1	1	0	1
574	"Truntum (182).jpg'	Truntum	1	1	0	0	0	0
575	"Truntum (183).jpg'	Truntum	1	1	1	0	0	0
576	"Truntum (184).jpg'	Truntum	1	1	0	0	0	0
577	"Truntum (186).jpg'	Truntum	1	0	0	0	1	1
578	"Truntum (187).jpg'	Truntum	1	1	0	1	0	0
579	"Truntum (188).jpg'	Truntum	1	1	1	1	1	0
580	"Truntum (189).jpg'	Truntum	1	1	0	1	1	0

581	"Truntum (190).jpg'	Truntum	1	1	1	1	1	1
582	"Truntum (191).jpg'	Truntum	1	0	0	0	0	0
583	"Truntum (192).jpg'	Truntum	1	0	1	0	0	0
584	"Truntum (193).jpg'	Truntum	1	1	0	0	0	1
585	"Truntum (195).jpg'	Truntum	1	0	0	0	0	0
586	"Truntum (196).jpg'	Truntum	1	1	0	1	1	0
587	"Truntum (198).jpg'	Truntum	1	0	0	0	0	1
588	"Truntum (199).jpg'	Truntum	1	0	1	0	0	0
589	"Truntum (20).jpg'	Truntum	1	1	1	1	1	0
590	"Truntum (200).jpg'	Truntum	1	0	0	0	1	0
591	"Truntum (201).jpg'	Truntum	1	0	0	0	0	0
592	"Truntum (202).jpg'	Truntum	1	0	0	0	0	0
593	"Truntum (204).jpg'	Truntum	1	0	0	0	1	0
594	"Truntum (205).jpg'	Truntum	1	0	0	0	0	1
595	"Truntum (206).jpg'	Truntum	1	1	0	0	0	1
596	"Truntum (21).jpg'	Truntum	1	0	0	0	0	0
597	"Truntum (26).jpg'	Truntum	1	1	0	0	0	0
598	"Truntum (28).jpg'	Truntum	1	1	1	1	1	0
599	"Truntum (31).jpg'	Truntum	1	1	1	1	1	0
600	"Truntum (32).jpg'	Truntum	1	1	0	0	0	0
601	"Truntum (34).jpg'	Truntum	1	1	1	1	1	0
602	"Truntum (37).jpg'	Truntum	1	1	1	1	1	0
603	"Truntum (38).jpg'	Truntum	1	1	0	1	1	0
604	"Truntum (4).jpg'	Truntum	1	1	1	0	0	1
605	"Truntum (43).jpg'	Truntum	1	1	0	1	1	0
606	"Truntum (47).jpg'	Truntum	1	1	1	1	1	0
607	"Truntum (48).jpg'	Truntum	1	1	1	1	0	0
608	"Truntum (49).jpg'	Truntum	1	0	0	0	0	0
609	"Truntum (50).jpg'	Truntum	1	1	1	0	0	0
610	"Truntum (55).jpg'	Truntum	1	0	0	0	0	0
611	"Truntum (59).jpg'	Truntum	1	1	1	1	1	0
612	"Truntum (62).jpg'	Truntum	1	1	0	0	0	0
613	"Truntum (64).jpg'	Truntum	1	0	0	0	0	0
614	"Truntum (65).jpg'	Truntum	1	1	0	0	1	0
615	"Truntum (66).jpg'	Truntum	1	0	0	0	0	0
616	"Truntum (67).jpg'	Truntum	1	1	1	1	1	0
617	"Truntum (71).jpg'	Truntum	1	1	1	1	1	0
618	"Truntum (80).jpg'	Truntum	1	0	0	1	1	0
619	"Truntum (96).jpg'	Truntum	1	1	1	1	1	0
620	"Truntum (98).jpg'	Truntum	1	1	1	1	1	0
Total benar			620	425	347	318	301	121

$$\text{Akurasi} = \frac{\Sigma \text{ objek yang diidentifikasi dengan benar}}{\Sigma \text{ semua objek yang diidentifikasi}} \times 100\%$$

$$\text{Akurasi KNN K-1} = \frac{620}{620} \times 100\% = 100\%$$

$$\text{Akurasi KNN K-3} = \frac{425}{620} \times 100\% = 68.54\%$$

$$\text{Akurasi KNN K-5} = \frac{347}{620} \times 100\% = 55.96\%$$

$$\text{Akurasi KNN K-7} = \frac{318}{620} \times 100\% = 51.29\%$$

$$\text{Akurasi KNN K-9} = \frac{301}{620} \times 100\% = 48.54\%$$

$$\text{Akurasi SVM} = \frac{121}{620} \times 100\% = 19.51\%$$

LAMPIRAN 2

Source code interface menu utama

```

classdef Main_menu < matlab.apps.AppBase

% Properties that correspond to a
properties (Access = public)
UIFigure matlab.ui.Figure
KeluarButton matlab.ui.control.Button
MasukButton matlab.ui.control.Button
HTML matlab.ui.control.HTML
mdcnskjdffhuHDFKJhskjsbfgdufButton_2 matlab.ui.control.StateButton
mdcnskjdffhuHDFKJhskjsbfgdufButton matlab.ui.control.StateButton
Image matlab.ui.control.Image
ContextMenu matlab.ui.container.ContextMenu
Menu matlab.ui.container.Menu
Menu2 matlab.ui.container.Menu
end

% Callbacks that handle component events
methods (Access = private)

% Button pushed function: MasukButton
function MasukButtonPushed(app, event)
Main_menu = Main_proses;
end

% Button pushed function: KeluarButton
function KeluarButtonPushed(app, event)
close all force
end
end

% Component initialization
methods (Access = private)

% Create UIFigure and components
function createComponents(app)

% Create UIFigure and hide until all components are created
app.UIFigure = uifigure('Visible', 'off');
app.UIFigure.Color = [1 1 1];
app.UIFigure.Position = [100 100 640 480];
app.UIFigure.Name = 'MATLAB App';

% Create Image
app.Image = uiimage(app.UIFigure);
app.Image.Position = [281 241 103 104];
app.Image.ImageSource = 'Logo-UMG.png';

% Create mdcnskjdffhuHDFKJhskjsbfgdufButton
app.mdcnskjdffhuHDFKJhskjsbfgdufButton = uibutton(app.UIFigure, 'state');
app.mdcnskjdffhuHDFKJhskjsbfgdufButton.Text = '';
app.mdcnskjdffhuHDFKJhskjsbfgdufButton.WordWrap = 'on';
app.mdcnskjdffhuHDFKJhskjsbfgdufButton.BackgroundColor = [0.0471 0.498 0.8];
app.mdcnskjdffhuHDFKJhskjsbfgdufButton.FontSize = 14;
app.mdcnskjdffhuHDFKJhskjsbfgdufButton.FontWeight = 'bold';
app.mdcnskjdffhuHDFKJhskjsbfgdufButton.FontAngle = 'italic';
app.mdcnskjdffhuHDFKJhskjsbfgdufButton.Position = [47 376 549 70];

```

```

% Create mdcnskjdfhuHDFKJhskjsbfgdufButton_2
app.mdcnskjdfhuHDFKJhskjsbfgdufButton_2 = uibutton(app.UIFigure, 'state');
app.mdcnskjdfhuHDFKJhskjsbfgdufButton_2.Text = 'PERBANDINGAN METODE K-NEAREST
NEIGHBOUR (KNN) DAN SUPPORT VECTOR MACHINE (SVM) DALAM IDENTIFIKASI POLA MOTIF
BATIK MENGGUNAKAN EKSTRAKSI FITUR RADIALY AVERAGED POWER SPECTRUM VALUE
(RAPSV)';
app.mdcnskjdfhuHDFKJhskjsbfgdufButton_2.WordWrap = 'on';
app.mdcnskjdfhuHDFKJhskjsbfgdufButton_2.BackgroundColor = [0.902 0.902
0.902];
app.mdcnskjdfhuHDFKJhskjsbfgdufButton_2.FontSize = 14;
app.mdcnskjdfhuHDFKJhskjsbfgdufButton_2.FontWeight = 'bold';
app.mdcnskjdfhuHDFKJhskjsbfgdufButton_2.FontAngle = 'italic';
app.mdcnskjdfhuHDFKJhskjsbfgdufButton_2.Position = [55 389 533 72];

% Create HTML
app.HTML = uihhtml(app.UIFigure);
app.HTML.HTMLSource = 'ANITA SARI | 190602079 | TEKNIK INFORMATIKA | 2023';
app.HTML.Position = [124 28 430 21];

% Create MasukButton
app.MasukButton = uibutton(app.UIFigure, 'push');
app.MasukButton.ButtonPushedFcn = createCallbackFcn(app, @MasukButtonPushed,
true);
    app.MasukButton.BackgroundColor = [0.902 0.902 0.902];
    app.MasukButton.Position = [284 181 100 22];
    app.MasukButton.Text = 'Masuk';

    % Create KeluarButton
    app.KeluarButton = uibutton(app.UIFigure, 'push');
    app.KeluarButton.ButtonPushedFcn = createCallbackFcn(app,
@KeluarButtonPushed, true);
    app.KeluarButton.BackgroundColor = [0.902 0.902 0.902];
    app.KeluarButton.Position = [284 139 100 22];
    app.KeluarButton.Text = 'Keluar';

    % Create ContextMenu
    app.ContextMenu = uicontextmenu(app.UIFigure);

    % Create Menu
    app.Menu = uimenu(app.ContextMenu);
    app.Menu.Text = 'Menu';

    % Create Menu2
    app.Menu2 = uimenu(app.ContextMenu);
    app.Menu2.Text = 'Menu2';

    % Assign app.ContextMenu
    app.KeluarButton.ContextMenu = app.ContextMenu;

    % Show the figure after all components are created
    app.UIFigure.Visible = 'on';
end
end

% App creation and deletion
methods (Access = public)

    % Construct app
    function app = Main_menu

```

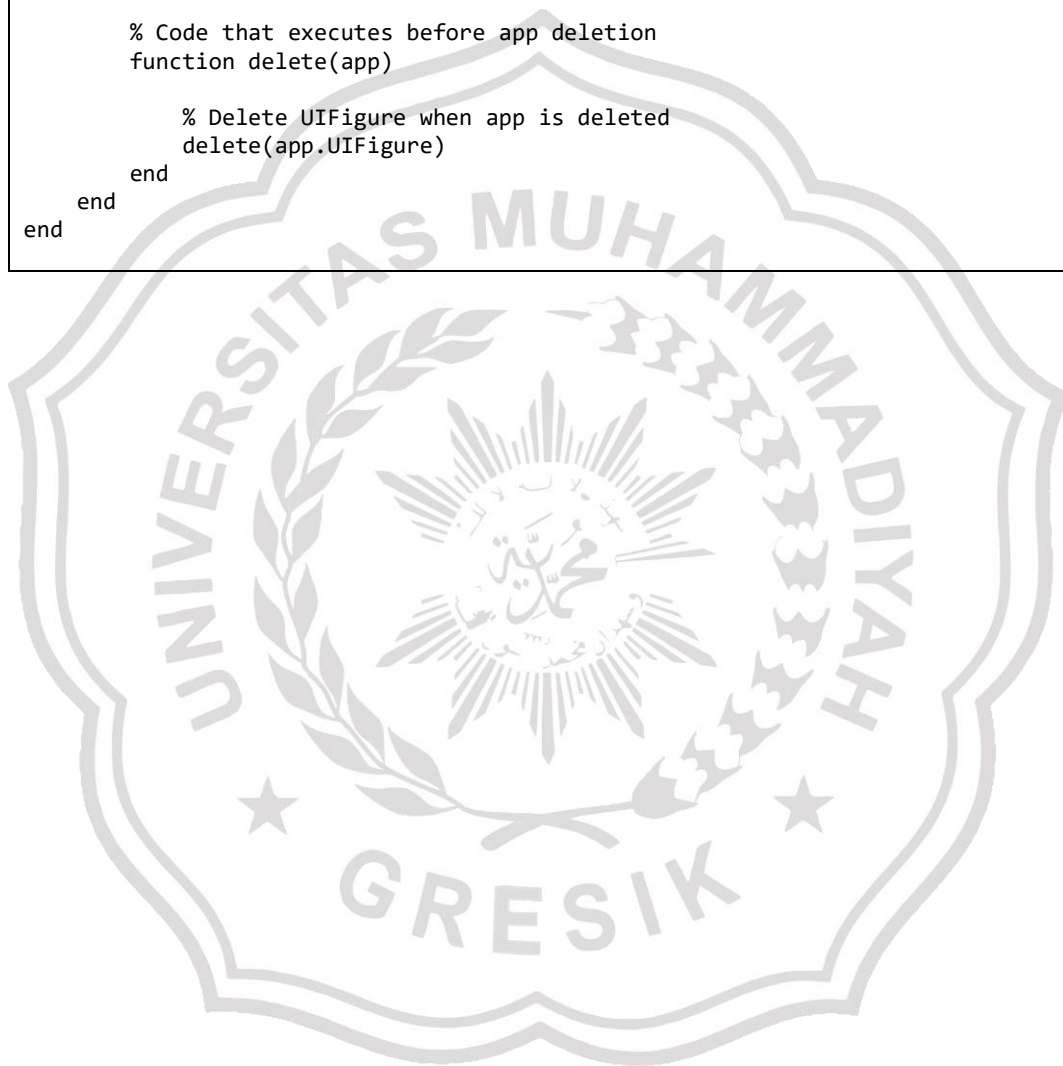
```
% Create UIFigure and components
createComponents(app)

% Register the app with App Designer
registerApp(app, app.UIFigure)

if nargin == 0
    clear app
end
end

% Code that executes before app deletion
function delete(app)

    % Delete UIFigure when app is deleted
    delete(app.UIFigure)
end
end
end
```



LAMPIRAN 3

Source code interface menu pengujian

```

classdef Main_proses < matlab.apps.AppBase

% Properties that correspond to app components
properties (Access = public)
    UIFigure matlab.ui.Figure
    KeluarButton matlab.ui.control.Button
    ResetButton matlab.ui.control.Button
    HasilKlasifikasiPanel matlab.ui.container.Panel
    KNNEditFieldLabel_2 matlab.ui.control.Label
    SVMEditField matlab.ui.control.EditField
    KNNEditFieldLabel matlab.ui.control.Label
    KNNEditField matlab.ui.control.EditField
    EkstraksiFiturPanel matlab.ui.container.Panel
    UIAxes_5 matlab.ui.control.UIAxes
    UIAxes_4 matlab.ui.control.UIAxes
    UIAxes_3 matlab.ui.control.UIAxes
    PreprocessingPanel matlab.ui.container.Panel
    UIAxes_6 matlab.ui.control.UIAxes
    UIAxes_2 matlab.ui.control.UIAxes
    UIAxes matlab.ui.control.UIAxes
    PengolahanCitraPanel matlab.ui.container.Panel
    KlasifikasiButton matlab.ui.control.Button
    EkstraksiFiturButton matlab.ui.control.Button
    EditField matlab.ui.control.EditField
    PreprocessingButton matlab.ui.control.Button
    InputgambarButton matlab.ui.control.Button
    mdcnskjdfhuHDFKJhskjsbfgdufButton_2 matlab.ui.control.StateButton
    mdcnskjdfhuHDFKJhskjsbfgdufButton matlab.ui.control.StateButton
end

properties (Access = public)
    Property % Description
end

% Callbacks that handle component events
methods (Access = private)

% Button pushed function: InputgambarButton
function InputgambarButtonPushed(app, event)
    [nama_file,nama_folder] = uigetfile ('*.jpg');
    drawnow
    figure(app.UIFigure)
    if ~isequal(nama_file,0)
        Img = im2double (imread(fullfile(nama_folder,nama_file)));
        app.EditField.Value = nama_file;
        app.Property.Img = Img;
    end
end

% Button pushed function: PreprocessingButton
function PreprocessingButtonPushed(app, event)
    Img = app.Property.Img;
    img = Img(:, :, min(1:3, end));
    Img1 = imresize(img,[200 200]);
    %merubah warna ke grayscale
    image = rgb2gray(Img1);

```

```

imshow (Img, 'parent', app.UIAxes_6)
title(app.UIAxes_6, 'Citra Asli')
imshow (image, 'parent', app.UIAxes)
title (app.UIAxes, 'Citra Grayscale')
%enhancement
J = adapthisteq (image);
imshow (J, 'parent', app.UIAxes_2)
title (app.UIAxes_2, 'Citra CLAHE')
app.Property.J = J;
end

% Button pushed function: EkstraksiFiturButton
function EkstraksiFiturButtonPushed(app, event)
J = app.Property.J;
%FFT
f=fft2(J);
l = log(1 + abs(f));
s = fftshift(l);
%% Process image size information
[N, M] = size(J);
%% Compute power spectrum
imgf = fftshift(f);
imgfp = (abs(s)/(N*M)).^2;
imshow (f, 'parent', app.UIAxes_3)
title (app.UIAxes_3, 'FFT')
imshow (imgf, 'parent', app.UIAxes_4)
title (app.UIAxes_4, 'FFTSHIFT')
imshow (imgfp, [], 'parent', app.UIAxes_5)
title (app.UIAxes_5, 'RAPSV')
%% Adjust PSD size
dimDiff = abs(N-M);
dimMax = max(N,M);
% Make square
if N > M % More rows than columns
if ~mod(dimDiff,2) % Even difference
imgfp = [NaN(N,dimDiff/2) imgfp NaN(N,dimDiff/2)]; % Pad columns to match
dimensions
else % Odd difference
imgfp = [NaN(N,floor(dimDiff/2)) imgfp
NaN(N,floor(dimDiff/2)+1)];
end
elseif N < M
% More columns than rows
if ~mod(dimDiff,2)
% Even difference
imgfp = [NaN(dimDiff/2,M); imgfp; NaN(dimDiff/2,M)];
% Pad rows to match dimensions
else
imgfp = [NaN(floor(dimDiff/2),M); imgfp;
NaN(floor(dimDiff/2)+1,M)];% Pad rows to match dimensions
end
end

halfDim = floor(dimMax/2) + 1;
% Only consider one half of spectrum (due to symmetry)

%% Compute radially average power spectrum
[X Y] = meshgrid(-dimMax/2:dimMax/2-1, -dimMax/2:dimMax/2-1);
% Make Cartesian grid

```



```

        [theta rho] = cart2pol(X, Y);
% Convert to polar coordinate axes
rho = round(rho);
i = cell(floor(dimMax/2) + 1, 1);
for r = 0:floor(dimMax/2)
    i{r + 1} = find(rho == r);
end
Pf = zeros(1, floor(dimMax/2)+1);
for r = 0:floor(dimMax/2)
    Pf(1, r + 1) = mean( imgfp( i{r+1} ) );
end
    % mengisi variabel data uji
    data_uji(1,:) = Pf;
    app.Property.data_uji = data_uji;
end

% Button pushed function: KlasifikasiButton
function KlasifikasiButtonPushed(app, event)
    data_uji = app.Property.data_uji;
    %target_uji = app.Property.target_uji;
    %memanggil hasil pelatihan
    load hasil_knn
    % membaca kelas keluaran hasil pengujian
    hasil_ujik = predict (hasil_knn,data_uji);

    %menampilkan kelas keluaran pada field
    app.KNNEditField.Value = hasil_ujik{1,1};

    load svm
    % membaca kelas keluaran hasil pengujian
    hasil_ujis = predict (svm,data_uji);

    %menampilkan kelas keluaran pada field
    app.SVMEditField.Value = hasil_ujis{1,1};
end

% Button pushed function: ResetButton
function ResetButtonPushed(app, event)
%
    %nama_file
    app.EditField.Value = '';
    %pre-processing

    cla(app.UIAxes_6, 'reset');
    set(app.UIAxes_6, 'Xtick', []);
    set(app.UIAxes_6, 'Ytick', []);

    cla(app.UIAxes, 'reset');
    set(app.UIAxes, 'Xtick', []);
    set(app.UIAxes, 'Ytick', []);

    cla(app.UIAxes_2, 'reset');
    set(app.UIAxes_2, 'Xtick', []);
    set(app.UIAxes_2, 'Ytick', []);

    %ekstraksi fitur
    cla(app.UIAxes_3, 'reset');
    set(app.UIAxes_3, 'Xtick', []);
    set(app.UIAxes_3, 'Ytick', []);

```

```

cla(app.UIAxes_4,'reset');
set(app.UIAxes_4,'Xtick',[]);
set(app.UIAxes_4,'Ytick',[]);

cla(app.UIAxes_5,'reset');
set(app.UIAxes_5,'Xtick',[]);
set(app.UIAxes_5,'Ytick',[]);

%hasil klasifikasi
app.KNNEditField.Value = '';
app.SVMEditField.Value = '';
clear all
end

% Button pushed function: KeluarButton
function KeluarButtonPushed(app, event)
close all force
end
end

% Component initialization
methods (Access = private)

% Create UIFigure and components
function createComponents(app)

% Create UIFigure and hide until all components are created
app.UIFigure = uifigure('Visible','off');
app.UIFigure.Position = [100 100 640 480];
app.UIFigure.Name = 'MATLAB App';

% Create mdcnskjdfhuHDFKJhskjsbfgdufButton
app.mdcnskjdfhuHDFKJhskjsbfgdufButton = uibutton(app.UIFigure, 'state');
app.mdcnskjdfhuHDFKJhskjsbfgdufButton.Text = '';
app.mdcnskjdfhuHDFKJhskjsbfgdufButton.WordWrap = 'on';
app.mdcnskjdfhuHDFKJhskjsbfgdufButton.BackgroundColor = [0.0471 0.498 0.8];
app.mdcnskjdfhuHDFKJhskjsbfgdufButton.FontSize = 14;
app.mdcnskjdfhuHDFKJhskjsbfgdufButton.FontWeight = 'bold';
app.mdcnskjdfhuHDFKJhskjsbfgdufButton.FontAngle = 'italic';
app.mdcnskjdfhuHDFKJhskjsbfgdufButton.Position = [47 380 549 70];

% Create mdcnskjdfhuHDFKJhskjsbfgdufButton_2
app.mdcnskjdfhuHDFKJhskjsbfgdufButton_2 = uibutton(app.UIFigure, 'state');
app.mdcnskjdfhuHDFKJhskjsbfgdufButton_2.Text = 'PERBANDINGAN METODE K-NEAREST
NEIGHBOUR (KNN) DAN SUPPORT VECTOR MACHINE (SVM) DALAM IDENTIFIKASI POLA MOTIF
BATIK MENGGUNAKAN EKSTRAKSI FITUR RADIALY AVERAGED POWER SPECTRUM VALUE
(RAPSV)';
app.mdcnskjdfhuHDFKJhskjsbfgdufButton_2.WordWrap = 'on';
app.mdcnskjdfhuHDFKJhskjsbfgdufButton_2.BackgroundColor = [0.902 0.902
0.902];
app.mdcnskjdfhuHDFKJhskjsbfgdufButton_2.FontSize = 14;
app.mdcnskjdfhuHDFKJhskjsbfgdufButton_2.FontWeight = 'bold';
app.mdcnskjdfhuHDFKJhskjsbfgdufButton_2.FontAngle = 'italic';
app.mdcnskjdfhuHDFKJhskjsbfgdufButton_2.Position = [56 394 533 72];

% Create PengolahanCitraPanel
app.PengolahanCitraPanel = uipanel(app.UIFigure);
app.PengolahanCitraPanel.Title = 'Pengolahan Citra';
app.PengolahanCitraPanel.FontName = 'Times New Roman';

```

```

app.PengolahanCitraPanel.FontSize = 13;
app.PengolahanCitraPanel.Position = [25 180 139 181];

% Create InputgambarButton
app.InputgambarButton = uibutton(app.PengolahanCitraPanel, 'push');
app.InputgambarButton.ButtonPushedFcn = createCallbackFcn(app,
@InputgambarButtonPushed, true);
app.InputgambarButton.FontName = 'Times New Roman';
app.InputgambarButton.Position = [19 134 100 22];
app.InputgambarButton.Text = 'Input gambar';

% Create PreprocessingButton
app.PreprocessingButton = uibutton(app.PengolahanCitraPanel, 'push');
app.PreprocessingButton.ButtonPushedFcn = createCallbackFcn(app,
@PreprocessingButtonPushed, true);
app.PreprocessingButton.FontName = 'Times New Roman';
app.PreprocessingButton.Position = [19 74 100 22];
app.PreprocessingButton.Text = 'Pre-processing';

% Create EditField
app.EditField = uieditfield(app.PengolahanCitraPanel, 'text');
app.EditField.Position = [19 104 100 22];

% Create EkstraksiFiturButton
app.EkstraksiFiturButton = uibutton(app.PengolahanCitraPanel, 'push');
app.EkstraksiFiturButton.ButtonPushedFcn = createCallbackFcn(app,
@EkstraksiFiturButtonPushed, true);
app.EkstraksiFiturButton.FontName = 'Times New Roman';
app.EkstraksiFiturButton.Position = [19 44 100 22];
app.EkstraksiFiturButton.Text = 'Ekstraksi Fitur';

% Create KlasifikasiButton
app.KlasifikasiButton = uibutton(app.PengolahanCitraPanel, 'push');
app.KlasifikasiButton.ButtonPushedFcn = createCallbackFcn(app,
@KlasifikasiButtonPushed, true);
app.KlasifikasiButton.FontName = 'Times New Roman';
app.KlasifikasiButton.Position = [19 14 100 22];
app.KlasifikasiButton.Text = 'Klasifikasi';

% Create PreprocessingPanel
app.PreprocessingPanel = uipanel(app.UIFigure);
app.PreprocessingPanel.Title = 'Pre-processing';
app.PreprocessingPanel.FontName = 'Times New Roman';
app.PreprocessingPanel.FontSize = 13;
app.PreprocessingPanel.Position = [179 194 442 167];

% Create UIAxes
app.UIAxes = uiaxes(app.PreprocessingPanel);
app.UIAxes.FontName = 'Times New Roman';
app.UIAxes.XTick = [];
app.UIAxes.YTick = [];
app.UIAxes.Position = [150 6 145 137];

% Create UIAxes_2
app.UIAxes_2 = uiaxes(app.PreprocessingPanel);
app.UIAxes_2.FontName = 'Times New Roman';
app.UIAxes_2.XTick = [];
app.UIAxes_2.YTick = [];
app.UIAxes_2.Position = [291 6 145 137];

```

```

% Create UIAxes_6
app.UIAxes_6 = uiaxes(app.PreprocessingPanel);
app.UIAxes_6.FontName = 'Times New Roman';
app.UIAxes_6.XTick = [];
app.UIAxes_6.YTick = [];
app.UIAxes_6.Position = [6 6 145 137];

% Create EkstraksiFiturPanel
app.EkstraksiFiturPanel = uipanel(app.UIFigure);
app.EkstraksiFiturPanel.Title = 'Ekstraksi Fitur';
app.EkstraksiFiturPanel.FontName = 'Times New Roman';
app.EkstraksiFiturPanel.FontSize = 13;
app.EkstraksiFiturPanel.Position = [179 17 442 164];

% Create UIAxes_3
app.UIAxes_3 = uiaxes(app.EkstraksiFiturPanel);
app.UIAxes_3.FontName = 'Times New Roman';
app.UIAxes_3.XTick = [];
app.UIAxes_3.YTick = [];
app.UIAxes_3.Position = [6 3 145 137];

% Create UIAxes_4
app.UIAxes_4 = uiaxes(app.EkstraksiFiturPanel);
app.UIAxes_4.FontName = 'Times New Roman';
app.UIAxes_4.XTick = [];
app.UIAxes_4.YTick = [];
app.UIAxes_4.Position = [148 3 145 137];

% Create UIAxes_5
app.UIAxes_5 = uiaxes(app.EkstraksiFiturPanel);
app.UIAxes_5.FontName = 'Times New Roman';
app.UIAxes_5.XTick = [];
app.UIAxes_5.YTick = [];
app.UIAxes_5.Position = [291 3 145 137];

% Create HasilKlasifikasiPanel
app.HasilKlasifikasiPanel = uipanel(app.UIFigure);
app.HasilKlasifikasiPanel.Title = 'Hasil Klasifikasi';
app.HasilKlasifikasiPanel.FontName = 'Times New Roman';
app.HasilKlasifikasiPanel.Position = [24 77 140 89];

% Create KNNEditField
app.KNNEditField = uieditfield(app.HasilKlasifikasiPanel, 'text');
app.KNNEditField.HorizontalAlignment = 'center';
app.KNNEditField.Position = [45 42 79 22];

% Create KNNEditFieldLabel
app.KNNEditFieldLabel = uilabel(app.HasilKlasifikasiPanel);
app.KNNEditFieldLabel.HorizontalAlignment = 'right';
app.KNNEditFieldLabel.FontName = 'Times New Roman';
app.KNNEditFieldLabel.FontWeight = 'bold';
app.KNNEditFieldLabel.Position = [8 43 28 22];
app.KNNEditFieldLabel.Text = 'KNN';

% Create SVMEditField
app.SVMEditField = uieditfield(app.HasilKlasifikasiPanel, 'text');
app.SVMEditField.HorizontalAlignment = 'center';
app.SVMEditField.Position = [45 10 79 22];

% Create KNNEditFieldLabel_2

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app.KNNEditFieldLabel_2 = uilabel(app.HasilKlasifikasiPanel);
app.KNNEditFieldLabel_2.HorizontalAlignment = 'right';
app.KNNEditFieldLabel_2.FontName = 'Times New Roman';
app.KNNEditFieldLabel_2.FontWeight = 'bold';
app.KNNEditFieldLabel_2.Position = [4 11 32 22];
app.KNNEditFieldLabel_2.Text = 'SVM';

% Create ResetButton
app.ResetButton = uibutton(app.UIFigure, 'push');
app.ResetButton.ButtonPushedFcn = createCallbackFcn(app, @ResetButtonPushed,
true);
app.ResetButton.FontName = 'Times New Roman';
app.ResetButton.Position = [44 43 100 22];
app.ResetButton.Text = 'Reset';

% Create KeluarButton
app.KeluarButton = uibutton(app.UIFigure, 'push');
app.KeluarButton.ButtonPushedFcn = createCallbackFcn(app,
@KeluarButtonPushed, true);
app.KeluarButton.FontName = 'Times New Roman';
app.KeluarButton.Position = [44 17 100 22];
app.KeluarButton.Text = 'Keluar';

% Show the figure after all components are created
app.UIFigure.Visible = 'on';
end
end

% App creation and deletion
methods (Access = public)

% Construct app
function app = Main_proses

% Create UIFigure and components
createComponents(app)

% Register the app with App Designer
registerApp(app, app.UIFigure)

if nargin == 0
clear app
end
end

% Code that executes before app deletion
function delete(app)

% Delete UIFigure when app is deleted
delete(app.UIFigure)
end
end
end

```