application.py

```
In [ ]: import tensorflow as tf
        from flask import Flask, render_template,request
        from tensorflow.keras.preprocessing import image
        import os
        application = Flask( name )
        APP_ROOT = os.path.dirname(os.path.abspath(__file__))
        @application.route('/',methods=['GET','POST'])
        def index():
            if request.method == 'POST':
                    if 'file' not in request.files:
                        return 'there is no image in form!'
                    final data= request.files['file']
                    target = os.path.join(APP_ROOT, 'static')
                    destination = "/".join([target, final_data.filename])
                    final data.save(final data.filename)
                    final data.save(destination)
                    model = tf.keras.models.load model('bestmodel VGG16 512.h5', compi
        le=False)
                    test image = image.load img(final data.filename , target size=(512
        , 512))
                    test image = image.img to array(test image)
                    test image = test image / 255
                    test image = tf.expand dims(test image, axis=0)
                    prediction = model.predict(test image)
                    os.remove(final data.filename)
                    if prediction[0][0]<= 0.5:
                        s = prediction[0][0] * 2
                        non Dank proba = round(abs(1 - s), 3)
                        if (non Dank proba == 0):
                             non Dank proba = 1
                        Dank proba=round((1 - non Dank proba),3)
                    elif prediction[0][0]> 0.5:
                         s = prediction[0][0] * 2
                        Dank proba = round(abs(1 - s),3)
                        non_Dank_proba = round((1 - Dank_proba),3)
                    if prediction[0][0]>0.5:
                        prediction='Image is a Dank'
                    else:
                         prediction='Image is Not a Dank'
                    return render_template('results.html',predcited=[prediction,Dank_p
        roba,non Dank proba,final data.filename])
            else:
                return render_template('index.html')
        if __name__ == "__main__":
            application.run()
```

index.html

```
In [ ]: | <!DOCTYPE html>
        <html>
        <head>
            <meta charset="utf-8">
            <meta name="viewport" content="width=device-width, initial-scale=1, shrink</pre>
        -to-fit=no">
            <!-- Bootstrap CSS -->
            <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.</pre>
        0.0/css/bootstrap.min.css" integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvT
        Nh0E263XmFcJlSAwiGgFAW/dAiS6JXm" crossorigin="anonymous">
            <title>Dank or Not? - Analyzing and Predicting the Popularity of Memes on
        Reddit</title>
        </head>
                <style>
            #main-footer
              color: #FFFFFF;
              font-family: "Segoe UI";
              background: #2B2B2B;
              text-align: center;
              margin-top: 125px;
              padding: 16px;
              bottom: 8px;
            }</style>
        <body>
        <div class="container",class="form-group">
                on Reddit</h2>
          <form action = "/" method = "post" enctype="multipart/form-data">
                <img id="blah" width="300" height="300" alt="meme image"/>
                <br>>
                <input type="file" name="file" onchange="document.getElementById('bla</pre>
        h').src = window.URL.createObjectURL(this.files[0])"/>
                <br>
                <br>
                <input type = "submit" value="Predict">
                <br>>
            </form>
          <h4>Download sample_data:</h4>
            <h5>1.Image link: https://i.redd.it/ecqosvb39zm41.jpg</h5>
            <h5>2.Image link: https://i.redd.it/ghi2kxtz76o41.jpg </h5>
            <h5>3.Image link: https://i.redd.it/fmk7ialms3n41.jpg</h5>
            <h5>4.Image link: https://i.redd.it/xa17g8jovin41.jpg
                                                                       </h5>
            <br>
            </div>
```

result.html

```
<!DOCTYPE html>
In [ ]:
        <html>
         <head>
             <meta charset="utf-8">
             <meta name="viewport" content="width=device-width, initial-scale=1, shrink</pre>
         -to-fit=no">
            <!-- Bootstrap CSS -->
             <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.</pre>
        0.0/css/bootstrap.min.css" integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvT
        Nh0E263XmFcJlSAwiGgFAW/dAiS6JXm" crossorigin="anonymous">
             <title>Dank or Not? - Analyzing and Predicting the Popularity of Memes on
        Reddit</title>
         </head>
                 <style>
            #main-footer
               color: #FFFFFF;
               font-family: "Segoe UI";
               background: #2B2B2B;
               text-align: center;
              margin-top: 125px;
               padding: 16px;
               bottom: 8px;
            }</style>
         <body>
         <div class="container",class="form-group">
                 <h2 >Dank or Not? - Analyzing and Predicting the Popularity of Memes
        on Reddit</h2>
                 <img src="{{url_for('static', filename=predcited[3])}}" width="300" h</pre>
        eight="300" />
                 <h2> Predicted meme :- {{predcited[0]}} </h2>
                 <h2> Predicted probabilty</h2>
                 <h3> Dank :- {{predcited[1]}} </h3>
                  <h3> Not a Dank :- {{predcited[2]}} </h3>
                  <a href="/"><h5 >Click here to move back to the home page</h5 ></a>
            </div>
         </body>
         </html>
```

Requirements.txt

```
In [ ]: absl-py==0.12.0
        astunparse==1.6.3
        cachetools==4.2.2
        certifi==2020.12.5
        chardet==3.0.4
        click==7.1.2
        Flask==1.1.2
        flatbuffers==1.12
        gast==0.3.3
        google-auth==1.30.0
        google-auth-oauthlib==0.4.4
        google-pasta==0.2.0
        grpcio==1.32.0
        gunicorn==20.0.4
        h5py == 2.10.0
        idna==2.10
        itsdangerous==1.1.0
        Jinja2==2.11.3
        Keras-Preprocessing==1.1.2
        Markdown==3.3.4
        MarkupSafe==1.1.1
        numpy = 1.18.5
        oauthlib==3.1.0
        opt-einsum==3.3.0
        Pillow==8.2.0
        protobuf==3.15.8
        pyasn1 == 0.4.8
        pyasn1-modules==0.2.8
        requests==2.23.0
        requests-oauthlib==1.3.0
        rsa==4.7.2
        scipy==1.4.1
        six = 1.15.0
        tensorboard==2.5.0
        tensorboard-data-server==0.6.0
        tensorboard-plugin-wit==1.8.0
        tensorflow==2.3.1
        tensorflow-estimator==2.3.0
        termcolor==1.1.0
        typing-extensions==3.7.4.3
        urllib3==1.25.11
        Werkzeug==1.0.1
        wincertstore==0.2
        wrapt==1.12.1
```