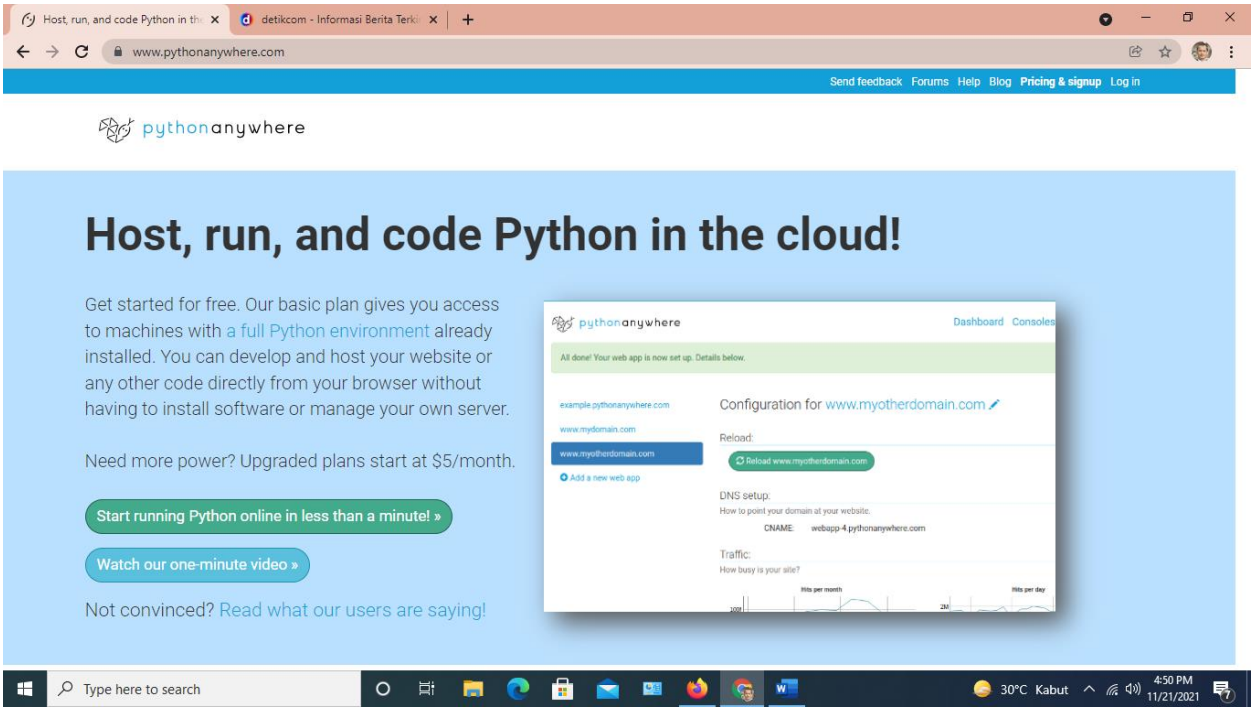
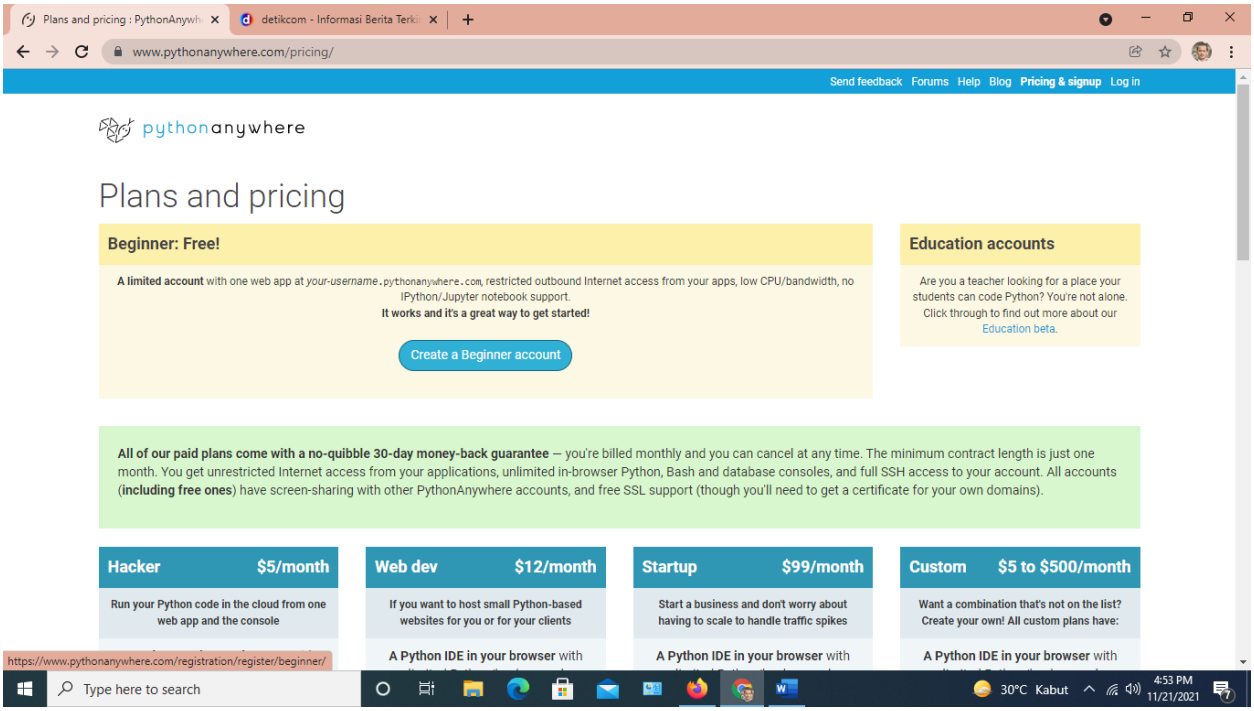
Buka situs pythonanywhere.com



Pilih menu Start running Python online



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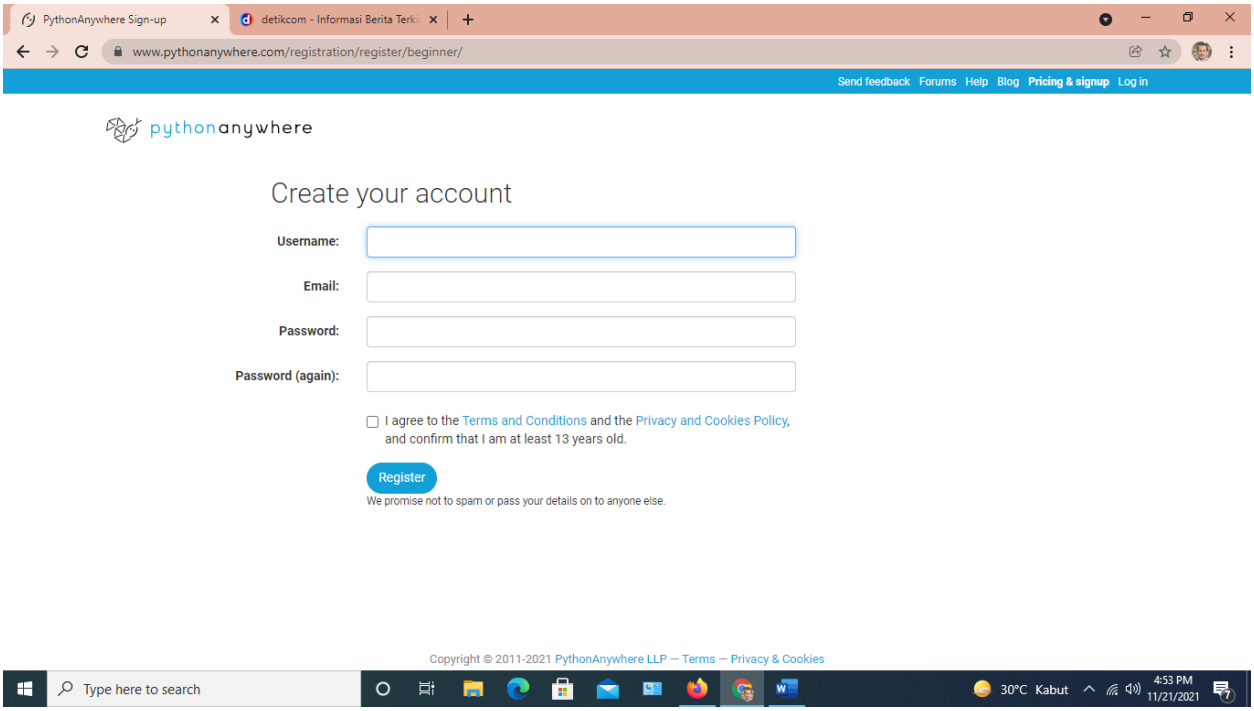
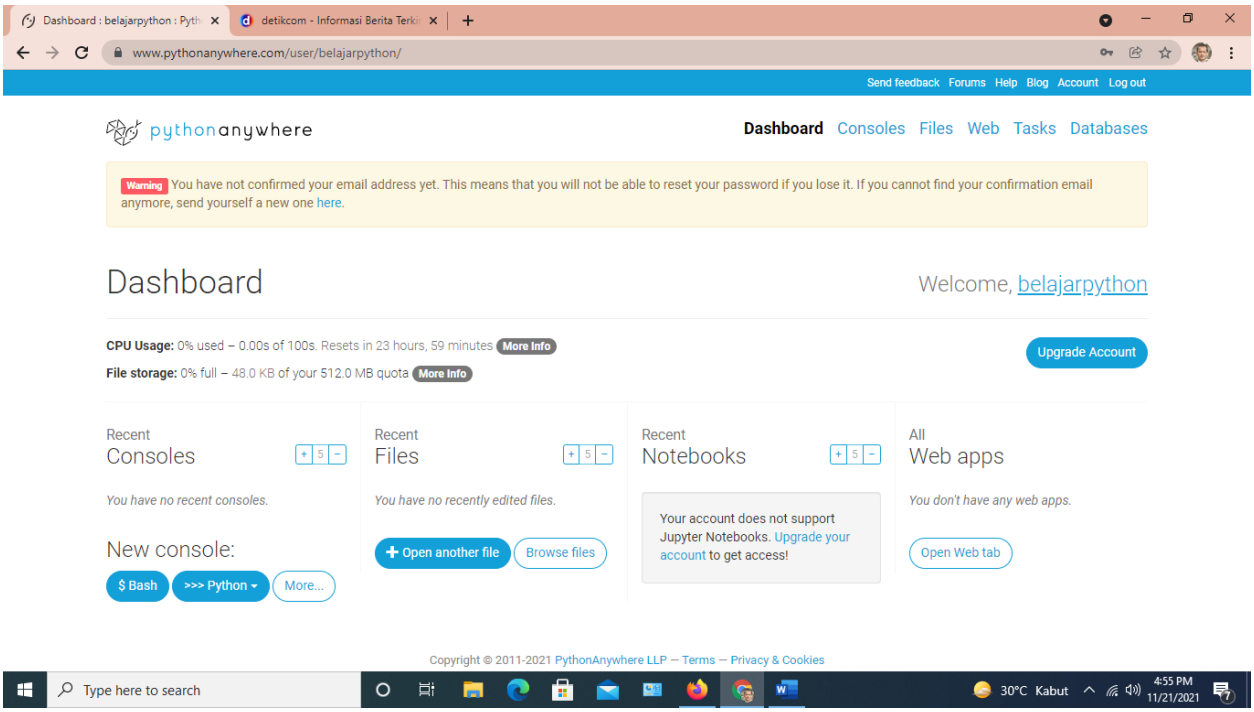
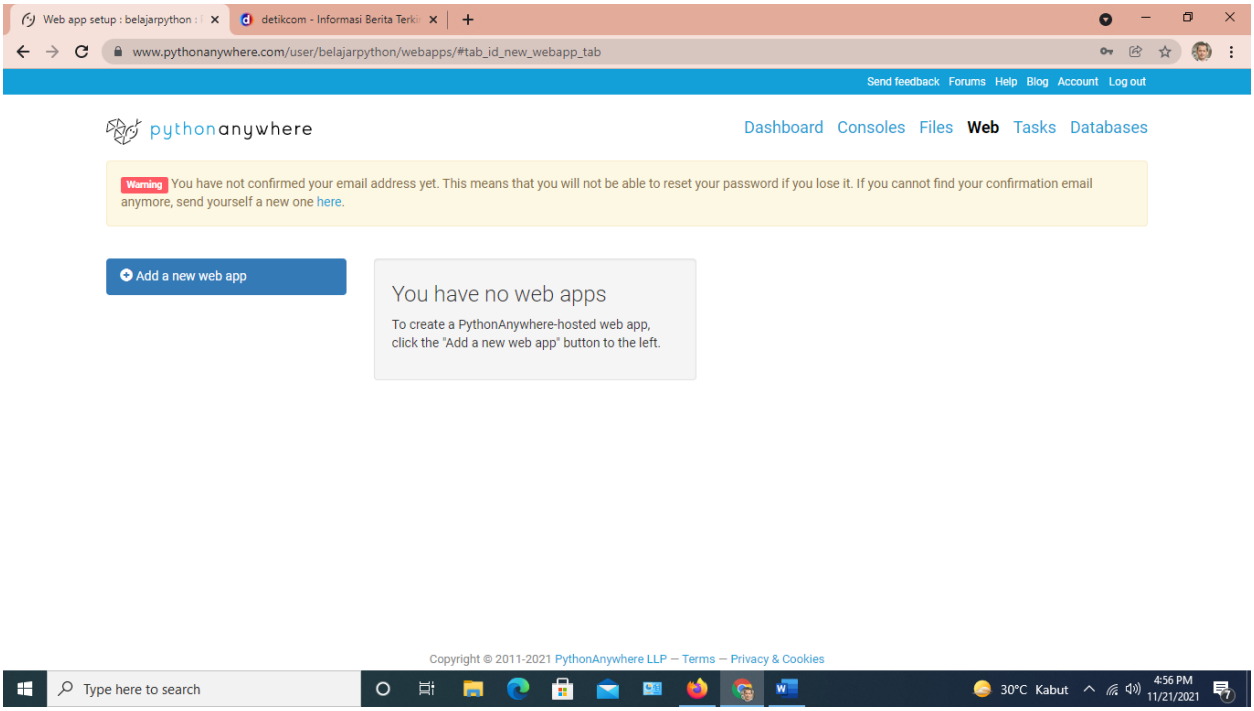
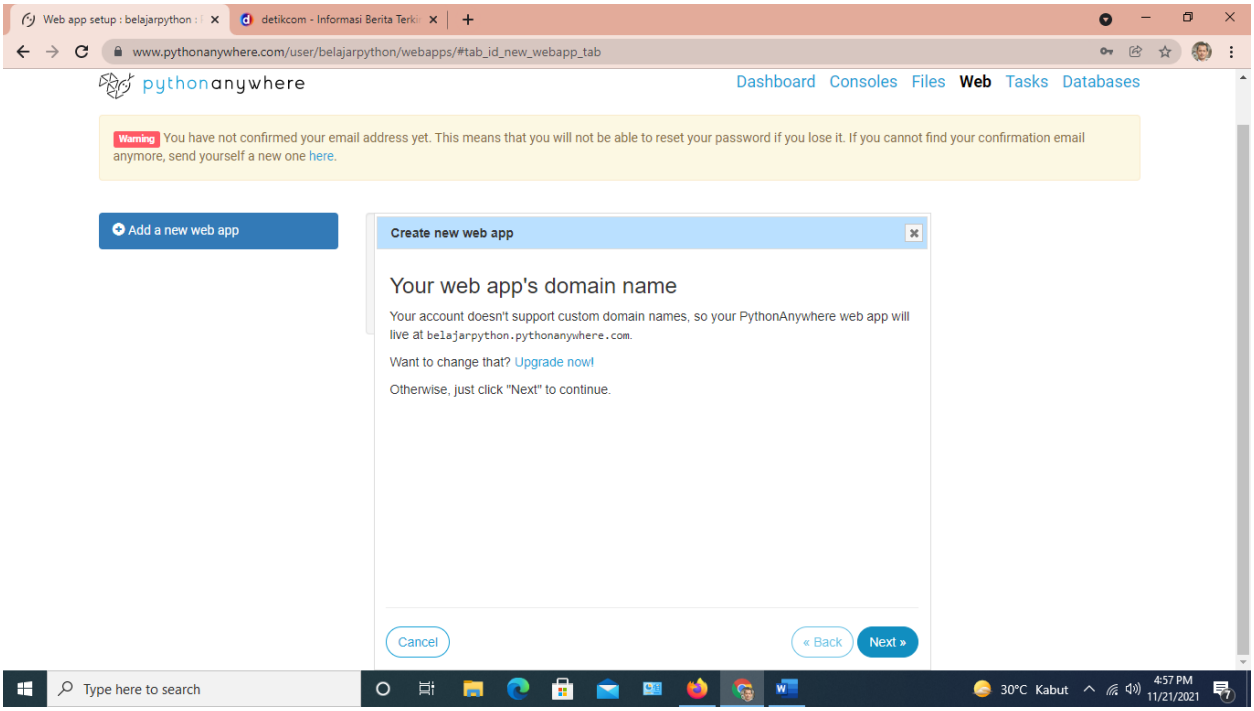


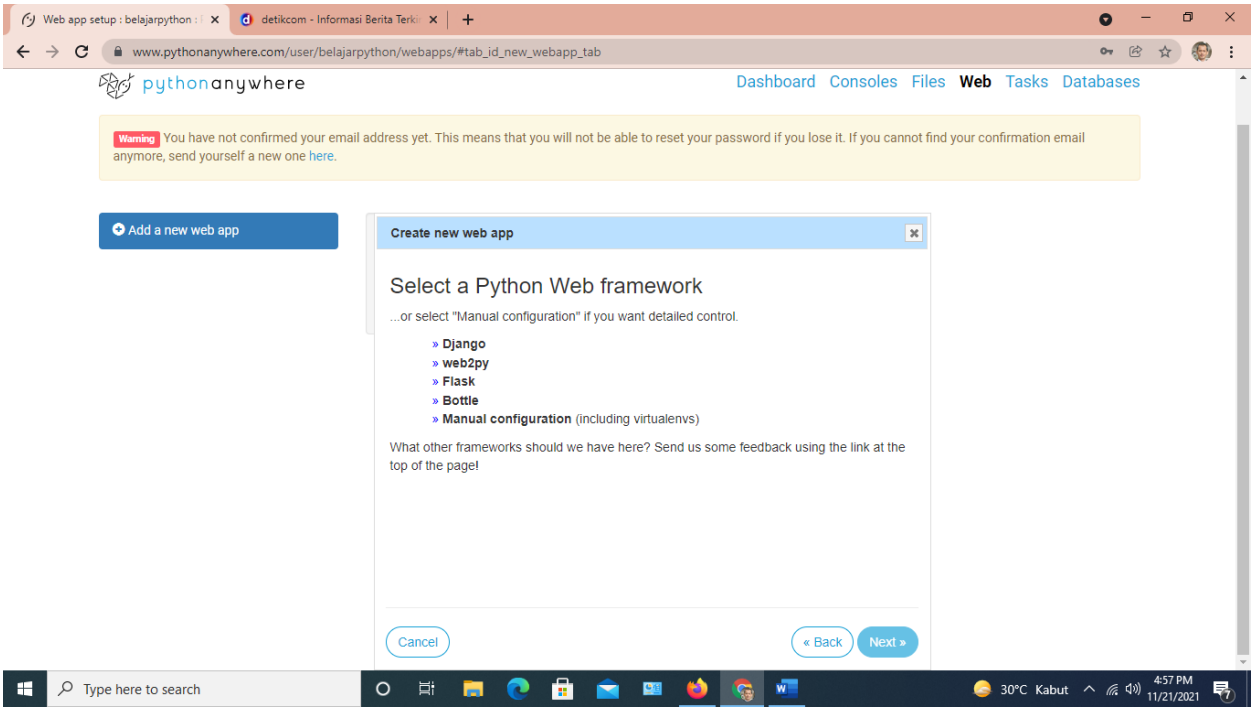


Pilih menu web

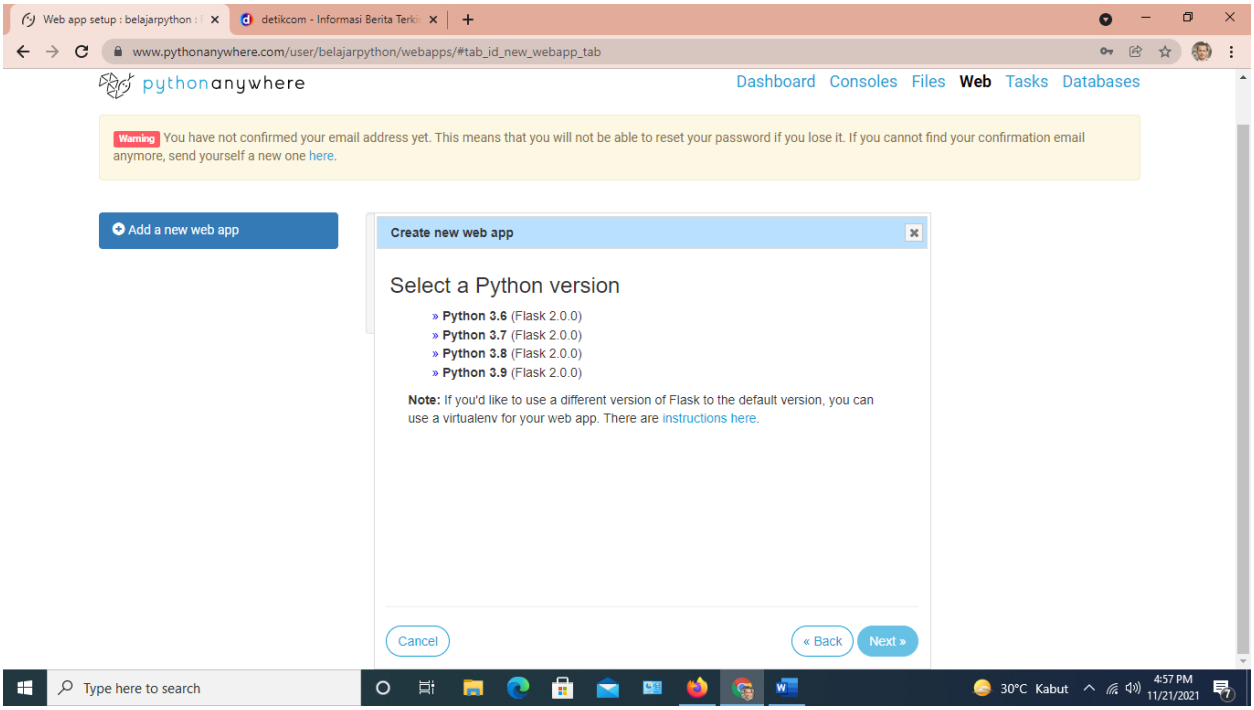


Pilih menud add a new web app

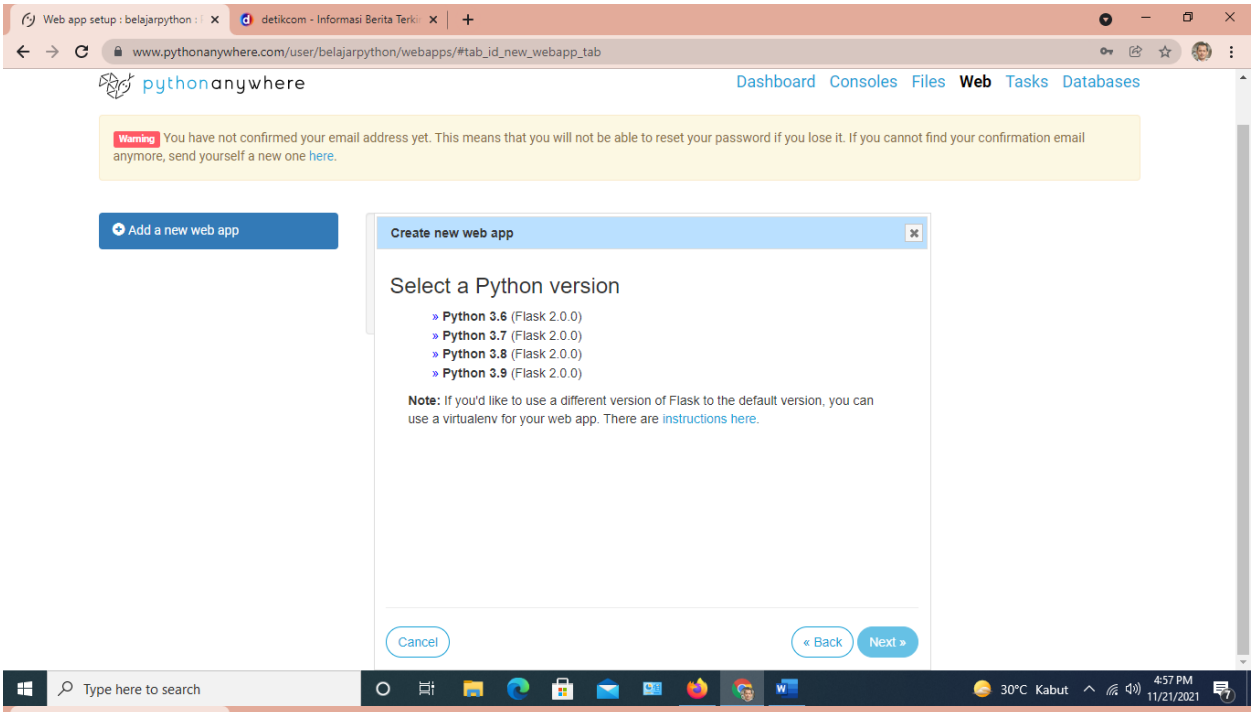




pilih Flask



Pilih Python 3.9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Add a new web app
Create new web app
Select a Python version
» Python 3.6 (Flask 2.0.0)
» Python 3.7 (Flask 2.0.0)
» Python 3.8 (Flask 2.0.0)
» Python 3.9 (Flask 2.0.0)
Note: If you'd like to use a different version of Flask to the default version, you can use a virtualenv for your web app. There are instructions here.
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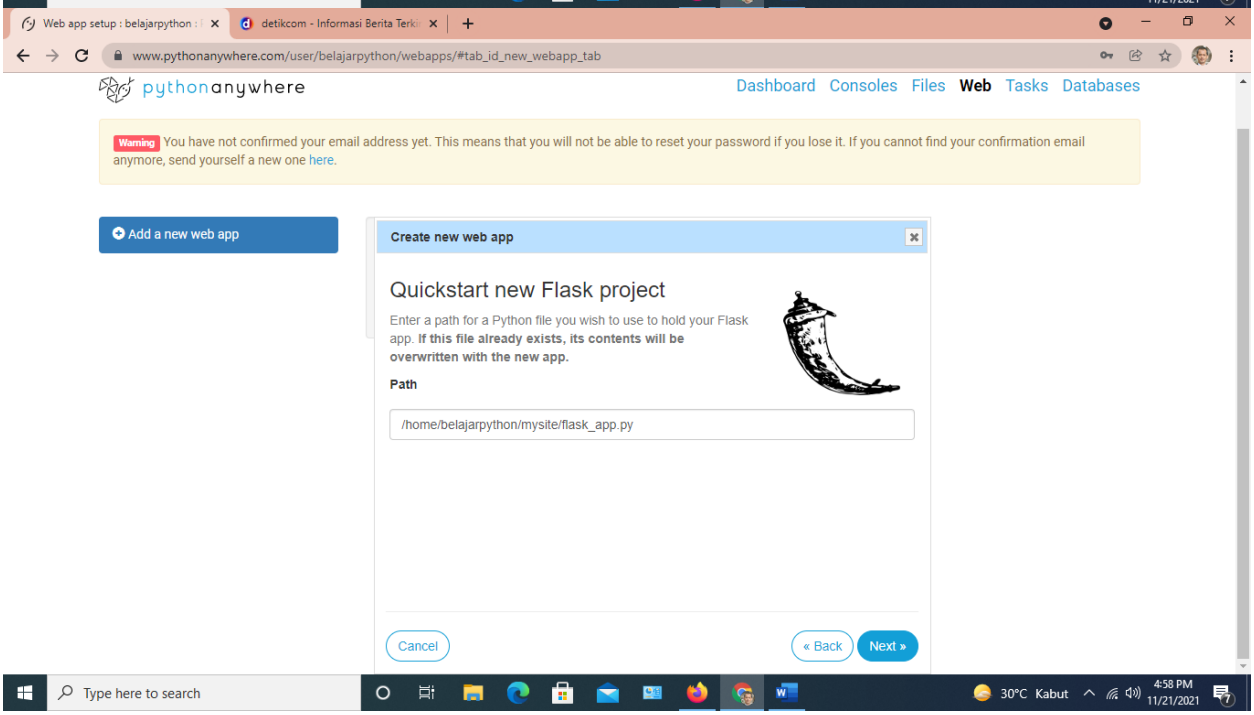
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Create new web app
Quickstart new Flask project
Enter a path for a Python file you wish to use to hold your Flask app. If this file already exists, its contents will be overwritten with the new app.
Path
/home/belajarpython/mysite/flask_app.py
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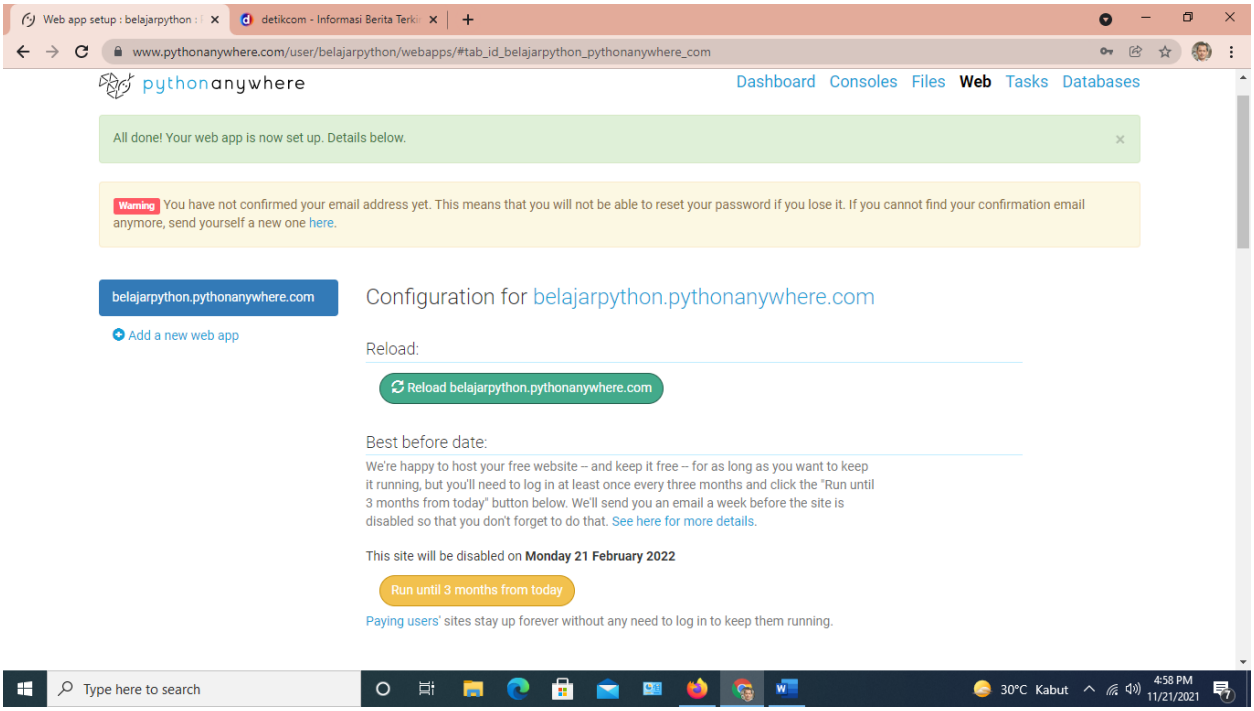
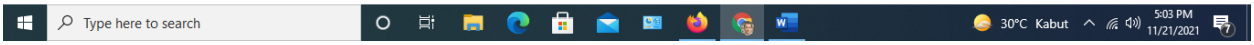
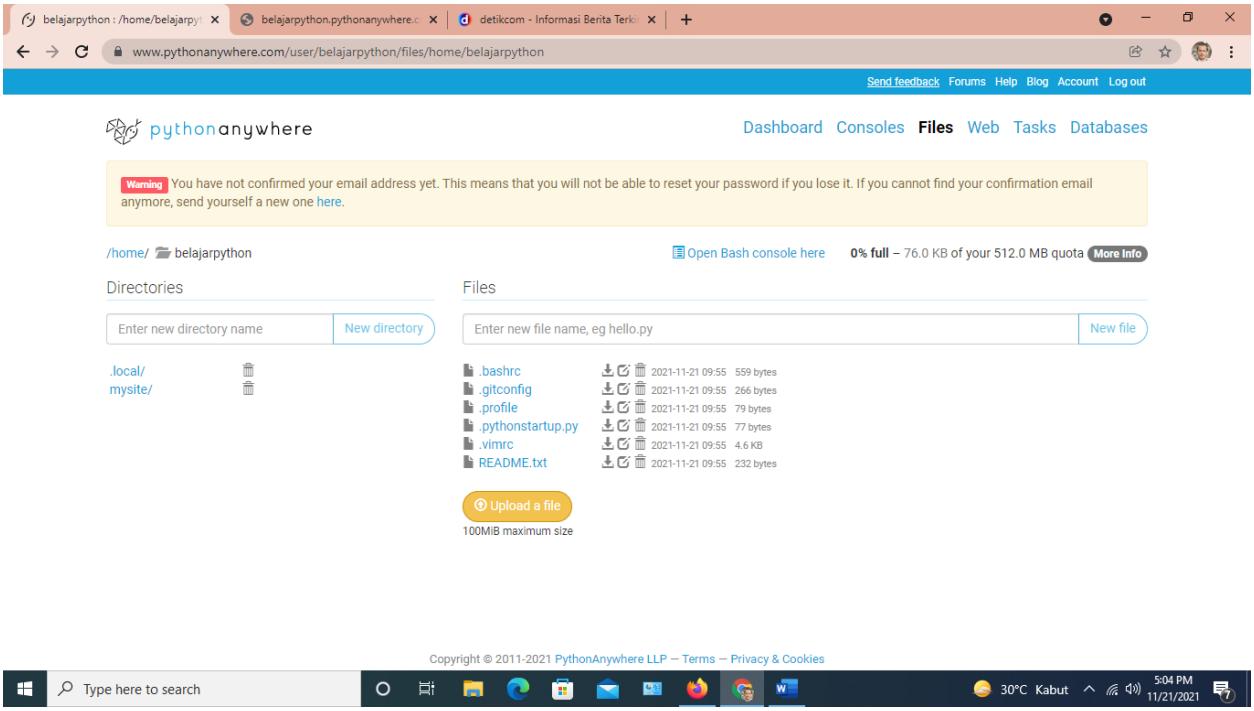


Hello from Flask!

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Open Bash console here
0% full – 76.0 KB of your 512.0 MB quota More Info
Directories
Enter new directory name
New directory
.local/
mysite/
Files
Enter new file name, eg hello.py
New file
.bashrc 2021-11-21 09:55 559 bytes
.gitconfig 2021-11-21 09:55 266 bytes
.profile 2021-11-21 09:55 79 bytes
.pythonstartup.py 2021-11-21 09:55 77 bytes
.vimrc 2021-11-21 09:55 4.6 KB
README.txt 2021-11-21 09:55 232 bytes
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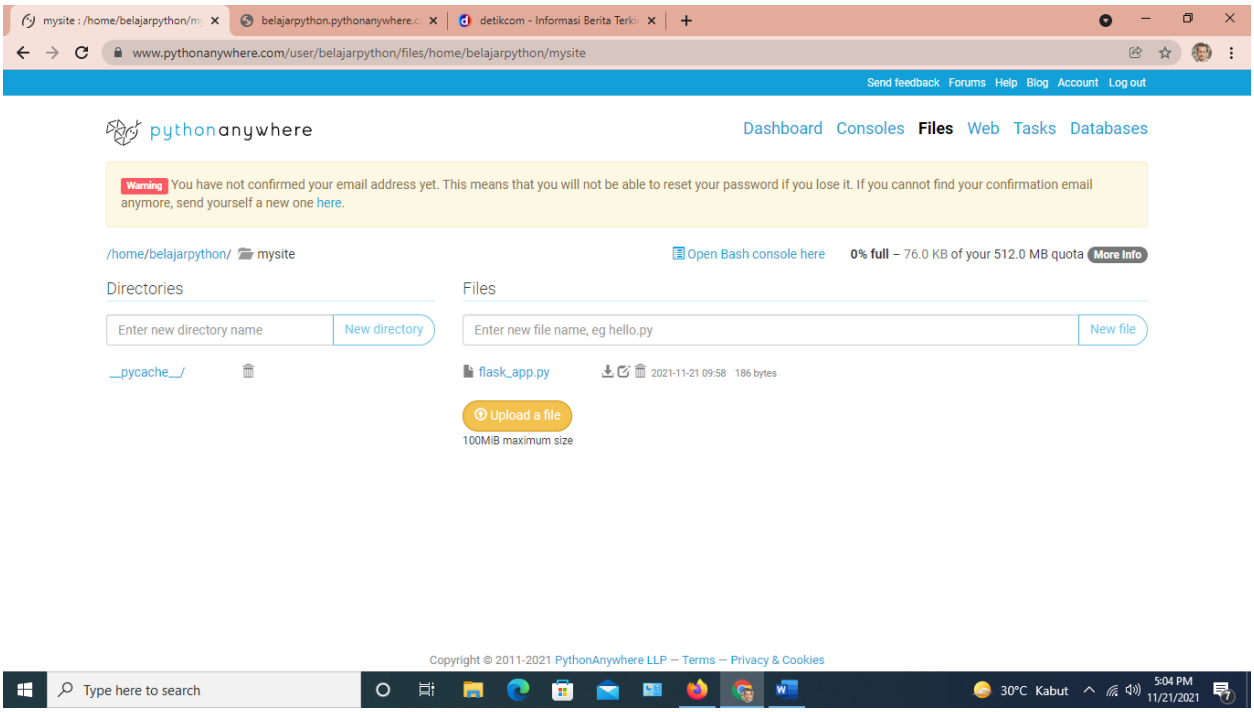
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Open Bash console here
0% full – 76.0 KB of your 512.0 MB quota More Info
Directories
Enter new directory name
New directory
__pycache__/
Files
Enter new file name, eg hello.py
New file
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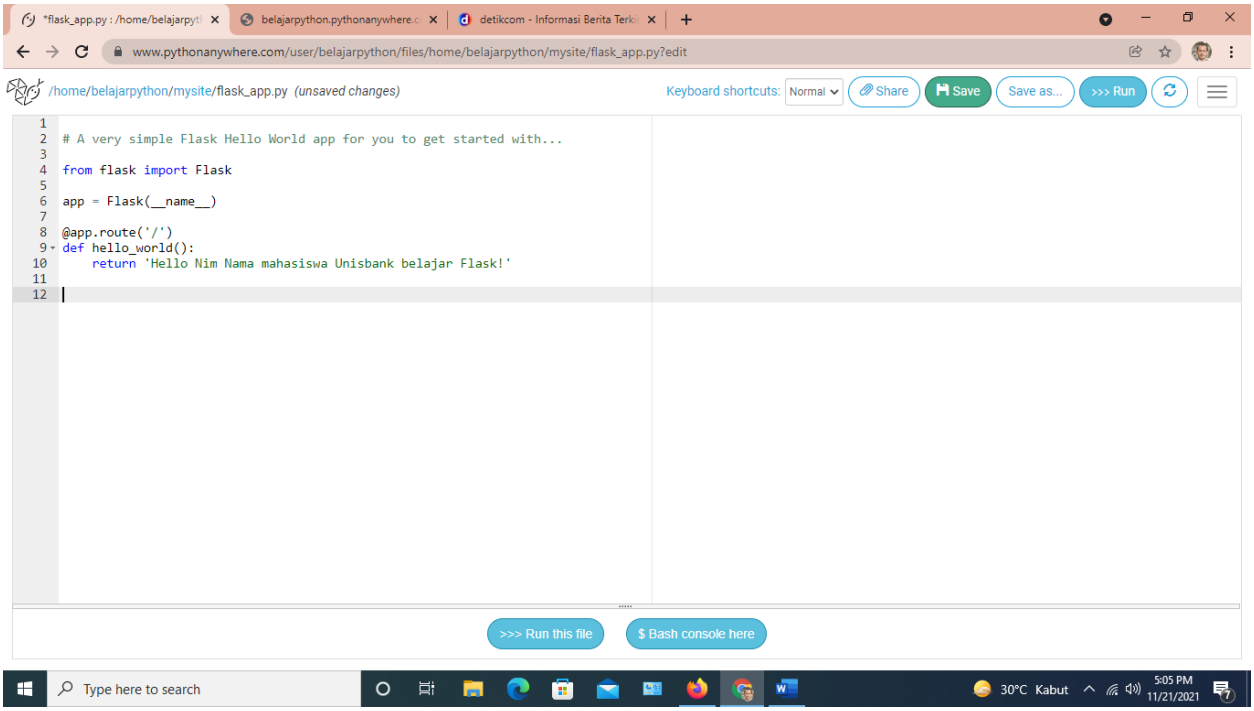
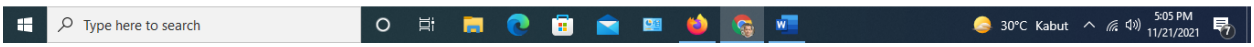


Hello Nim Nama mahasiswa Unisbank belajar Flask!



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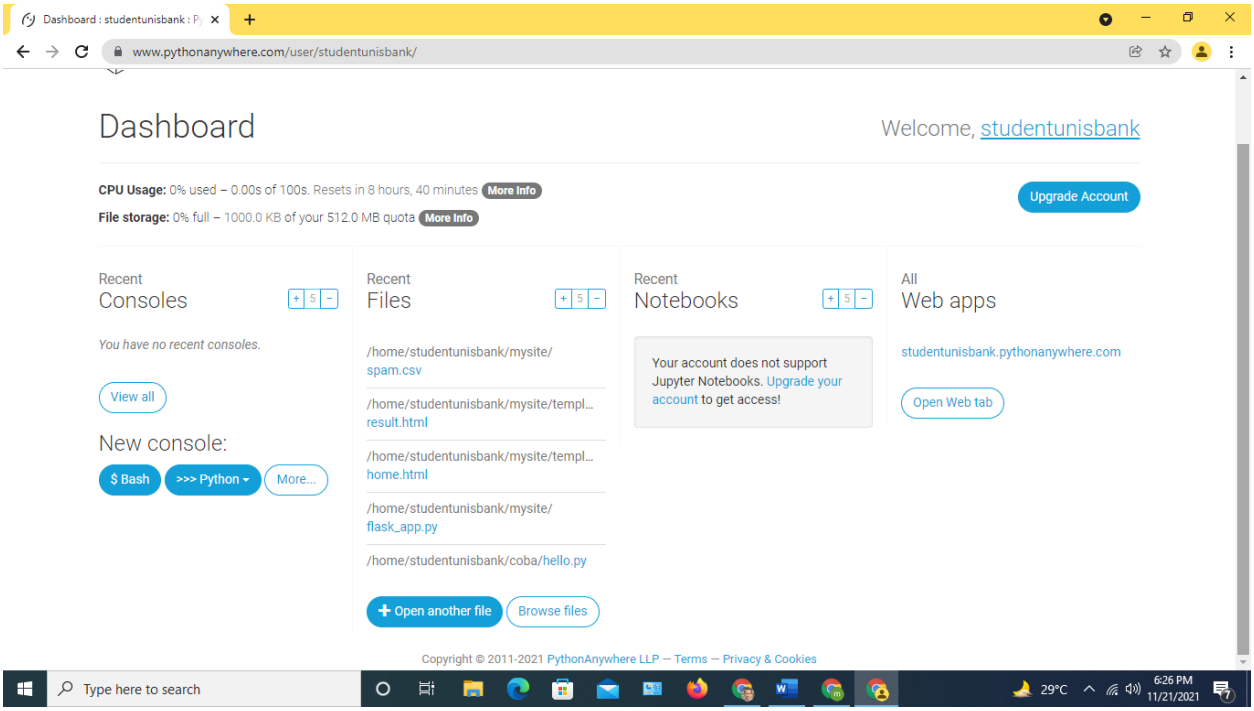

/home/studentunisbank/mysite/flask_app.py

```
from flask import Flask,render_template,url_for,request
import pandas as pd
import pickle
from sklearn.feature_extraction.text import CountVectorizer
from sklearn.naive_bayes import MultinomialNB
from sklearn.externals import joblib


app = Flask(__name__)

@app.route('/')
def home():
        return render_template('home.html')

@app.route('/predict',methods=['POST'])
def predict():
   df = pd.read_csv('/home/studentunisbank/mysite/spam.csv')
   df.drop(['Unnamed: 2', 'Unnamed: 3', 'Unnamed: 4'], axis=1, inplace=True)
   df['label'] = df['class'].map({'ham': 0, 'spam': 1})
   y = df['label']
        # Features and Labels
   X = df['message']
   cv = CountVectorizer()
   X = cv.fit_transform(X)
        # Fit the Data
        # Extract Feature With CountVectorizer
   from sklearn.model_selection import train_test_split
```

```
    X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.33, random_state=42)
        #Naive Bayes Classifier
    clf = MultinomialNB()
    clf.fit(X_train,y_train)
    clf.score(X_test,y_test)
        #Alternative Usage of Saved Model
        # joblib.dump(clf, 'NB_spam_model.pkl')
        # NB_spam_model = open('NB_spam_model.pkl','rb')
        # clf = joblib.load(NB_spam_model)

    if request.method == 'POST':
        message = request.form['message']
        data = [message]
        vect = cv.transform(data).toarray()
        my_prediction = clf.predict(vect)
    return render_template('result.html',prediction = my_prediction)



if __name__ == '__main__':
        app.run(debug=True)
```

/home/studentunisbank/mysite/templates/home.html

```
<!DOCTYPE html>
<html>
<head>
  <title> Welcome </title>
  <link rel="stylesheet" type="text/css" href="/static/style.css">
</head>
<body>

        <header>
                <div class="container">
                <div id="brandname">
                        Machine Learning App with Flask
                </div>
                <h2>Spam Detector For SMS Messages</h2>

        </div>
        </header>

        <div class="ml-container">

                <form action="{{ url_for('predict')}}" method="POST">
                <p>Enter Your Message Here</p>
                <!-- <input type="text" name="comment"/> -->
                <textarea name="message" rows="4" cols="50"></textarea>
                <br/>

                <input type="submit" class="btn-info" value="predict">
```

```
        </form>

        </div>
```

/home/studentunisbank/mysite/templates/result.html

```
<!DOCTYPE html>
<html>
<head>
        <title></title>
   <link rel="stylesheet" type="text/css" href="/static/style.css">
</head>
<body>

        <header>
                <div class="container">
                <div id="brandname">
                        ML App
                </div>
                <h2>Spam Detector For SMS Messages</h2>

        </div>
        </header>
        <p style="color:blue;font-size:20;text-align: center;"><b>Results for Comment</b></p>
        <div class="results">



        {% if prediction == 1%}
        <h2 style="color:red;">Spam</h2>
        {% elif prediction == 0%}
        <h2 style="color:blue;">Not a Spam (It is a Ham)</h2>
        {% endif %}

        </div>
<a href="http://studentunisbank.pythonanywhere.com/">Back</a>
</body>
</html>
```

/home/studentunisbank/style/style.css

```
body{
        font:15px/1.5 Arial, Helvetica,sans-serif;
        padding: 0px;
        background-color:#f4f3f3;
}

.container{
        width:100%;
        margin: auto;
        overflow: hidden;
}
```

```
header{
	background:#03A9F4;#35434a;
	border-bottom:#448AFF 3px solid;
	height:120px;
	width:100%;
	padding-top:30px;

}

.main-header{
				text-align:center;
				background-color: blue;
				height:100px;
				width:100%;
				margin:0px;
			}
#brandname{
	float:left;
	font-size:30px;
	color: #fff;
	margin: 10px;
}

header h2{
	text-align:center;
	color:#fff;

}



.btn-info {background-color: #2196F3;
	height:40px;
	width:100px;} /* Blue */
.btn-info:hover {background: #0b7dda;}


.resultss{
	border-radius: 15px 50px;
  background: #345fe4;
  padding: 20px;
  width: 200px;
  height: 150px;
}
```