

Team ID	PNT2022TMID41253
Project Name	A Novel Method For Handwritten Digit Recognition System

SPRINT – 1

dbworks.py

```
import sqlite3 as sql
```

```
con = sql.connect('database.db')
```

```
def insertUser(Username, Password, Email):
```

```
    try:
```

```
        con = sql.connect('database.db')
```

```
        cur = con.cursor()
```

```
        cur.execute("INSERT INTO USER (USERNAME,PASSWORD,EMAIL,HISTORY) VALUES  
        (?,?,,?)", (Username, Password, Email,""))
```

```
        con.commit()
```

```
        con.close()
```

```
        return True
```

```
    except:
```

```
        return False
```

```
def retrieveUsers(Email):
```

```
    try:
```

```
        con = sql.connect('database.db')
```

```
        cur = con.cursor()
```

```
cur.execute("SELECT * FROM USER WHERE EMAIL = '"+ Email +"'");
user = cur.fetchall()
con.close()
return user
except:
    return False
```

schema.sql

```
DROP TABLE IF EXISTS USERTABLE;
CREATE TABLE USER (
ID INTEGER PRIMARY KEY AUTOINCREMENT,
USERNAME TEXT NOT NULL,
PASSWORD TEXT NOT NULL,
EMAIL TEXT NOT NULL,
HISTORY TEXT
);
```

app.py

```
from flask import (Flask,
render_template,
request,
redirect,
url_for,
session)
```

```
from flask_session import Session

import dbworks as db

app = Flask(__name__, static_url_path='/static')

app.config["SESSION_PERMANENT"] = False
app.config["SESSION_TYPE"] = "filesystem"
Session(app)

@app.route('/')
@app.route('/Get_Started')
def getStarted():
    try:
        del session['user']
    except:
        pass
    return render_template('home.html')

@app.route('/Authentication', methods = ['POST','GET'])
def Authorize():

    if request.method == "POST":
        if request.form["type"] == "Login":
            email = request.form["email"]
            password = request.form["password"]
            user = db.retreiveUsers(email)
            if user == []:
```

```

        return render_template('Authentication.html', msg="User Doesnot Exist")
    if user[0][3] != password:
        return render_template('Authentication.html', msg="Incorrect Password")
    session['user'] = user;
    return redirect(url_for('uploadpage'))

elif request.form["type"] == "Signup":
    username = request.form["username"]
    email = request.form["email"]
    password = request.form["password"]
    if password != request.form["cpassword"] and " " in [username,email,password]:
        return render_template('Authentication.html', msg="Invalid Data")
    if db.retreiveUsers(username) != []:
        return render_template('Authentication.html', msg="User Already Exist")
    ack = db.insertUser(username, email, password)
    if not ack:
        return render_template('Authentication.html', msg="Invalid Data")
    return render_template('Authentication.html', msg="Successfully Signed In")

return render_template('Authentication.html')

```

base.html

```

<!DOCTYPE html>

<html>

<head>

```

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<title>

{%block title%}

{%endblock%}

</title>

<link rel="stylesheet"

href="https://cdn.jsdelivr.net/npm/bootstrap@4.3.1/dist/css/bootstrap.min.css"

integrity="sha384-

ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T"

crossorigin="anonymous">

<script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-

q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"

crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/popper.js@1.14.7/dist/umd/popper.min.js"

integrity="sha384-

UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1"

crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.3.1/dist/js/bootstrap.min.js"

integrity="sha384-

JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/njGzlxFDsf4x0xIM+B07jRM"

crossorigin="anonymous"></script>

<link href="{{url_for('static', filename = 'style.css')}}" rel="stylesheet">

<script type="text/javascript" src="{{url_for('static', filename = 'javascript.js')}}"></script>

<style type="text/css">

{% block style%

{% endblock %}

</style>

</head>

<body onload=" {%block bodyelement%} {%endblock%} ">

<nav class="nav-bar">

<h1 class="title2" id="basetitle">Trucnket</h1>

<div id="nav-bar-buttons">

<button class="btn nav-btn btn-outline-primary" >Log Out</button>

</div>

</nav>

{%block content1%}

{%endblock%}

{%block authentication%}

{%endblock%}

{%block uploadform%}

```
{%endblock%}
```

```
</body>
```

```
</html>
```

home.html

```
{%extends 'base.html'%}
```

```
{%block title%
```

```
    HomePage
```

```
{%endblock%}
```

```
{%block style%
```

```
.nav-bar{
```

```
    display : None;
```

```
}
```

```
{%endblock%}
```

```
{%block content1%
```

```
<div id="home-sector">
```

```
<div>
```

```
<div class="ball" id="blueball">
```

```
    <h1 id="title1">A NOVEL METHOD FOR HANDWRITTEN DIGIT RECOGNITION  
    SYSTEM</h1>
```

```
<a href="{{url_for('Authorize')}}"><button type="button" class="btn btn btn-primary"
    id="getstarted">Get Started</button></a>

</div>

<div class="ball" id="grayball"></div>

</div>

<div id="Aimage-box"><h1 class ="title2">Trucnket</h1></div>

</div>

{%endblock%}
```

Authentication.html

```
{% extends 'base.html' %}
```

```
{% block title%
```

```
    Authentication
```

```
{% endblock %}
```

```
{%block style%
```

```
body{
```

```
    background-image: linear-gradient(to right, #045DE9 , #09C6F9);
```

```
}
```

```
.nav-bar{
```

```
    display:none;
```

```
}
```

```
#title2{
```

```
    color: white;
```

```
    text-shadow: 1px 1px 13px black;
```



```
}
```

```
{%endblock%}
```

```
{% block authentication %}
```

```
<div id="auth-sector">
```

```
<h1 class="title2">Trucnket</h1>
```

```
<div class="line"></div>
```

```
<div class="Authorizebox" id="Login">
```

```
    <div class="active whitescreen" id="loginscreen" onclick="swipeup()" >Login</div>
```

```
<h1 class="auth-title">Login</h1><br>
```

```
<form action="{{url_for('Authorize')}}" method="POST" id="loginform" class="auth-  
form">
```

```
    <input type="hidden" name="type" value="Login">
```

```
    <label>
```

```
        <input type="type" name="email" class="form-control"  
placeholder="Username" required></label><br>
```

```
    <label>
```

```
        <input type="password" name="password" class="form-control"  
placeholder="Password" required></label><br>
```

```
    <input type="submit" value="Submit" class="btn btn-success submit">
```

</form>

</div>

<div class="line1"></div>

<div class="Authorizebox" id="signup">

<div class="whitescreen" id="signupscreen" onclick="swipeup()" >Signup</div>

<h1 class="auth-title">Signup</h1>

<form action="{{url_for('Authorize')}}" method="POST" id="signupform"
class="auth-form">

<div id="firsthalf">

<input type="hidden" name="type" value="Signup">

<label>

<input type="text" name="username" class="form-control"
placeholder="Username" required></label>

<label>

<input type="email" name="email" class="form-control"
placeholder="Email" required></label>


```
        <button type="button" class="btn btn-success submit"
onclick="moveinputsignup()">Next</button>
```

```
    </div>
```

```
    <div id="passhalf">
```

```
        <label>
```

```
            <input type="password" name="password" class="form-control"
placeholder="Password" required></label><br>
```

```
        <label>
```

```
            <input type="password" name="cpassword" class="form-
control" placeholder="Confirm Password" required></label><br>
```

```
            <input type="submit" value="Submit" class="btn btn-success submit">
```

```
    </div>
```

```
</form>
```

```
</div>
```

```
</div>
```

```
<span style="color:white">{{msg}}</span>
```

```
{% endblock %}
```