# Project Development Phase Delivery of Sprint-1

Date	2November 2022
Team ID	PNT2022TMID02538
Project Name	Inventory Management System For Retailer

## app.py creating flak application

```
from flask import Flask, render_template, url_for, redirect
from flask sqlalchemy import SQLAlchemy
from flask_login import UserMixin, login_user, LoginManager, login_required, logout_user,
current user
from flask_wtf import FlaskForm
from wtforms import StringField, PasswordField, SubmitField
from wtforms.validators import InputRequired, Length, ValidationError
from flask bcrypt import Bcrypt
from flask import Flask, render template, redirect, url for, session
from flask_sqlalchemy import SQLAlchemy
from flask_migrate import Migrate, MigrateCommand
from flask script import Manager
from flask uploads import UploadSet, configure uploads, IMAGES
from flask wtf import FlaskForm
from wtforms import StringField, IntegerField, TextAreaField, HiddenField, SelectField
from flask_wtf.file import FileField, FileAllowed
from flask_mail import Mail, Message
import random
import smtplib
app = Flask(__name__)
db = SOLAlchemy(app)
@login_manager.user_loader
def load_user(user_id):
 _bind key ='two'
 return User.query.get(int(user_id))
class User(db.Model, UserMixin):
  bind kev ='two'
 id = db.Column(db.Integer, primary_key=True)
 username = db.Column(db.String(40), nullable=False, unique=True)
  password = db.Column(db.String(80), nullable=False)
class RegisterForm(FlaskForm):
  bind key ='two'
 username = StringField(validators=[
           InputRequired(), Length(min=4, max=40)], render_kw={"placeholder": "Username"})
 password = PasswordField(validators=[
             InputRequired(), Length(min=8, max=20)], render_kw={"placeholder": "Password"})
```

```
submit = SubmitField('Register')
 def validate_username(self, username):
    _bind key ='two'
    existing_user_username = User.query.filter_by(
     username=username.data).first()
    if existing_user_username:
     raise ValidationError(
        'That username already exists. Please choose a different one.')
class LoginForm(FlaskForm):
  _bind_key_='two'
 username = StringField(validators=[
            InputRequired(), Length(min=4, max=40)], render_kw={"placeholder": "Username"})
 password = PasswordField(validators=[
              InputRequired(), Length(min=8, max=20)], render_kw={"placeholder": "Password"})
 submit = SubmitField('Login')
@app.route('/')
def home():
 return render_template('home.html')
@app.route('/login', methods=['GET', 'POST'])
def login():
 form = LoginForm()
 if form.validate on submit():
    user = User.query.filter_by(username=form.username.data).first()
    if user:
     if bcrypt.check_password_hash(user.password, form.password.data):
        login_user(user)
        return redirect(url_for('index'))
 return render_template('login.html', form=form)
@app.route('/dashboard', methods=['GET', 'POST'])
@login_required
def dashboard():
 return render_template('dashboard.html')
@app.route('/logout', methods=['GET', 'POST'])
@login_required
def logout():
 logout_user()
 return redirect(url_for('login'))
@ app.route('/register', methods=['GET', 'POST'])
```

```
def register():
  __bind_key__='two'
 form = RegisterForm()
 if form.validate_on_submit():
   hashed_password = bcrypt.generate_password_hash(form.password.data)
   new_user = User(username=form.username.data, password=hashed_password)
   db.session.add(new_user)
   db.session.commit()
   return redirect(url_for('login'))
 return render_template('register.html', form=form)
if __name__ == "__main__":
 app.run(debug=True)
 TEMPLATES:
 base, html
  <!DOCTYPE html>
  <html lang="en">
   <head>
     <meta charset="utf-8">
     <meta name="viewport" content="width=device-width, initial-scale=1">
  k href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
  rel="stylesheet" integrity="sha384-
  EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC"
  crossorigin="anonymous">
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"</pre>
 integrity="sha384-
  MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM"
  crossorigin="anonymous"></script>
  <!-- <li>k rel="stylesheet" href="{{url_for('static', filename='css/style.css')}}"> -->
  {% block head%}{% endblock %}
  </head>
  <body>
   <div class="container mt-5">
     {% block body %} {% endblock %}
    </div>
  </body>
  </html>
```

#### index.html- Dashboard page

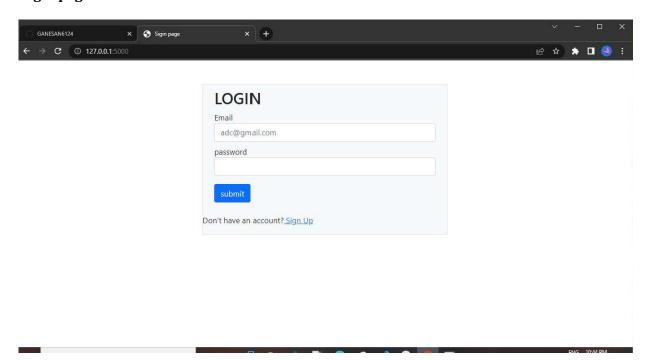
```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta http-equiv="X-UA-Compatible" content="IE=edge">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Sidebar Menu</title>
 <link href='https://unpkg.com/boxicons@2.0.9/css/boxicons.min.css' rel='stylesheet'>
 <link rel="stylesheet" href="static/css/style.css">
</head>
<body>
<nav>
 <div class="search">
   <i class='bx bx-search'></i>
   <input type="text" class="hide" placeholder="Quick Search ...">
 </div>
 <div class="sidebar-links">
   <div class="active-tab"></div>
   class="tooltip-element" data-tooltip="0">
    <a href="#" class="active" data-active="0">
      <div class="icon">
       <i class='bx bx-tachometer'></i>
      <i class='bx bxs-tachometer'></i>
      <span class="link hide">Dashboard</span>
    </a>
    class="tooltip-element" data-tooltip="1">
    <a href="#" data-active="1">
      <div class="icon">
      <i class='bx bx-folder'></i>
      <i class='bx bxs-folder'></i>
      </div>
      <span class="link hide">Products</span>
    </a>
    class="tooltip-element" data-tooltip="2">
    <a href="#" data-active="2">
      <div class="icon">
      <i class='bx bx-message-square-detail'></i>
       <i class='bx bxs-message-square-detail'></i>
      <span class="link hide">Add items</span>
     </a>
```

```
class="tooltip-element" data-tooltip="3">
  <a href="#" data-active="3">
    <div class="icon">
    <i class='bx bx-bar-chart-square'></i>
    <i class='bx bxs-bar-chart-square'></i>
    </div>
    <span class="link hide">Remove items</span>
  </a>
  <div class="tooltip">
  <span class="show">Dashboard</span>
  <span>Projects</span>
  <span>Messages</span>
   <span>Analytics</span>
  </div>
 class="tooltip-element" data-tooltip="1">
  <a href="#" data-active="5">
    <div class="icon">
    <i class='bx bx-help-circle'></i>
    <i class='bx bxs-help-circle'></i>
    </div>
    <span class="link hide">Help</span>
  </a>
  class="tooltip-element" data-tooltip="2">
  <a href="#" data-active="6">
    <div class="icon">
    <i class='bx bx-cog'></i>
    <i class='bx bxs-cog'></i>
    </div>
    <span class="link hide">Settings</span>
  </a>
  <div class="tooltip">
  <span class="show">Tasks</span>
  <span>Help</span>
   <span>Settings</span>
  </div>
 </div>
<div class="sidebar-footer">
 <a href="#" class="account tooltip-element" data-tooltip="0">
 <i class='bx bx-user'></i>
 <div class="admin-user tooltip-element" data-tooltip="1">
 <div class="admin-profile hide">
  <img src="./img/face-1.png" alt="">
   <div class="admin-info">
    <h3>Ganesh</h3>
    <h5>user</h5>
   </div>
```

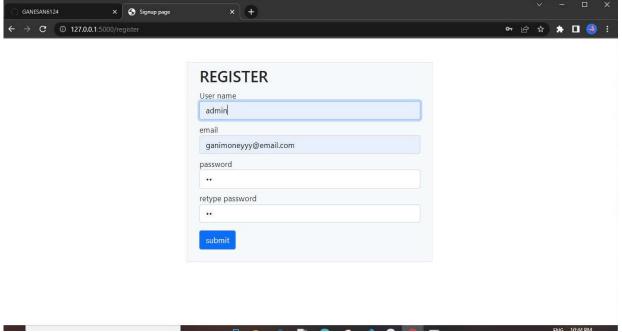
```
</div>
    <a href="#" class="log-out">
    <i class='bx bx-log-out'></i>
   </a>
   </div>
   <div class="tooltip">
   <span class="show">Ganesh</span>
   <span>Logout</span>
   </div>
 </div>
 </nav>
 <main>
 <h1>My Dashboard</h1>
  </main>
 <script src="static/js/app.js"></script>
</body></html>
signin.html -sigin page
{% extends 'base.html '%}
{% block head %}
<title>Sigin page</title>
{% endblock%}
{%block body%}
<main class="container">
 <div class="mx-auto mt-5 border bg-light" style="width:500px;">
 <h2 class='mx-4 mt-2'>LOGIN</h2>
 <form action="{{url_for('login') }}" method="post">
    <div class="mx-4 mt-2 text-danger">{{ msg }}</div>
   <div class="my-2 mx-4">
     <label for="username">username</label>
     <input type="text" class="form-control" placeholder="adc@gmail.com" name="username"</pre>
required />
   </div>
   <div class="my-2 mx-4">
     <label for="password_1">password</label>
     <input type="password" class="form-control" name="password_1" required />
    </div>
   <input type="submit" value="submit" class="btn btn-primary my-4 mt-2 mx-4"/>
  >Don't have an account?<a href="{{ url_for('accessbackend') }}"> Sign
Up</a></div></main>
</main>
{% endblock%}
signup.html-Registration page
{% extends 'base.html '%}
{% block head %}
```

```
<title>Signup page</title>
{% endblock%}
{%block body%}<main class="container">
  <div class="mx-auto mt-5 border bg-light" style="width: 500px;">
  <h2 class="mx-4 mt-2">REGISTER FORM</h2>
  <div class="mx-4 mt-2 text-danger">{{ meg }}</div>
  <form action="{{url_for('accessbackend') }}" method="post">
<div class="my-2 mx-4">
      <label for="username">User name</label>
      <input type="text" class="form-control" placeholder="Ram" name="username" required/>
    </div>
    <div class="my-2 mx-4">
      <label for="email">email</label>
      <input type="text" class="form-control" placeholder="abc@gmail.com" name="email"
required/>
    </div>
    <div class="my-2 mx-4">
      <label for="password">password</label>
      <input type="password" class="form-control" placeholder="password" name="password"</pre>
required/>
    </div>
    <div class="my-2 mx-4">
      <label for="retype">retype password</label>
      <input type="password" class="form-control" placeholder="password" name="retype"
required/>
    </div>
    <input type="submit" value="submit" class="btn btn-primary my-4 my-2 mt-2 mx-4" />
    <div class="note mt-3 text-center"> <!--Register form -->
       already have an account ? please <a href="/signin">signin! </a> 
      </div>
  </form>
  </div>
</main>
{% endblock%}
```

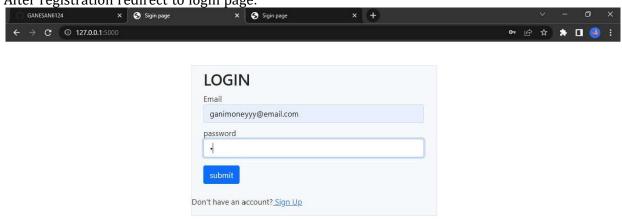
### Output: Login page



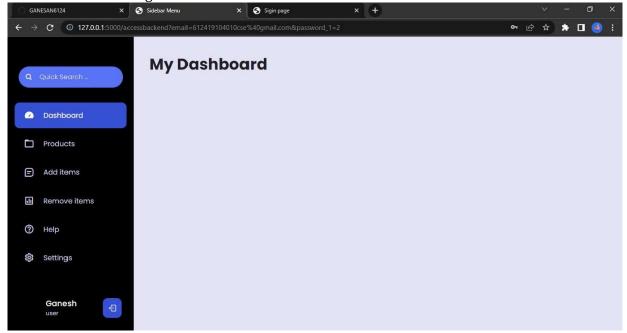
Registraion page:



After registration redirect to login page:



After the successful login redirect to the dashboard:



#### Email comfirmation:

