IS601 Final Project

Step1 Creating Your First Flask Application

In this step, create first flask template with basic code

```
13 lines (9 sloc) | 205 Bytes

1    from flask import Flask, render_template
2
3
4    # Create Flask's `app` object
5    app = Flask(
6        __name__,
7     template_folder="templates"
8    )
9
10
11    @app.route("/")
12    def hello():
13       return render_template("index.html")
```

Step2 Rendering Pages in Flask Using Jinja

```
In this step, create front html with jinja
 ■ IS601Project4 C:\Users\dejin\PycharmP 1
                             {% extends "layout.html"

✓ ■ арр
                             {% block content %}
    static
                             <table_class="table">
     📶 edit.html
      index.html
                                   Index
                                   Year
     🚚 login.jinja2
                                  Age
                                  Name
      📇 view.html
                                   Movie
                                   Note
    🛵 app.py
    a config.py
                                = Dockerfile
                                </thead>
    forms.py
    frequirements.txt
                                {% for osc in oscar %}
 ∨ 🖿 db
                                   <a href="view {{osc.id}}">{{ osc.sIndex }}}/a>
   agitignore
                                   {{ osc.sYear }} //td>
                                   {{ osc.sAge }}
                                   {{ osc.sName }}
 Scratches and Consoles
                                   {{ osc.sMovie }}
                                   {{ osc.sNote }}
```

Step3. Handling Forms in Flask with Flask-WTF

In this step, build login and sign up template forms and jinja for later use.

```
✓ IS601Project4 C:\Users\dejin\PycharmP 1
  🗸 🖿 арр
                                          from flask_wtf import FlaskForm
                                          from wtforms import StringField, PasswordField, SubmitField

✓ limit templates

        edit.html
                                              DataRequired,
         ayout.html
         anew.html
       🛵 app.py
       📇 Dockerfile
                                          class SignupForm(FlaskForm):
       forms.py
       frequirements.txt
                                              name = StringField(
    le dh
    🐔 config.py
                                              email = StringField(
    提 docker-compose.yml
  Scratches and Consoles
```

Step4 The Art of Routing in Flask Step 9 Connect Flask to a Database with Flask-SQLAlchemy

These two steps are combined as we already build these two parts in project3

```
| Scott | Spot |
```

Step5. Configuring Your Flask App

In this step, configuring py are built and sql configuring coded.

```
✓ limit templates

                                       class config:
      edit.html
                                           MYSQL_DATABASE_USER = 'root
                                           MYSQL_DATABASE_PASSWORD = 'root'
                                           MYSQL_DATABASE_PORT = 3306
    🐍 арр.ру
    🐔 config.py
    forms.py
 ■ db
  agitignore
 adocker-compose.yml
Scratches and Consoles
```

Step6. Demystifying Flask's Application Factory

In this step, app.py was separated to organized .py files, as init .py , wsgi.py, and routes.py

```
🔳 ... 🔻 😯 \Xi 😤 💠 — erfile × 🛝 console [oscarData@localhost] × 🏭 init.sql × 🤼 console [oscarData@localhost [2]] × 🐉 _init_py × 🐉 wsgi.py × 🕶 Datab
✓ IS601Project4 C:\Users\d
  🗸 🛅 арр
       static
                                db = SQLAlchemy()
     > templates
        🐔 _init_.py
        🐍 config.py
                                 pd(f init_app():
                                        ""Initialize the core application."""
        🀔 forms.py
                                    app = Flask(__name__)
mysql = MySQL(cursorclass=DictCursor)
app.config.from_object('config.Config')
        frequirements.txt
        🏀 routes.py
        wsgi.py
     ■ db
                                      mysql.init_app(app)
> Konsoles
```

Step7. Organizing Flask Apps with Blueprints

In this step, we use blueprint to manage app structure.

```
🚦 requirements.txt × 🐔 _init_.py × 🐔 models.py
                                                                                        🗂 signup.jinja2
                                                                            🐔 forms.py >
✓ IS601Project4 C:\Users\dejin\Pycha 14
 🗸 🖿 арр
     static
        edit.html
        ayout.html
                                        db.init_app(app)
        new.html
                                        with app.app_context():
      🛵 __init__.py
      🚜 app.py
                                            app.register_blueprint(routes.main_bp)
      გ forms.py
                                            app.register_blueprint(auth.auth_bp)
      🚜 models.py
      requirements.txt
      🛵 routes.py
                                            # Create Database models
      🛵 wsgi.py
                                            db.create_all()
   db
    adocker-compose.yml
  Scratches and Consoles
```

Step10. Handle User Accounts & Authentication in Flask with Flask-Login

Config screenshot

Auth.py for login confirmation

```
🔳 Project ▼ 🚱 🗿 🛧 🖈 —
                                               👸 models.py 🗡
                                                              🐉 forms.py 🗵
                                                                           尤 signup.jinja2 × 尤 login.jinja2 × 💏 auth.py × 🐉 app.py ×
✓ IS601Project4 C:\Users\dejin\Py
      statio
    templates
         edit.html
                                               return redirect(url_for('main_bp.dashboard'))
         login.jinja2
         aview.html
       🚜 app.py
       🛵 auth.py
       forms.py
      models.py
       🏞 routes.py
       🚜 wsgi.py
                                                'login.jinja2',
form=form,
    db
    🚜 .gitignore
```

Step11. Managing Session Data with Flask-Session & Redis

In this step, session was added into application, screenshot shows session in routes.py