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Group Name: PATQ

Capstone

# User's Manual for VARK Learning

## Setup and Running the Program

1. Download and unzip the submission from eLearning on a Mac OS platform (This application was developed on a Mac platform, so the instructions are specific to that. Can also use Linux, but might need some minor adjustments)
2. This submission includes:
    a. README.md
    b. Project1
        i. Templates – HTML files for all the front end
        ii. Tests – unit and functional tests for the application
        iii. Application.py – Python file that has all the logical functionality for the application to work
        iv. Create.py – creates tables from models.py
        v. Create.sql – SQL file created by create.py that has the creation for student table
        vi. Models.py – python classes for each table using SQLAlchemy
        vii. Requirements.txt – list of required modules

3. Environment: This project has been tested in the Command Line for Mac OS
4. **Running the program**:
    a. Make sure you have Python3.7, Pip3 and FLASK installed on your computer
        i. Installation sites:
            1. Python3.7: https://www.python.org/downloads/
            2. Pip3: https://pip.pypa.io/en/stable/installation/
            3. FLASK: https://pypi.org/project/Flask/
    b. In the command line, go into the project directory and into project1 folder
    c. Install the modules listed in the requirements.txt file by doing "pip3 install <module name>"

d. Create virtual environment by this command: “virtualenv -p python3.7 venv” (do this once, don’t have to do this every time you run)
e. Activate virtual environment: “source venv/bin/activate”
f. Now the Flask commands: “export FLASK_APP=application.py”
g. Run: “python -m flask run”
h. If missing module errors come up do: “pip3 install <module name>”
    i. Examples: “pip3 install flask”, “pip3 install requests”, “pip3 install flask_sqlalchemy”, “pip install psycopg2”
    ii. After modules are installed, run with this again: “python -m flask run”
i. Copy the url “http://127.0.0.1:5000/” given on the command line into your browser to see the application

Sample run:

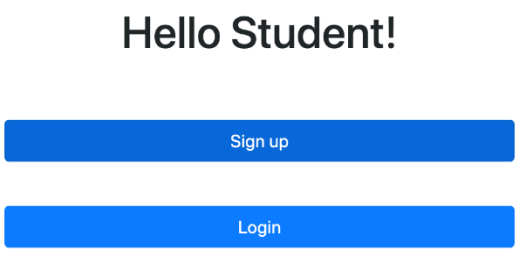
```
SATISHs-Air-2:~ priyapilla$ cd VARK-Learning
SATISHs-Air-2:VARK-Learning priyapilla$ ls
README.md       project1
SATISHs-Air-2:VARK-Learning priyapilla$ cd project1
SATISHs-Air-2:project1 priyapilla$ source venv/bin/activate
(venv) SATISHs-Air-2:project1 priyapilla$ export FLASK_APP=application.py
(venv) SATISHs-Air-2:project1 priyapilla$ python -m flask run
 * Serving Flask app 'application.py' (lazy loading)
 * Environment: production
   WARNING: This is a development server. Do not use it in a production deployment.
   Use a production WSGI server instead.
 * Debug mode: off
 * Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```

No command line arguments are required or checked.

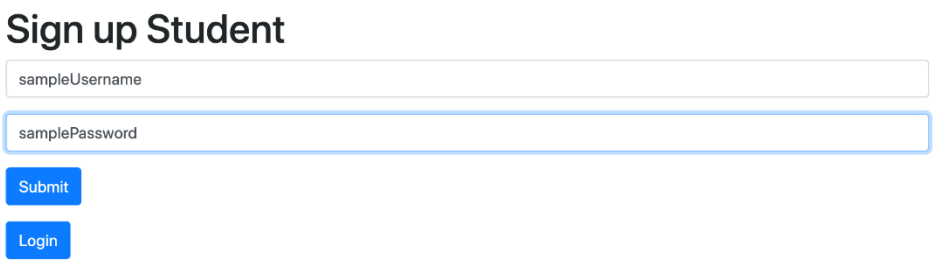
**User Input**: User inputs maybe clicking on buttons, entering username, password, text entry for notes, and interaction with radial buttons in learning styles quiz.

Example user inputs:

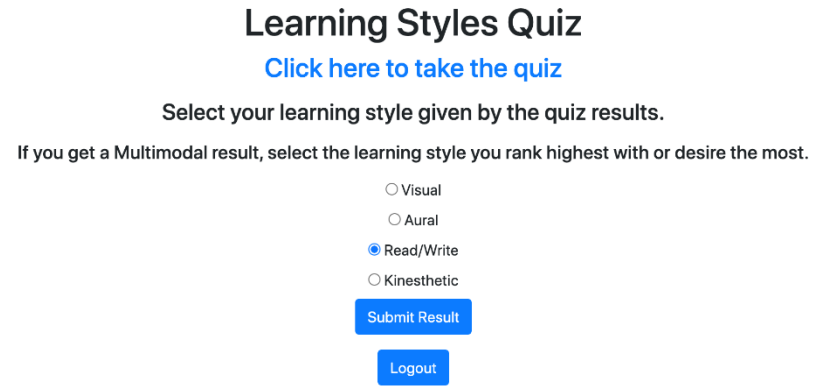
Buttons:



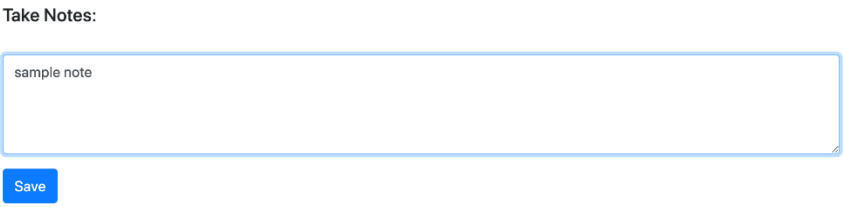
Username and Password:




Radial options:



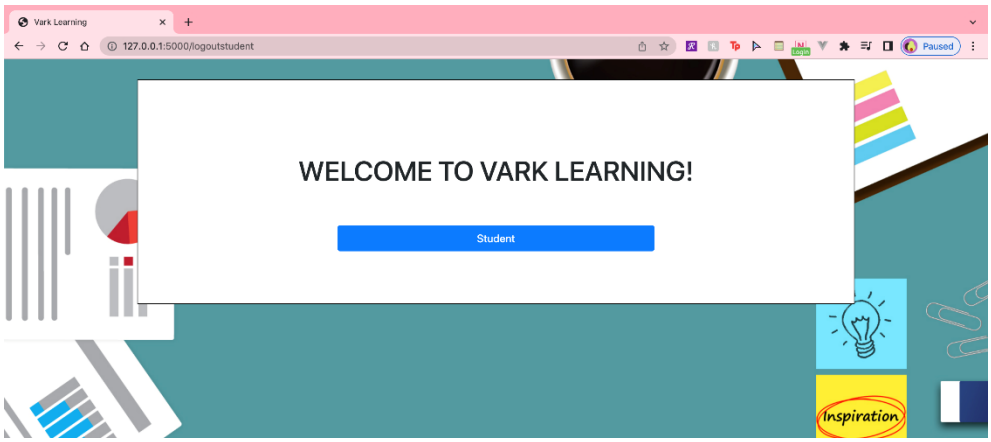

Text Entry:

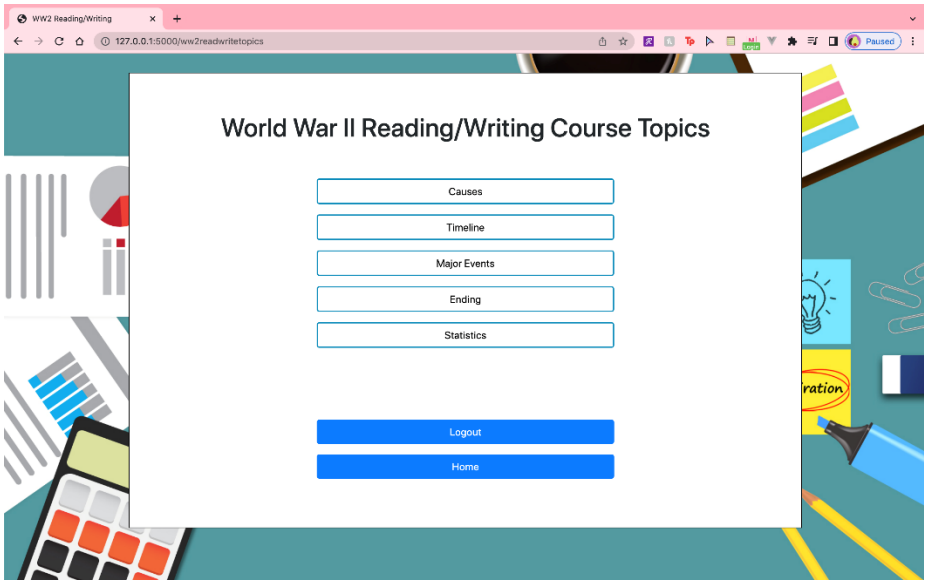


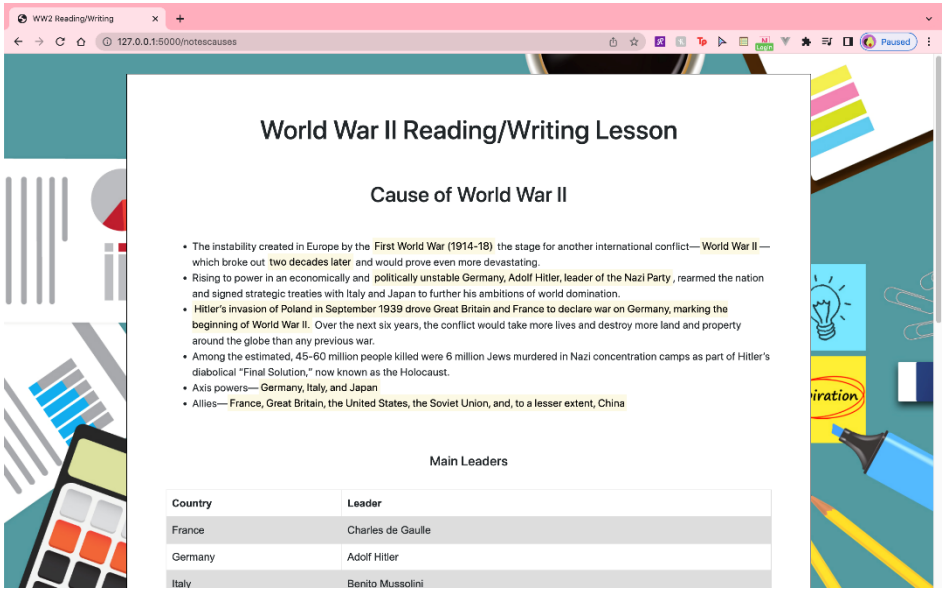

**Output**: Output on the console is GET and POST requests

```
127.0.0.1 - - [24/Apr/2022 16:00:30] "POST /student HTTP/1.1" 200 -
127.0.0.1 - - [24/Apr/2022 16:00:54] "POST /registerstudent HTTP/1.1" 200 -
127.0.0.1 - - [24/Apr/2022 16:01:21] "POST /registrationcompletestudent HTTP/1.1" 200 -
127.0.0.1 - - [24/Apr/2022 16:01:22] "POST /loginstudent HTTP/1.1" 200 -
127.0.0.1 - - [24/Apr/2022 16:01:28] "POST /quiz HTTP/1.1" 200 -
127.0.0.1 - - [24/Apr/2022 16:01:43] "POST /quizresults HTTP/1.1" 200 -
127.0.0.1 - - [24/Apr/2022 16:01:49] "POST /ww2readwritetopics HTTP/1.1" 200 -
127.0.0.1 - - [24/Apr/2022 16:01:54] "POST /ww2readwritecauses HTTP/1.1" 200 -
127.0.0.1 - - [24/Apr/2022 16:02:22] "POST /notescauses HTTP/1.1" 200 -
```

Other output is the web application GUI that has several pages. Here are some:




WW2 Reading/Writing
127.0.0.1:5000/ww2readwritetopics
Paused
World War II Reading/Writing Course Topics
Causes
Timeline
Major Events
Ending
Statistics
Logout
Home


WW2 Reading/Writing
127.0.0.1:5000/notescauses
Paused
World War II Reading/Writing Lesson
Cause of World War II
The instability created in Europe by the First World War (1914-18) the stage for another international conflict— World War II — which broke out two decades later and would prove even more devastating.
Rising to power in an economically and politically unstable Germany, Adolf Hitler, leader of the Nazi Party , rearmed the nation and signed strategic treaties with Italy and Japan to further his ambitions of world domination.
Hitler's invasion of Poland in September 1939 drove Great Britain and France to declare war on Germany, marking the beginning of World War II. Over the next six years, the conflict would take more lives and destroy more land and property around the globe than any previous war.
Among the estimated, 45-60 million people killed were 6 million Jews murdered in Nazi concentration camps as part of Hitler's diabolical "Final Solution," now known as the Holocaust.
Axis powers— Germany, Italy, and Japan
Allies— France, Great Britain, the United States, the Soviet Union, and, to a lesser extent, China
Main Leaders
Country
Leader
France
Charles de Gaulle
Germany
Adolf Hitler
Italy
Benito Mussolini