**INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, KOTA**

**Database Management System Lab**

**CSP-201**

**Project**

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**Umhera – A Blogging Paradise**

**Introduction:**

This is a project made for DBMS-Lab (CSP-201), It’s a blogging site with multiple futures and also demonstrates implementation of Relational Database Management System in real works, application.

**Features:**

1. User friendly blogging platform.

2. Complete user privacy and account security.

3. User friendly Graphical User Interface(GUI).

4. Private chat with attractive interface.

5. Optionality to follow other users to stay up to date with ideas of people you admire.

6. Complete user profile management.

7. Notification system to keep you up to date with things you like.(If time permits)

8. Secure to common cyber attacks.

**Technology Used:**

1. Python 3.7

Used for interfacing and server management.

2. Flask 1.x and its extensions.

A python framework which works as primary for the project, server and back-end management.

Some extensions:

* + Flask-Moment
  + Flask-SQLAlchemy
  + Flask-Migrate
  + Flask-Bootstrap
  + Flask-Login
  + Etc.

3. HTML5 and CSS

For front-end

4. SqLite

For database management.

5. JavaScript

For client side processing.

**System Requirement- Client Side:**

1. A recent version of any popular web browser(Google Chrome, Mozilla Firefox).

2. Decent internet connection.

**System Requirement- Development(or explore code side)**

1. Python 3.5 or above.

2. Decent Internet Connection.

3. A recent version of any popular web browser(Google Chrome, Mozilla Firefox).

**Database Schema:**

User: (

Id INT, Primary Key

Username VARCHAR(64)

email VARCHAR(120)

password\_hash CHAR(128)

about\_me VARCHAR(256)

last\_seen DATE

)

Follow\_Tab: (

follower\_id INT, Foreign Key(User.id)

followed\_id INT, Foreign Key(User.id)

)

Post: (

Id INT, Primary Key

body VARCHAR(256)

timestamp DATE

user\_id INT, Foreign Key(User.id)

)

Message: (

Id INT, Primary Key

body VARCHAR(256)

timestamp DATE

Is\_read BOOLEAN

sender\_id INT, Foreign Key(User.id)

recipient\_id INT, Foreign Key(User.id)

)

**Setting Up Project:**

**For first time:**

Run following commands in Windows Terminal:

mkdir Umhera

cd Umhera

git clone <https://github.com/Kartikei-12/python-flask-blog.git>

Set-ExecutionPolicy -ExecutionPolicy RemoteSigned

python -m venv venv

venv/Scripts/activate

pip install -r requirements.txt

python project.py setup

python project.py run

Then go to web browser and type localhost:5000

**After first time:**

venv/Scripts/activate

python project.py run

**Project GitHub Link:**

<https://github.com/Kartikei-12/python-flask-blog.git>