**Flask Blog Project**

**Introduction**

This Flask code is a simple blogging platform that allows users to register, login, and create, edit, and delete their own articles. The code consists of some dynamic webpages that take variables from the methods in app.py, The project uses a DatabaseManager module to connect to a MySQL database and perform various database operations (CRUD).

**Overview of the Application**

1. **Register/Login** : user write his name and password, the code checks if the provided username and password matches the database

Graphical user interface, application

Description automatically generated

1. **My Articles:** a Web page that Selects all articles from the database using logged in user\_id by executing the SQL **SELECT \* FROM Article WHERE user\_id = loggedin\_user\_id**, Articles is then shown on a grid view. Each article the two options one to edit by using Update Query, the other is to delete by using DELETE Query.

Graphical user interface, text, application, email

Description automatically generated   
  
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**Database Explaining**

**ERD:**

Diagram

Description automatically generated

**Tables:**

User Table:

|  |  |  |  |
| --- | --- | --- | --- |
| **id** | username | password | email |

Article Table:

|  |  |  |  |
| --- | --- | --- | --- |
| **Article\_id** | user\_id | title | description |

**SQL:**

User Table:

CREATE TABLE `user` (

  `id` int(11) NOT NULL,

  `username` varchar(100) NOT NULL,

  `password` varchar(100) NOT NULL,

  `email` varchar(100) NOT NULL,

RIMARY KEY (`id`),

  UNIQUE KEY `username` (`username`),

  UNIQUE KEY `email` (`email`);

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

Article Table:

CREATE TABLE `article` (

  `article\_id` int(11) NOT NULL,

  `user\_id` int(11) NOT NULL,

  `title` text NOT NULL,

  `description` text NOT NULL

PRIMARY KEY (`article\_id`),

FOREIGN KEY (`user\_id`) REFERENCES `user` (`id`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;