**Blog Creation Website**

1. **Problem Statement:** Build a simple blog creation website with user rating functionality.

Write Unit tests, have code coverage. Blog topic can be anything.

1. **Technology Stack:**

Any programming language/frameworks

1. **Features/Requirements:**

|  |  |  |
| --- | --- | --- |
| **Feature/requirement** | **Feature /Requirement Description with Business rules and design constraints** | **Expected Duration to complete** |
| Sign up to add users in user table | Populate some users with sign up and land on to create posts screen | ~ 15 mins |
| UI to Create Posts and show it on screen with rating options | Allowing a user to create Posts and show it on screen with rating options to enter. | ~ 45 mins |
| Implement Post Rating Functionality | Allowing all users to give a rating and calculate the average rating against a post | ~ 30 mins |
| Unit Test & Code Coverage |  | ~ 30 mins |

1. **Key Points to be followed:**

* Build an API to POST and GET the Post
* Build an API to POST and GET the Ratings
* Build UI screens to Get the content and title for the post.
* Save the collected posted details to the DB through API
* Build UI screen to allow multiple ratings the specific post
* Save the ratings in the DB though API
* Consolidate the ratings for the specific post and show the total ratings on the screen

1. **Table Structure:**

**Users Table**:

|  |  |
| --- | --- |
| **Columns** | **Purpose** |
| id | Primary key, unique identifier |
| username | Name of the user |
| email\_id | Email id of the user |
| mobile\_no | Mobile number of the user |

**Posts Table**:

|  |  |
| --- | --- |
| **Columns** | **Purpose** |
| id | Primary key, unique identifier for each post. |
| user\_id | Foreign key, references the id in the Users table. Indicates the author of the post. |
| title | The title of the post |
| Content - clob | The content of the post |
| created\_at | The date and time when the post was created |
| updated\_at | The date and time when the post was updated |

**Ratings Table**:

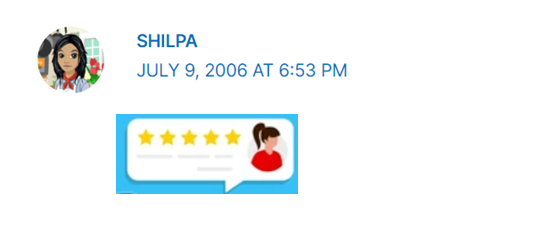
|  |  |
| --- | --- |
| **Columns** | **Purpose** |
| id | Primary key, unique identifier for each rating |
| user\_id | Foreign key, references the id in the Users table. Indicates the user who gave the rating. |
| post\_id | Foreign key, references the id in the Posts table. Indicates the post that was rated |
| rating | The rating given by the user. This could be a numerical value, like 1-5 |
| created\_at | The date and time when the rating was created |
| updated\_at | The date and time when the rating was updated |

1. **Output to be generated using GitHub Copilot:**
2. Copilot commands used in a text file.
3. History of Copilot command and code generated in a Dev tool.
4. Database scripts – Scripts to create tables
5. Working code.
6. Demo
7. Unit test case
8. Prompts used
9. Code Documentation
10. Screen shot of the UI screen showing the final output.
11. **UI Details with sample snapshots (just samples only)**

Sample Post : [This is sample Only]



Rating Screen: [This is sample Only]



Overall Rating Screen: [This is sample Only]

