Tech Forum Challenge

1.Introduction :

* This Website is useful for any technical person who stuck in any project after using all the possible solutions but he didn’t get their answer.
* So that person can put their problem as challenge and experts and knowledgeable persons can give answers.
* If that person is satisfied with the solution then he can upvote/downvote challenges as well as solutions.
* This Website is created using react & NodeJs for database MySQL and automated by Selenium Testing tool.

2.Users :

* This website involves Moderator and User Roles.

3.Roles Of Moderator :

* Moderator can login and able to see the profile and can change their password.
* Moderator can create/edit/delete and view the challenges.
* Moderator can create challenge as text format with images, code, logs, and tags/categories.
* Moderator can validate and approve challenges as well as solutions from users.
  + Based on the difficulty level of challenge moderator will assign reward points (3, 5, 7 & 10) to each challenge while approving the challenge in the tech forum.

4.Roles Of User :

* User can register himself and can login and can change his password and profile.
* User can create /edit/ delete/ view the challenges.
* User can create challenge as text fortmat with images, code, logs and tags/categories.
* User and other system users can comment on the challenge/solutions for more information.
* User can see earned reward points.
* User can upvote/Downvote challenges as well as solutions.

5. panels :

* There are two panels in the website.

1. Moderator Panel: Moderator handle the challenges, review the challenges and send feedback to the user about Challenges. And send rewards to the user.
2. User Panel: User Can put Challenges, update challenges, delete Challenges and view challenges and vote the other user’s solution.

6.Data Dictionary :

1. User

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column\_id | Column\_name | datatype | Size | Constraints | Description |
| 1. | UserId | int | - | Primary\_key | Auto increament |
| 2. | UserEmail | varchar | 200 | Unique | Unique email id |
| 3. | UserPassword | Varchar | 200 | NotNull | Password must required |
| 4. | UserFirstName | Varchar | 200 | NotNull | Firstname must required |
| 5. | UserLastName | Varchar | 200 | NotNull | Last name must required |
| 6. | RoleId | int | - | Foreign\_key | Fetch data from UserRoles |
| 7. | RewardPoints | int | - | - | For reward |
| 8. | CreatedBy | Varchar | 50 | NotNull | Name of creator of id |
| 9. | CreatedDate | Date | 10 | NotNull | Creation date |
| 10. | UpdatedBy | Varchar | 50 | - | If update detail then name who update information |
| 11. | UpdatedDate | date, | 10 | - | Date of updation |

2. UserRoles

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column\_id | Column\_name | datatype | Size | Constraints | Description |
| 1. | RoleId | int | - | Primary\_key | Auto increament |
| 2. | RoleName | varchar | 100 | Not null | Role name must required |
| 3. | CreatedDate | date | 10 | - | Auto-generated |
| 4. | UpdatedDate | Date | 10 | - | Auto-generated |

3. Challenges

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column\_id | Column\_name | datatype | Size | Constraints | Description |
| 1. | ChallengeId | int | - | Primary\_key | Auto increament |
| 2. | ChallengeTitle | varchar | 200 | NotNull | Title of the Challenges |
| 3. | ChallengeContent | Varchar | 200 | NotNull | Content of the Challenges |
| 4. | CreatedBy | Varchar | 200 | NotNull | Name who create challenge |
| 5. | CreatedDate | Varchar | 200 | NotNull | Creation date |
| 6. | UpdatedBy | int | - | - | Name who update challenge |
| 7. | UpdatedDate | Int | - | - | Date of updation |
| 8. | UserId | int | - | Foreign\_key | Fetch data from User table |
| 9. | UpVote | Int | - | - | Upvote |
| 10. | Downvote | int | - | - | Downvote |
| 11. | RewardPoints | int | - | - | Reward points |
| 12. | Comment | varchar | 300 | - | Comments in challenges |
| 13. | UserName | varchar | 200 | - | Username who put Challenges |

4. Solutions

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column\_id | Column\_name | datatype | Size | Constraints | Description |
| 1. | SolutionId | int | - | Primary\_key | Auto increament |
| 2. | SolutionContent | varchar | 200 | NotNull | Contents of the Solutions |
| 3. | CreatedBy | Varchar | 200 | NotNull | Content of the Challenges |
| 4. | CreatedDate | Varchar | 200 | NotNull | Creation date |
| 5. | UpdatedBy | int | - | - | Name who update challenge |
| 6. | UpdatedDate | Int | - | - | Date of updation |
| 7. | UserId | int | - | Foreign\_key | Fetch data from User table |
| 8. | UpVote | Int | - | - | Upvote |
| 9. | Downvote | int | - | - | Downvote |
| 10. | RewardPoints | int | - | - | Reward points |
| 11. | Comment | varchar | 300 | - | Comments in challenges |
| 12. | UserName | varchar | 200 | - | Username who put Challenges |

5. ChallengesSolutions

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column\_id | Column\_name | datatype | Size | Constraints | Description |
| 1. | Id | int | - | Primary\_key | Auto increament |
| 2. | ChallengeId | varchar | 200 | Foreign\_key | Fetch data from Challenges table |
| 3. | SolutionId | Varchar | 200 | Foreign\_key | Fetch data from Solutions table |
| 4. | CreatedBy | Varchar | 200 | NotNull | Name who create solution |
| 5. | CreatedDate | Date | - | NotNull | Creation time |
| 6. | UpdatedBy | varchar | - | - | Name who update solution |
| 7. | UpdatedDate | date | - | - | Updation date |

6. Tags

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column\_id | Column\_name | datatype | Size | Constraints | Description |
| 1. | TagId | int | - | Primary\_key | Auto increament |
| 2. | TagName | varchar | 200 | - | Enter tag name |
| 3. | TagColor | Varchar | 200 | - | Enter color name |
| 4. | CreatedBy | Varchar | 200 | NotNull | Name who create tags |
| 5. | CreatedDate | Date | - | NotNull | Creation time of tag |
| 6. | UpdatedBy | varchar | - | - | Name who update tags |
| 7. | UpdatedDate | Date | - | - | Updation date |

7. ChallengeTags

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column\_id | Column\_name | datatype | Size | Constraints | Description |
| 1. | Id |  |  | Primary\_key | Auto increment |
| 2. | TagId | int | - | foreign\_key | Fetch data from Tags table |
| 3. | ChallengeId | varchar | 200 | Foreign\_key | Fetch data from Challenges table |
| 4. | CreatedBy | Varchar | 200 | NotNull | Name who create tags |
| 5. | CreatedDate | Date | - | NotNull | Creation time of tag |
| 6. | UpdatedBy | varchar | - | - | Name who update tags |
| 7. | UpdatedDate | Date | - | - | Updation date |