

Project Report: MAD-II

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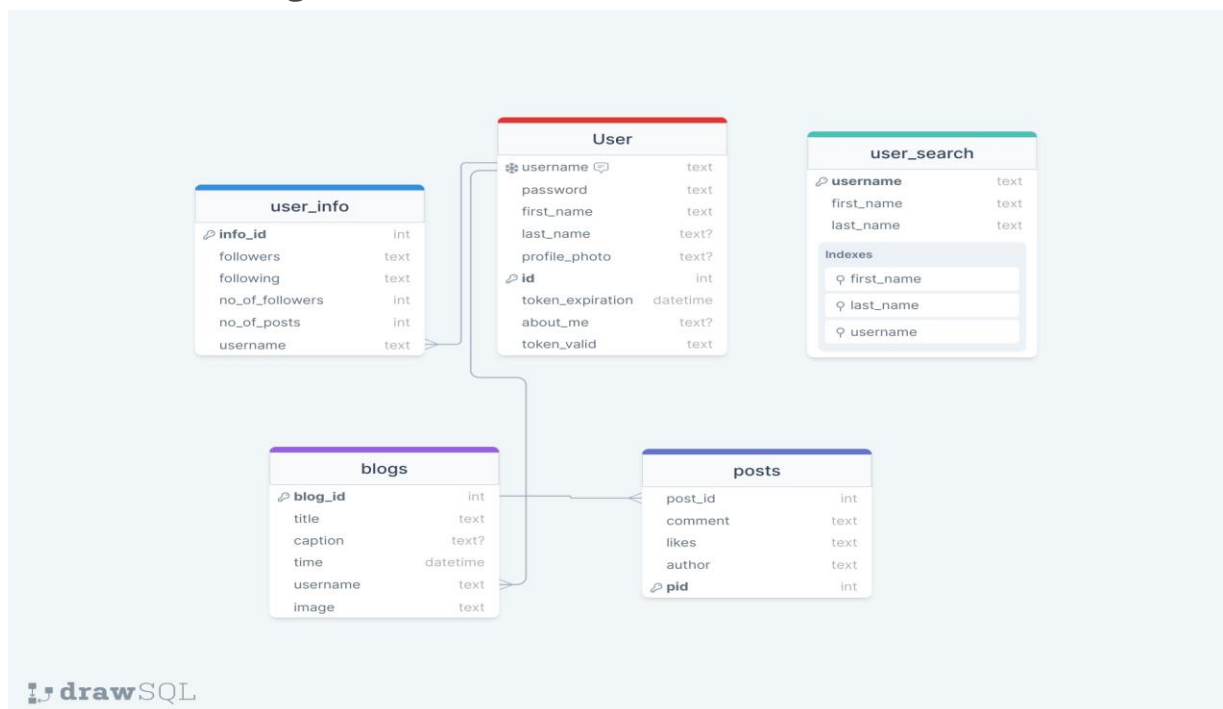
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Description

A blogging website where we can follow people to see their posts. We can see, create, and modify posts, we may comment, like on other people's posts. Visit others' profile pages. API created performs the CRUD operations on the database.

DB Schema Design



Created one main "User" table to store the basic information, another table "User_info" to store some extra data about individual users. Created one "Blog" table to store the content of the blogs, another table "Posts" to store more information about each blog. Decided to divide the tables to reduce the redundancy as well as save on computation time, thus preventing unnecessary looping through the data. More information is in the above picture.

Features:

- Easy intuitive signing up process.
- Two main pages- 'self_profile' and 'feed_pages' are properly secured. Cannot be opened by someone who does not login properly.
- Uploaded pictures are displayed with their respective title and caption. The user can click on the image to view the original image.
- Edit options with every image, where the user can change the details. The form also displays the current information about the image. One click changes.
- Followers/Following pages have an option to Follow/Unfollow.
- Search method uses first name, last name for search.
- Small drop-down menu (only in self- profile page) to change user information, password, or to delete account (with a confirmation from the user).
- Feeds are sorted by upload datetime.
- In the feeds page, I have included some dummy features such as- Groups, Latest Activities, for some later version updates.
- With a simple click on the photograph, one can see the full-size image (feed page).
- Blog owner photograph and name displayed, linked to his/her respective profile page.
- Like/Unlike button, flashes messages if already liked, or unliked (without a like).
- Edit/Delete comment option
- Shows the author of the comment
- Direct links to other profiles
- Other people's photographs are hidden until we follow.
- Other people's following/followers can also be seen.
- There is room for the 'about me' section on every profile.
- The navigation bar is fixed for all pages for easy navigation to other pages.
- Using Celery for daily reports, monthly reports.
- Import jobs-CSV file Format: title,caption,image,username(owner)
- Cached APIs
- Etc.

API:

> Users-

- GET(Username): Outputs information about a particular user, using username.
- POST(): Create a new user using: first_name, last_name, password, profile_photo, last_name.
- PUT(username): Edit information about a particular user using the username.

- DELETE(username): Delete a user

- Blogs-

- GET(): To fetch the blogid along with the username for further processes.(End point is changed '/api/blogs')

- GET(blogid): Displays the detail of a particular blog

- POST(): Creates a new blog by a given user.

- PUT(blogid): Basic changes- title, caption, image change.

- DELETE(blogid): Deletes the blog by blogid.

- User_info-

- GET(username): Displays the person whom this particular user is following or is being followed.

- POST(): Adds the user in the following list(Eg. User presses follow button)

- No PUT here, one cannot change followers/following. Either follow or no follow. So only POST and DELETE.

- DELETE(username1,username2): Here the User with username1 unfollows the User with username2.

- Posts-

- GET(): Fetches all the postids with their owner(username). ■ GET(id): Get the comments and liked_by and the owner of the post.

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- POST(id): Creates a new post(Comment or a like on an already existing blog) using the blogid passed as id.

- DELETE(id): Delete a particular post(comment or a like) of a particular post_id passed as id.

Video:

<https://www.youtube.com/watch?v=ueG619Rop8s>