

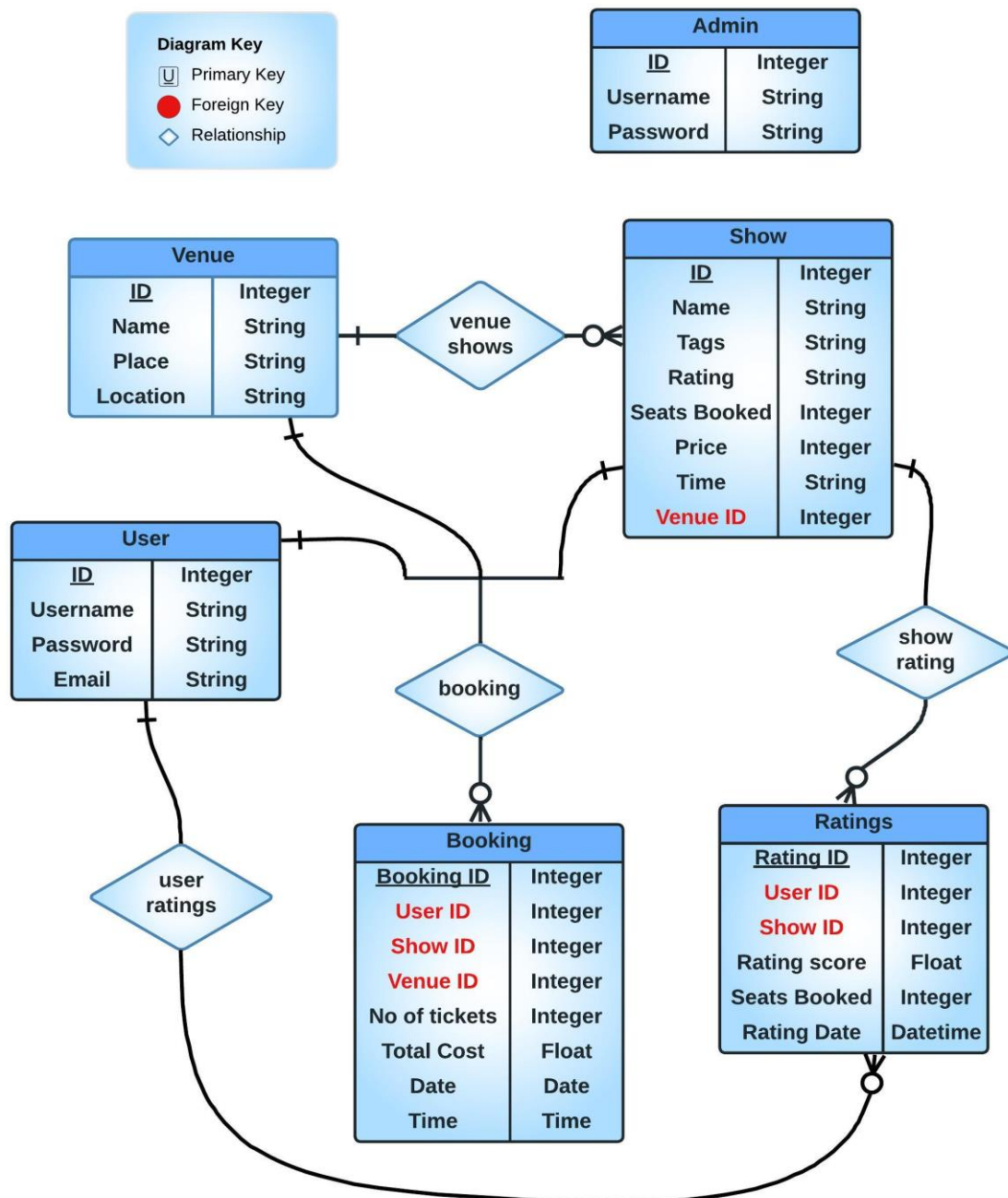
Mad 1 Project Report

Ticket Show Application

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- **ER Diagram** displaying the various models used in the app and the relationships between them:



▪ Basic System Design

- There is only a single admin, but there can be many users.
- A venue can 0 or many shows, but a show is associated with only one venue.
- Same show can be scheduled again in a venue at a different timing.
- A user can book more than 1 ticket for a show. He/she can rate also.
- The avg rating given to shows by various users is calculated and displayed on the show page.

▪ API endpoints

➤ Shows:

- CRUD Operations:
 - **GET:** `/api/show/{{ show_id }}` - Fetch details of a show.
 - **POST:** `/api/show` - Create a show.
 - **PUT:** `/api/show/{{ show_id }}` - Update details of a show.
 - **DELETE:** `/api/show/{{ show_id }}` - To delete a show.
- Show Details (HTML page):
 - **GET:** `/api/show/{{ show_id }}/display` - To display details of a show.

➤ Venues

- CRUD Operations:
 - **GET:** `/api/venue/{{ venue_id }}` - Fetch details of a venue.
 - **POST:** `/api/venue` - Create a venue.
 - **PUT:** `/api/venue/{{ venue_id }}` - Update details of a venue.
 - **DELETE:** `/api/venue/{{ venue_id }}` - To delete a venue.
- Venue Details (HTML page):
 - **GET:** `/api/venue/{{ venue_id }}/display` - To display details of a venue.

▪ Extra Features

➤ Admin

- 'Edit', 'delete' and 'add a show' options added for venues even on the page showing the search results.
- 'Edit' and 'delete' options added for shows even on the page showing the search results.

➤ User

- 'Book show tickets' option added for shows even on the page showing the search results.

➤ Tried to do some **styling** and better the **aesthetics**.

- APIs also created for displaying show and venue details in rendered HTML format on the browser.

- Link to the demonstration video - [Demonstration Video](#)

- Project File Structure

```
|— application
    |— config.py
    |— controllers.py
    |— database.py
    |— models.py

|— db_directory
    |— proj.sqlite3

|— static
    |— images
    |— CSS

|— templates
    |— admin_login.html
    |— index.html
    |— etc.

|— docs
    |— report
    |— etc.

|— local_run.sh
|— local_setup.sh
|— main.py
|— readme.md
|— requirements.txt
```