



Core features

Fog

- Saving Progress
- Displaying fog (graphics stencil)
- Store fog explored

Profile Information(turned into statistics)

- Secure login/sign up
- Store progress information

- Receive progress information when logging in [FE]
- display different features to admins/wayfinders.
- Achievements
- Leaderboardplacement

- View global leaderboard

Create:

- Signup creates new user

Request:

- Requesting stats
- Display on user information page

Update

- Updating states / user type

Delete

- Admin could delete users

Pins

- Creating pins (verify user permissions)
- Discover Pins (send info to profile information, save it to progress)
- Pin information (name, place, description)
- Live update when a new pin is created

Friends System

- Relations
 - Connecting user and friends table through one to many
- Sharing progress
- adding/removing friends
- Notifications for request
 - Done view websockets
- Friends list

CRUD:

Create:

- Friend requests being sent to others creates friend object

Request:

- Request list of friends to display
- Request frind info

Update:

- Update friend information if still friends
- Or if they accept or dont accept request

Delete:

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- The ER diagram illustrates the following tables and their attributes:
- comment**: id INT(11), text VARCHAR(255), time BIGINT(20), pin INT(11). Indexes.
 - pin**: id INT(11), name VARCHAR(255), x DOUBLE, y DOUBLE. Indexes.
 - progress**: id INT(11), discovered BIT(1), pin_id INT(11), user_id INT(11). Indexes.
 - statistics**: id INT(11), discovered BIT(1), pin_id INT(11), u_id INT(11), num_discovered_pins INT(11), user_id INT(11). Indexes.
 - statistics_pins**: statistics_id INT(11), pins_id INT(11). Indexes.
 - pin_statistics**: pin_id INT(11), statistics_id INT(11). Indexes.
 - user**: u_id INT(11), password VARCHAR(255), username VARCHAR(255), stats_id INT(11), score INT(11). Indexes.
 - user_friends**: user_u_id INT(11), friends_entry INT(11). Indexes.
 - friend_obj**: entry INT(11), cur_username VARCHAR(255), friend_username VARCHAR(255), friend_status BIT(1), user_u_id INT(11). Indexes.
 - pin_users**: pin_id INT(11), users_u_id INT(11). Indexes.
 - user_pins**: user_u_id INT(11), pins_id INT(11). Indexes.
 - pin_pair**: id INT(11), is_discovered BIT(1). Indexes.
- Relationships are indicated by dashed lines with crow's foot notation:
- comment** to **pin**: One-to-many relationship.
 - comment** to **pin_pair**: One-to-many relationship.
 - pin** to **progress**: One-to-many relationship.
 - pin** to **statistics**: One-to-many relationship.
 - pin** to **pin_statistics**: One-to-many relationship.
 - progress** to **user_pins**: One-to-many relationship.
 - statistics** to **statistics_pins**: One-to-many relationship.
 - statistics** to **pin_comments**: One-to-many relationship.
 - statistics_pins** to **pin_comments**: One-to-many relationship.
 - statistics_pins** to **friend_obj**: One-to-many relationship.
 - pin_statistics** to **friend_obj**: One-to-many relationship.
 - user** to **user_friends**: One-to-many relationship.
 - user** to **pin_users**: One-to-many relationship.
 - user** to **friend_obj**: One-to-many relationship.
 - pin_users** to **pin_comments**: One-to-many relationship.
 - pin_comments** to **pin_pair**: One-to-many relationship.

