

## **Web Programming Group Project - Group 29**

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### **'Likes' & Email Notification System**

**URL:** <https://webprogmatching.herokuapp.com/>

#### **Admin login details**

**Username:** admin

**Password:** Admin1234

The application is deployed on Heroku, using AWS RDS as a database. Additionally, MySQL was used, as opposed to SQLite3. Amazon S3 is used to store static files, such as profile images and scripts. Since a free Heroku account is being used, it may take a few minutes to initially load the website when it is being accessed for the first time in a few days.

As an additional feature, our application includes a 'likes'-based system, in which users can 'like' other users' profiles that are shown in their page once they are logged in to their account. When a user's profile has been liked, the user whose profile has been liked will receive a notification (via email) that another user has liked their profile.

This is implemented by having a separate model for Likes, which has two foreign keys – one referencing the user who is performing the Like action, and the other referencing the user whose profile is liked by the user performing the action. A different Like instance is created each time the user clicks on the Like button to like another user's profile. This is done by sending an AJAX request with the username of the user that is being liked. Users can like many profiles.

There is a Like button on each user's profile card when the page of users is displayed. When scrolling through the list of users (filtered or unfiltered), the user can click on the Like button on the respective users' profiles in order to Like those users' profiles. For example, if User A is logged in and wishes to like User B's profile, User A will be able to see a Like button on User B's profile card.

Upon clicking the button, User A will get an alert that the Like has been recorded (in which case the AJAX request is sent) – this will be reflected in the Like count on User B's profile card (in that it will be incremented by 1), showing the new number of Likes. This is also implemented so that User A can only Like User B's profile once – hence if this is attempted again, User A will get an alert that they have already liked User B's profile, and User B's Like count will remain unchanged.

The Like system also has an associated email notification system. This is done by using Django's built-in email support, with the statement: `from django.core.mail import send_mail`

The application is implemented so that when a user is registering an account, they can only do so with a unique email address – in that the same email cannot be used again for registration if it has previously been used before. This ensures that no more than one email is used per User account.

When a user likes another user's profile, an email notification is sent from the server to the user, specifying that their profile has been liked.

For example, when User A clicks on the Like button on User B's profile, a like is added to User B's Like count (given that User A has not previously liked User B's profile). Subsequently, an alert is given to User A, notifying that the Like has been successful. A notification is then sent from the server via email to User B, with a message indicating that their profile has been liked by User A.