

## **Major Processes**

### **Register**

- *HTML5* form provided for user to input their basic information (name, username, password, email, sex, credit card)
- Client-side dynamic validation with *JavaScript/HTML5* (valid email address, valid date of birth etc.)
- Server-side validation with *PHP* (with embedded *SQL* queries) communicating with the *MySQL* database (check for duplicate usernames, check if user is banned)
- If all fields are valid, user information is stored on the database (credit card details and password are encrypted) and user is directed to “User Profile” page.

### **Log In**

- *HTML5* form with username and password fields, tick box option to stay logged in for a month
- *PHP* and *SQL* queries used to verify username and password (encrypted) matches records on the *MySQL* database
- If log in successful, user is directed to “User Profile” page and if unsuccessful the “Log In” page is shown with an error.
- Administrators may log in from this page also – if admin permissions are given for the user in the database then they will be directed to the “Admin page” upon log in.

### **Persistent Log In and Log Out**

- User information such as username and password (encrypted) are stored in a session upon log in.
- If the user requests to be logged in longer than a session (upon closing of the browser) then a cookie will be stored on the user’s machine.
- Each webpage that requires to be logged in will verify that the user is logged in first by checking for session data.
- If there is no session data present, a check for cookie data will be made. If a cookie is present, then a session will be created with the information from the cookie.
- If the user chooses to log out of the website (link to log out provided in top right corner), the session will end and the cookie will be set to expire.
- *PHP* will be used to control sessions and create/expire cookies

### **User Profile**

- *CSS* will be utilised on this page to make it aesthetically pleasing as possible.
- This page shows the user’s information that is viewable to other users.
- A “Request” button on this page will allow users to request permission to communicate with that user.
- *PHP/SQL* will be used to retrieve the user’s information from the database and display it on the profile.

## **Major Processes**

### **Edit Profile**

- The “Edit Profile” page allows the user to edit the information that is viewable on their profile. It includes an *HTML5* form with fields for each piece of information (will include dropdown menus and other forms of input).
- JavaScript will verify user input and if the information is valid it will be stored on the *MySQL* database using *PHP/SQL*.
- The administrator also has access to this page for all users.

### **Matches and Requests**

- The “Matches” page shows the users one has matched with (when a communication request has been accepted).
- The “Requests” page shows the users one has sent requests to but have not been accepted yet.
- *PHP/SQL* will be used to access matches / requests from the “REQUESTS” *MySQL* table.

### **Search Users**

- A user may search for other users. One can search through all users or search by college, age and physical features such as height and hair type/colour.
- The administrator also has access to this page.
- *PHP* and *SQL* queries will request the relevant users from the *MySQL* database.

### **Ban and Unban Users**

- This page is accessible by the administrator only.
- The admin may ban a user temporarily or permanently for misuse of the website.
- Banned users are added to the “TEMPBAN” or “BANNED” tables in the *MySQL* database.
- If the admin wishes to unban a user then the user will be removed from the respective banned table in the database.

### **Recommended Users**

- A sidebar will be provided with recommended matches to the user.
- The recommendations will be based on matching users with users in the same location and with users with the same interests and desired traits.
- *PHP* and *SQL* queries will be used to compare the user with other users in the database and suggest a potential match.