Software Requirements Specification

for

The Dating App

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**Higher level requirement:**

**Functional requirements:**

The Dating app with obtain user information and manage it to create an algorithm to assist and match two similar users. The highest priority is going to be a proper algorithm that is very efficient.

• User registration: The app is able to register user based on the information provided by the user. Either by email address or by phone number.

• User login: The app stores all registered email/phone number and passwords which gives ability to a user to login into their account.

• Retrieve password: The app should have ability to let user retrieve their password if the user forgets it via email or a 4-digit code from phone number.

• Input user information: The user should be able to input their personal information. The subcategories are as follows:

• Preference (male/female)

• Age

• Race

• Hobbies

• Locality radius

• Bio

• Search nearby location (map view): The app should allow the user to see the match criteria on the map via map view.

• Match similar profiles: The app matchs users based on their preferences and show the list depending on the number of similarities.

• location tracking: This app updates each User’s real time location every minutes based on the GPS information/Ip address.

• Brower nearby user: User mush be able to find nearby users and view their profile based on the matching Preference and location.

• Chat thread: Once the users are matched the app should provide users to communicate with each other via a chat box. Additional features: gifs, emojis, attachments.

• Block reported users from the account that has reported it: The app should have the ability to block reported users based on the complaint type.

**Nonfunctional Requirements**

Safety features to keep user data secure. The data should be properly normalized to assure a proper and efficient algorithm to match users and allow them to filter according to their choice.

• Performance:

o Performance is based on the responsiveness of the app. The app should not take more than certain amount of time to load initial screen.

• Responsiveness:

o The app is able to save the state of last interruption and reload from that state itself.

E.g.: If the user gets interrupted by a call the app should be able to load from where the user left it.

• User friendly:

o User is able to maneuver through the app by themselves. The design should not be too complicated for the user to understand and work it through.

• Scalability:

o This app is able to adapt itself to increased number of functionality or increased volume of user at a time.

• Security:

o The app keep sall user data safe and secure. There should not be any issue or leak from outside environment or internal attack as well.

• Screen Adaption:

o The app is able to render its layout to different screen sizes. The font size and images should be scaled accordingly as well.

• Legal, copyrights and other notices:

o The app has all the disclaimers in the information section for the safety of the client.

**External Interface Requirements**

**User Interfaces**

* JavaScript, Vue, CSS

**Hardware Interfaces**

* Windows
* Android/IOS
* A smartphone that supports applications
* A browser that supports JavaScript

**Software Interfaces**

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| --- | --- |
| **Software Used** | **Description** |
| Operating System | We have chosen Windows and Android and IOS operating systems for its best support and user-friendliness |
| Database | To save user information |
| JavaScript  AWS | To implement the project and generate an algorithm the match users appropriately  We will use amazon web services to deploy the API and have a database |

**Communication Interfaces**

The project supports web browsers: Google Chrome, Microsoft Edge, Firefox, and Safari.

The project supports mobile OS: Android and IOS