



MATCHMAGNET

TEAM CONNECTORS

System Proposal

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Motivation

In the realm of social networking, conventional platforms often fall short in facilitating genuine connections based on shared interests, leading to a lack of meaningful interactions and friendships. Users frequently encounters:

- > **Superficial Connections:** Current platforms prioritize quantity over quality, resulting in superficial connections based on appearance or brief interactions.
- > **Limited Social Opportunities:** Users struggle to find opportunities to meet like-minded individuals offline, hindering the formation of lasting relationships.
- > **Imposed Community Guideline:** Users struggle to express their perspective on global issues.often a guideline is set by the developer company.

Features

Interest-Based Matching: Users are matched based on shared interests, allowing for more meaningful connections beyond surface-level interactions.

In-Person Meetups: MatchMagnet paves the way to meetups centered around common interests, providing users with opportunities to connect offline and build lasting relationships.

Flexible Interaction: People can express their view based on what they believe. In a way it gives users the opportunity to meet people of similar point of view and also it gives users the ability to control whom they interact with.

At the end , we can say that MatchMagnet tries to implement something which gives users independence and also a platform to feel who they are , what their points of view and what they believe. Existing applications sometimes fail to achieve that goal.

Background

OVERVIEW

Traditional social networking platforms such as Snapchat, Tinder, Bumble, and Facebook dominate the digital landscape. These platforms primarily focus on superficial interactions, where users often prioritize visual appeal and brief encounters. Communication is often hindered by language barriers, limiting the depth of connections formed. Moreover, the lack of emphasis on shared interests and hobbies leads to a dearth of meaningful connections and lasting friendships. Offline social opportunities are also limited, further hindering users from building genuine relationships.

CURRENT SYSTEM ISSUES

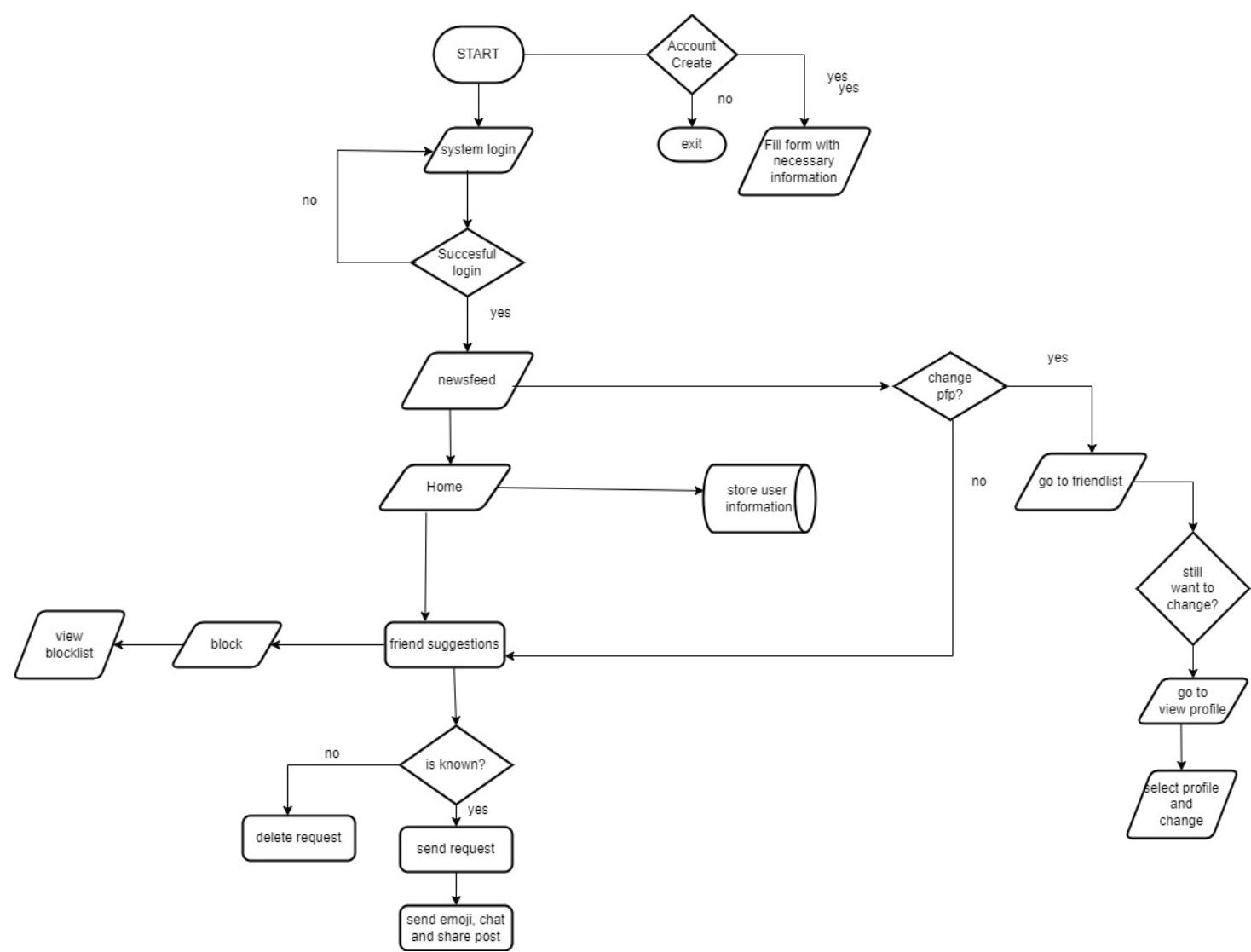
Superficial Interactions: Existing social networking platforms often place significant emphasis on superficial attributes such as physical appearance or brief bios. Users are frequently judged based on their profile pictures or limited bio information, leading to shallow connections that may lack depth and substance. Consequently, users may find it challenging to establish meaningful relationships beyond initial interactions, as the focus remains primarily on surface-level characteristics rather than shared values or interests.

Lack of Interest-Based Matching: Many existing social networking platforms lack robust mechanisms for interest-based matching, making it difficult for users to find individuals who share their passions and interests. Instead, users are often presented with potential matches based on superficial criteria such as location or mutual acquaintances, rather than compatibility in terms of shared hobbies, values, or lifestyle preferences. Consequently, users may struggle to form meaningful connections with others who truly understand and appreciate their interests, leading to a sense of disconnection and dissatisfaction with the platform's matchmaking capabilities.

Limited Offline Social Opportunities: While digital connections are valuable, there is a growing recognition of the importance of offline interactions in fostering genuine relationships and social connections. However, existing social networking platforms often provide limited opportunities for users to meet like-minded individuals in real life and engage in meaningful offline activities together. This lack of offline social opportunities can hinder the development of deeper connections and friendships, as users may feel confined to digital interactions and miss out on the enriching experiences that come from face-to-face communication and shared activities.

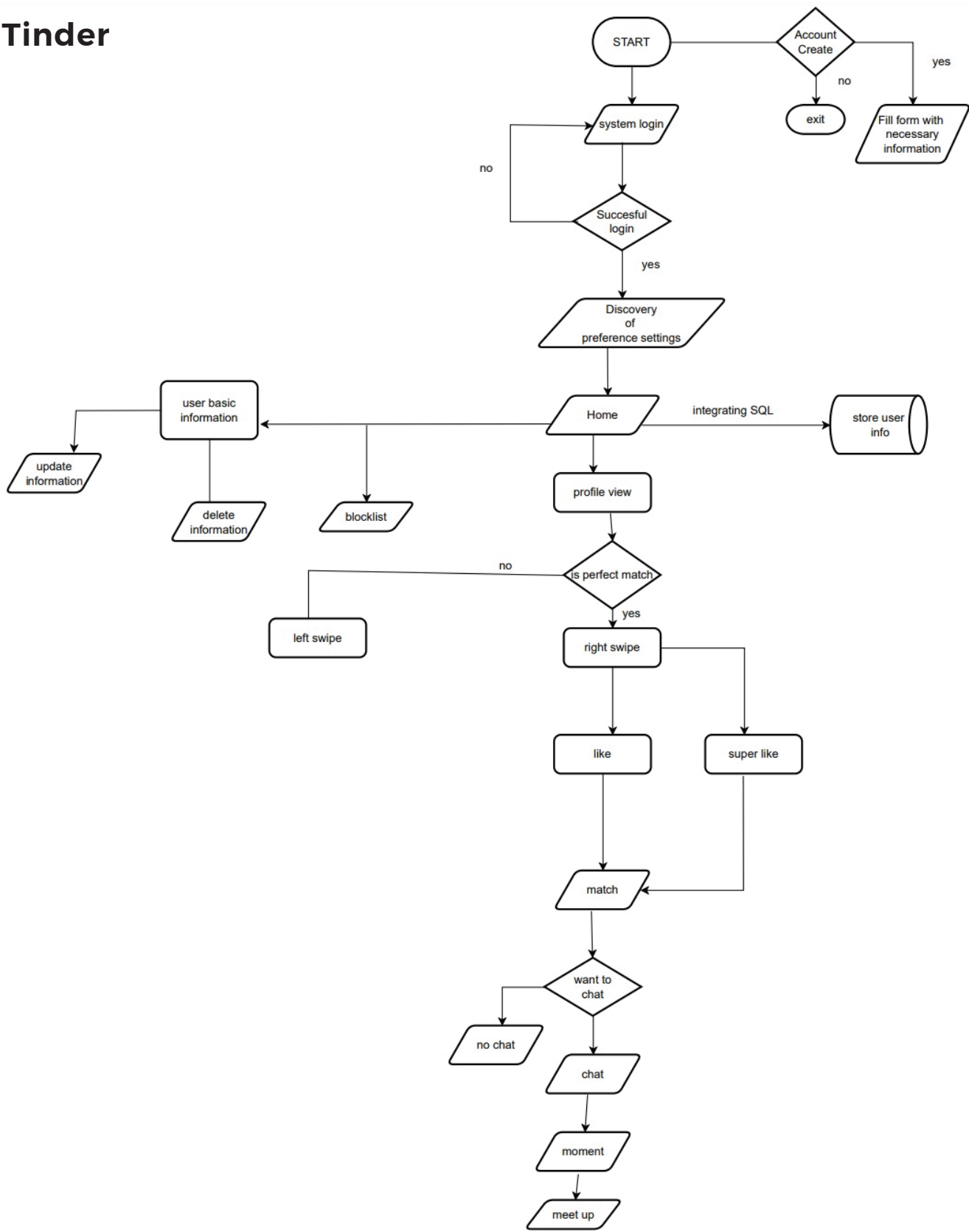
Flowchart of Current Systems

Facebook



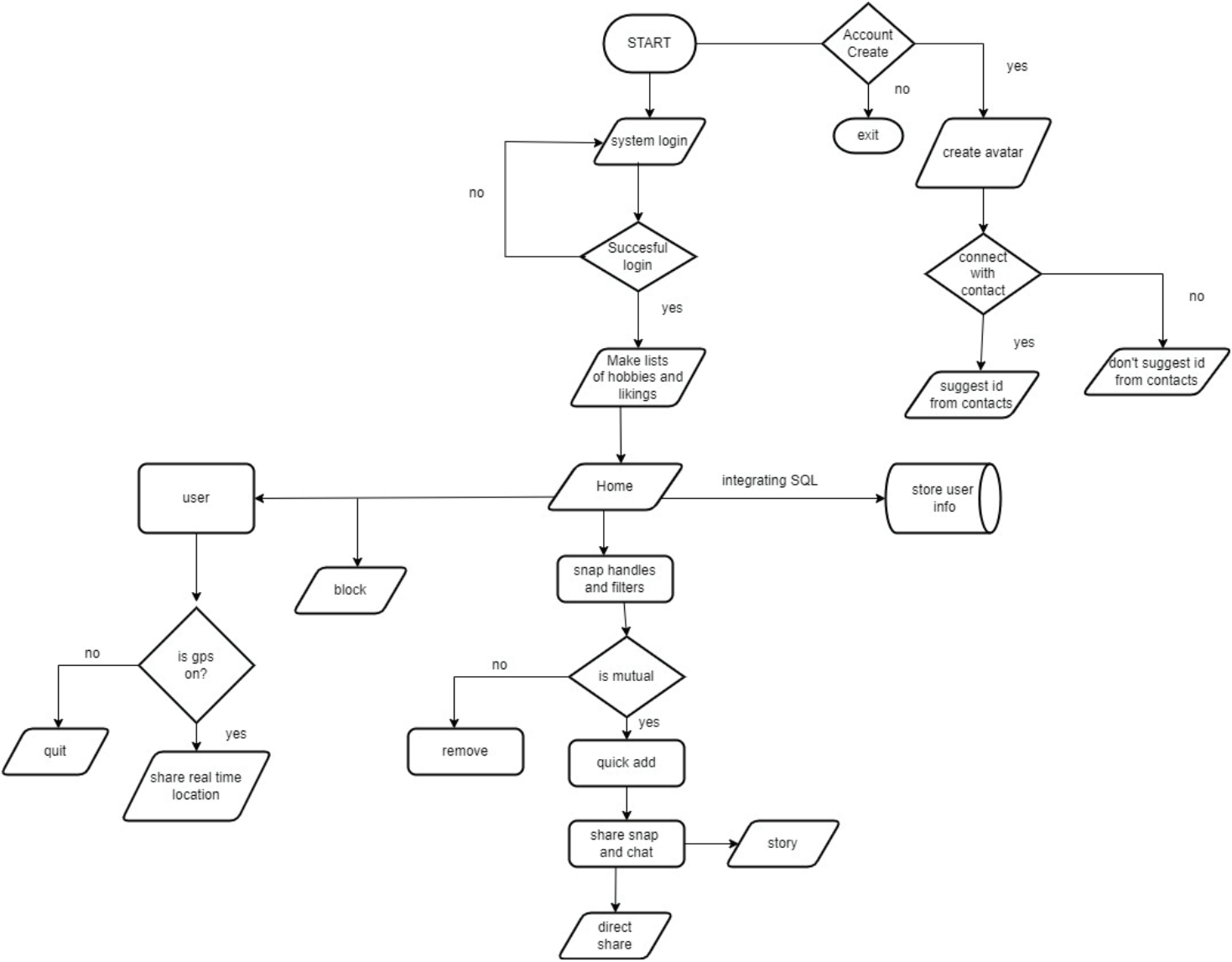
Flowchart of Current Systems

Tinder



Flowchart of Current Systems

Snapchat



Functionality

Creating Profile: Users can create personalized profiles by providing relevant information such as name, age, location, and a brief bio. They can also upload profile pictures to enhance their visibility on the platform.

Select Interests & Hobbies: Users have the option to select their interests and hobbies from a predefined list or manually input them. This information will be used to match users with others who share similar interests.

Match on Percentages: The system utilizes a matching algorithm to analyze users' profiles and interests, generating compatibility percentages for potential matches. Users are presented with matches based on the highest compatibility percentages, enhancing the likelihood of meaningful connections.

Chatbox: A chat feature allows users to communicate with their matches seamlessly. Users can exchange messages, share photos, and engage in conversations to get to know each other better.

Verifications & Security: The platform incorporates verification measures to enhance security and authenticity. Users may undergo verification processes such as email verification or facial recognition to ensure the validity of their profiles. Additionally, the platform employs security protocols to safeguard user data and prevent unauthorized access.

Users & Roles

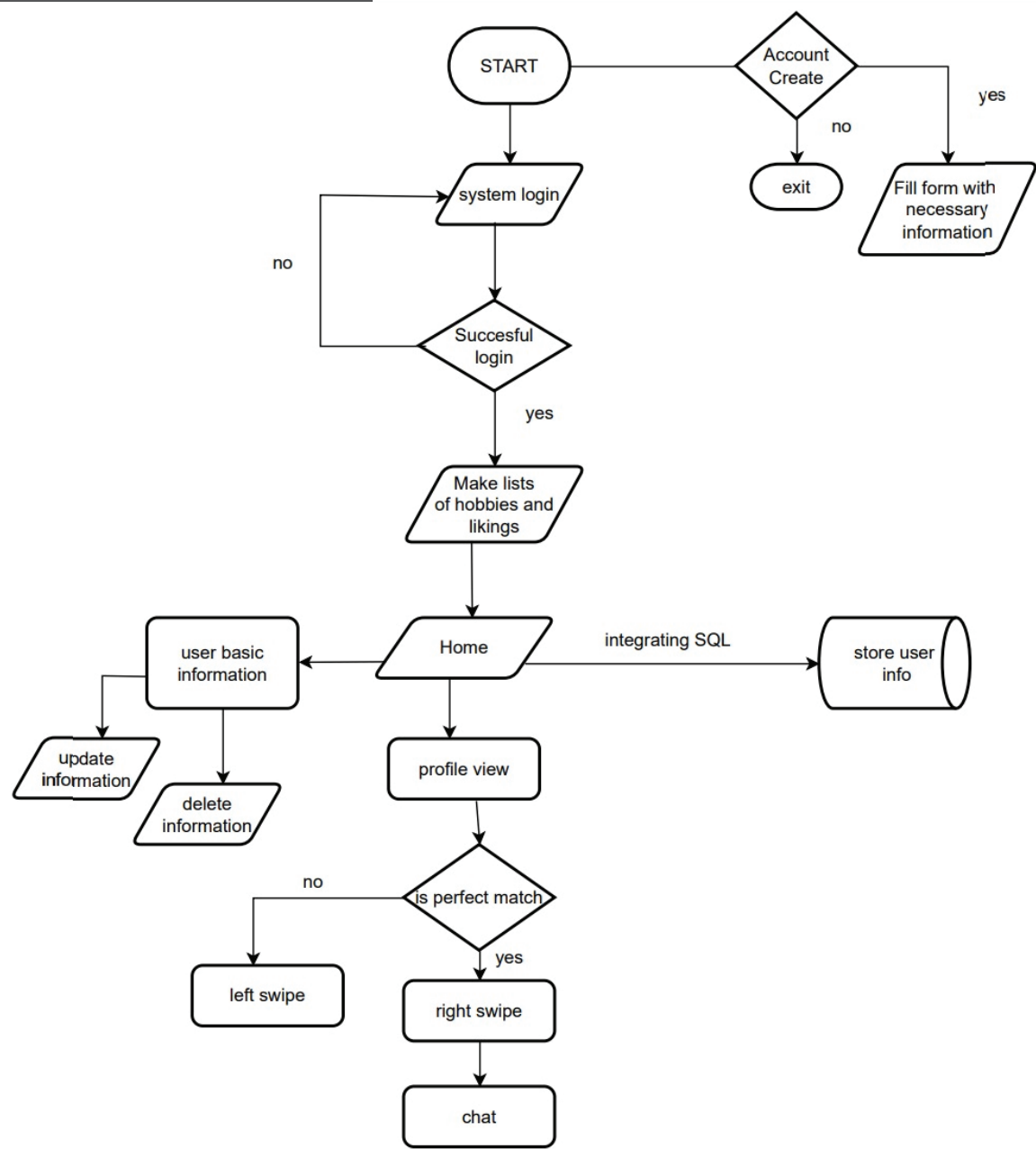
Active Users: These are individuals who regularly use the platform to connect with others who share their interests and hobbies. They are proactive in updating their profiles and engaging in conversations with their matches.

New Users: These are individuals who are new to the platform and are in the process of setting up their profiles and exploring potential matches. They may require guidance on how to navigate the platform and utilize its features effectively.

Matched Users: These are users who have been matched with others based on their compatibility percentages. They engage in conversations with their matches through the chat feature and may eventually transition to offline interactions, such as meetups or events.

Administrators: These are individuals responsible for managing the platform, overseeing user activity, and addressing any issues or concerns that may arise. They ensure the smooth operation of the system and enforce security measures to protect user privacy and safety.

Flowchart of Proposed System



TECHNICAL SPECIFICATIONS

Backend :

Java Framework:
WebSockets

Communication Protocol:

WebSocket

Security:

SSL/TLS

Version Control:

Git

Frontend (Client-Side):

HTML, CSS, JavaScript
Frontend Framework/Library: React.js,
WebSockets or AJAX

Database:

Database System: MongoDB.
Java Persistence API (JPA)

Deployment:

Cloud Services

Security & Permissions

Secure Communication: HTTPS protocol will be implemented to encrypt data transmission between the client and server, ensuring the security of user information.

Data Encryption: Sensitive data such as user credentials and personal information will be encrypted using industry-standard encryption algorithms to prevent unauthorized access.

Regular Security Audits: Periodic security audits and code reviews will be conducted to identify and address potential security vulnerabilities in the application.

System Alternatives

Facebook

Merits:

- Extensive User Base
- Multimedia Sharing
- Groups and Events

Demerits:

- Privacy Concerns
- Algorithmic Feed
- Distractions

Tinder

Merits:

- Geolocation
- Swipe Mechanism
- Diverse User Base

Demerits:

- Superficiality
- Safety Concerns
- Limited Interaction

Snapchat

Merits:

- Ephemeral Content
- Engaging Features
- Younger Audience

Demerits:

- Limited Content Visibility
- Privacy Concerns
- Learning Curve

Summary

Our proposed project, matchmagnet ensures meaningful connections based on common interests and likings. existing platforms like Snapchat, Tinder, and Facebook have their merits and demerits but may lack the depth of connections. Our project is designed to establish genuine connections by utilizing a matching algorithm, chat feature, and verification measures for security. Technical specifications include Java backend, React.js frontend, MongoDB database, and HTTPS protocol for secure communication. It stands out from any other platform by providing users with independence and a platform to express their perspectives.

