FindMyDoggo

1. FindMyDoggo is a dedicated application designed to assist you in the event your beloved dog goes missing. It not only empowers you to promptly report a lost dog but also facilitates seamless communication with fellow pet lovers who may have come across your furry friend. Additionally, the app offers a user-friendly platform for reporting any found dogs, promoting a sense of community and ensuring a quicker reunion with our four-legged friends."

2. The application target group is dog owners.

3. The application addresses the following requirements.

- Lost Dog Reporting: It addresses the need of users to report when their dog goes missing, providing a tool for them to quickly and effectively communicate this information.

- Communication with the Community: It fulfills the requirement for users to connect with other people who may have found their lost dog, enabling efficient and immediate communication to aid in the recovery process.

- Found Dog Reporting: It caters to users who have found a lost dog by offering a platform to report and contribute to the community's collective effort to reunite dogs with their owners.

4. Assumptions:

User Smartphone: The app assumes that users have smartphones with GPS capabilities and internet connectivity.

Internet Access: Users need a reliable internet connection to use the app for reporting lost and found dogs and for communicating with others.

Google Maps Availability: The app assumes access to Google Maps services for location mapping and navigation.

User Participation: The effectiveness of the app relies on user engagement and participation in reporting lost and found dogs and in assisting others in the community.

Dependencies:

Google Maps API: The app is dependent on Google Maps services for mapping and location-related functionalities.

Firebase Services: The app relies on Firebase for user authentication and potentially for data storage.

GPS Hardware: The app depends on the smartphone's GPS hardware to obtain precise location data.

Internet Services: Users must have access to the internet for real-time communication and data sharing.

User Data: The app relies on users to provide accurate information about lost and found dogs, so the quality and completeness of the data depend on user contributions.

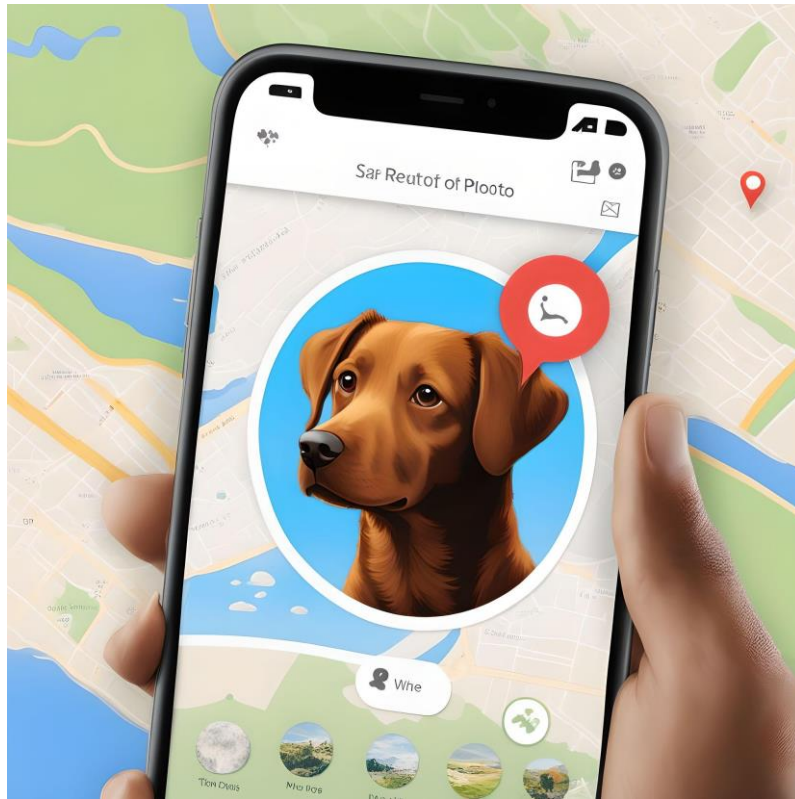5. Brief description of functionalities

Lost Dog Reporting: With this feature, users can swiftly report their lost dogs, providing vital details such as the dog's description, last known location, and a photo. This initiates a search effort to find and reunite the lost pet with its owner.

Found Dog Reporting: Users who find a lost dog can easily report their discovery through the app, sharing information about the dog's appearance and location. This feature plays a crucial role in reuniting lost dogs with their owners.

Real-time Messaging: The app facilitates real-time messaging between users, enabling seamless communication for discussing lost and found dogs. This feature allows users to coordinate efforts, exchange information, and provide support to one another within the pet-loving community.

6. Mock screens

7. UML Diagrams:

Messaging

chats[]

sendMessache(chat,userId)

recieveMessage(chat,userId

displayMessages()

User

userId

username

email

login(),
register()

DogReport

reportId
description
location
photos

createLostDogReport()

createFoundDogReport()

Chat

senderId
recieverId
chatContent

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Online ticket booking system

User Dog Founder

Search map for similar dogs

Select dog

Message owner

Mark as found

Get notification

Recieve message

Close dog report

User Lost Dog