

Team Name: Team Trailblazers

Project Name: Eldafriend

Eldafriend
RESHAPING CARE FOR OUR ELDER FRIENDS

MakerFair

**Good Health and
Wellbeing**

Team Members

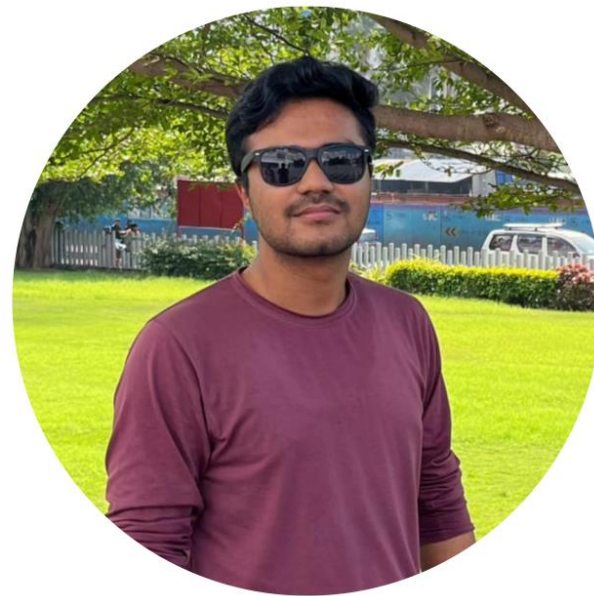


Eldafriend

RESHAPING CARE FOR OUR ELDER FRIENDS



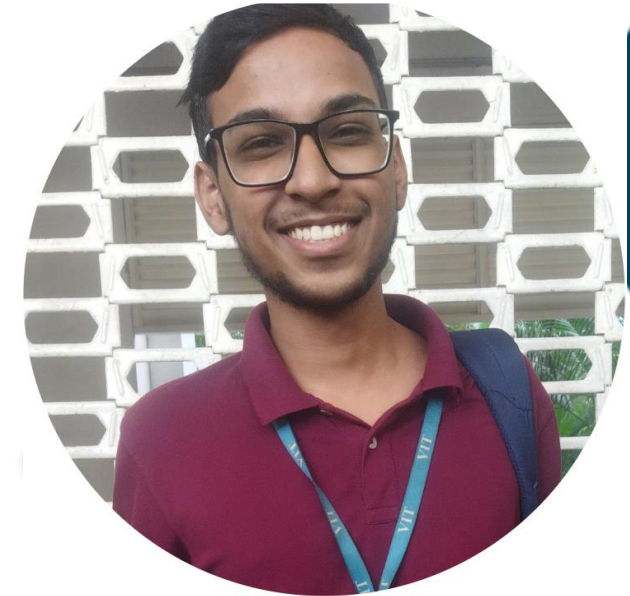
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Core Developer



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Backend



Om Aditya
Design



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Frontend

Acknowledgement Remarks (If Applicable)

Problem Statement:

- We chose "Good Health and Wellbeing" one of the 17 Sustainable Development Goals laid down by the United Nations. Our problem statement deals with ensuring personalized healthcare assistance with a special focus on the elder generation.
- We aspire to simplify the lives of millions of fathers, mothers, and grandparents around the world through our app providing them with the essential care and peace of mind that they deserve. We had a zeal to help the community which propelled us to devise a solution that could ensure healthy physical as well as mental wellbeing for the elder community.

Introduction:

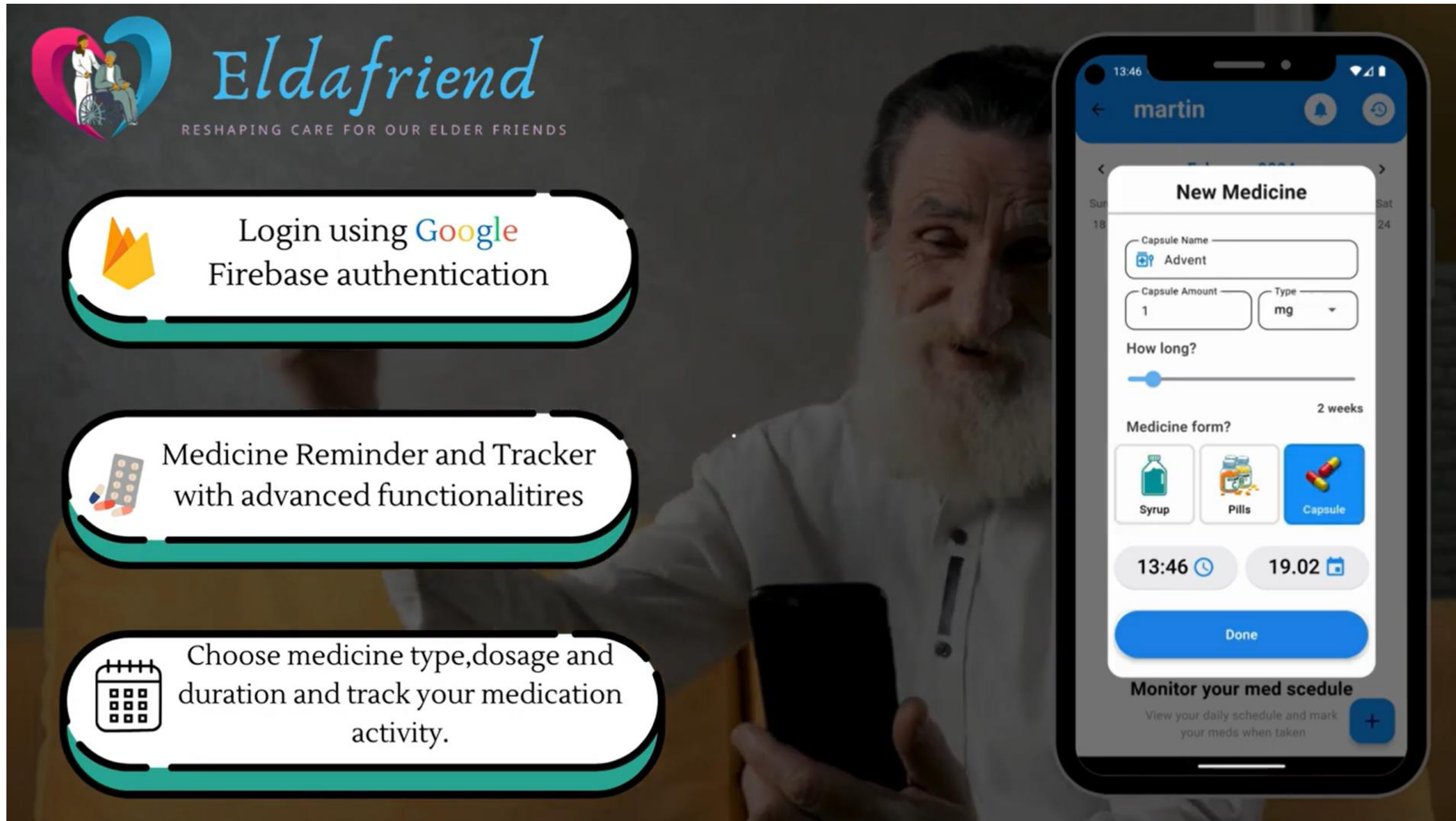
- We are solving the problem of the absence of personalized intensive care for the current elderly generation. In today's fast-paced world, the need for personalized care for elders has encouraged us to build a solution that not only caters to their needs but also fills the void for a personal caretaker who monitors their health and wellness. This application aims to ensure complete physical, emotional, and mental well-being for our elderly community and has a dedicated UI that aims to ensure an elder-friendly experience. This app is not only useful for elders but also beneficial for health enthusiasts who wish to monitor their medications and need dedicated health analysis for themselves.

Research Survey:

- 732 people with varying backgrounds were involved in organized testing sessions through the use of Google Forms, surveys, interviews, and observations. Evaluated comments to find common areas that needed improvement. Three Specific Feedback Points were:
- 1) – Elder Mode Navigation: Feedback: Some elderly users found it challenging to navigate the Elder Mode despite its simplified interface. Improvement: Enhanced Elder Mode accessibility with larger buttons, clearer labels, and an interactive tutorial for streamlined setup and improved user experience.
- 2) - UI Navigation: Feedback: Users expressed a desire for a section that can display the navigation to various in-app functionalities. Improvement: We implemented a help section inside the settings tab which describes and depicts the navigation to various in-app functionalities.

Proposed Solution:

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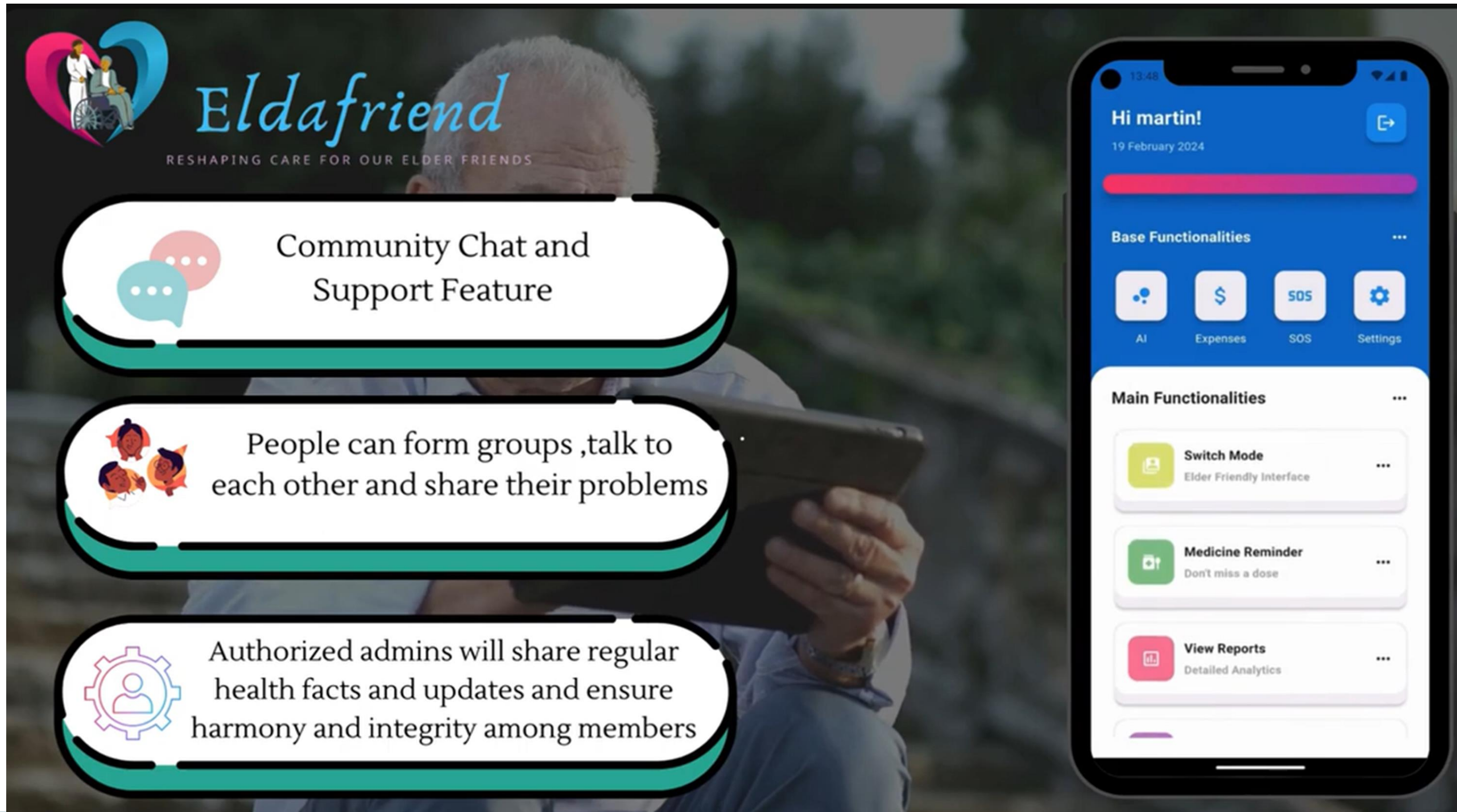
The image displays the Eldafriend app interface. On the left, the app's logo and tagline "RESHAPING CARE FOR OUR ELDER FRIENDS" are shown. Below this, three features are highlighted in rounded rectangular boxes:

- Login using Google Firebase authentication**: Accompanied by a Google logo icon.
- Medicine Reminder and Tracker with advanced functionalities**: Accompanied by a pill bottle icon.
- Choose medicine type, dosage and duration and track your medication activity.**: Accompanied by a calendar icon.

On the right, a smartphone screen shows the "New Medicine" form. The form includes fields for "Capsule Name" (with a dropdown menu showing "Advent"), "Capsule Amount" (set to 1), and "Type" (set to mg). Below these is a "How long?" section with a slider set to 2 weeks. The "Medicine form?" section has three options: Syrup, Pills, and Capsule (which is selected). At the bottom of the form are two time slots: 13:46 and 19:02, each with a clock icon. A blue "Done" button is at the bottom of the form. Below the form, there is a section titled "Monitor your med scedule" (sic) with a plus icon and the text "View your daily schedule and mark your meds when taken".

Proposed Solution:

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The image displays the Eldafriend app interface and its key features. On the right, a smartphone screen shows the app's home screen with a blue header, a greeting 'Hi martin!' and the date '19 February 2024'. Below this is a 'Base Functionalities' section with icons for AI, Expenses, SOS, and Settings. The 'Main Functionalities' section includes 'Switch Mode' (Elder Friendly Interface), 'Medicine Reminder' (Don't miss a dose), and 'View Reports' (Detailed Analytics). On the left, three feature highlights are presented in white rounded rectangles with green borders, each accompanied by an icon: 'Community Chat and Support Feature' (speech bubbles), 'People can form groups, talk to each other and share their problems' (group of people), and 'Authorized admins will share regular health facts and updates and ensure harmony and integrity among members' (gear and person icon). The background of the entire slide features a blurred image of an elderly man holding a tablet.

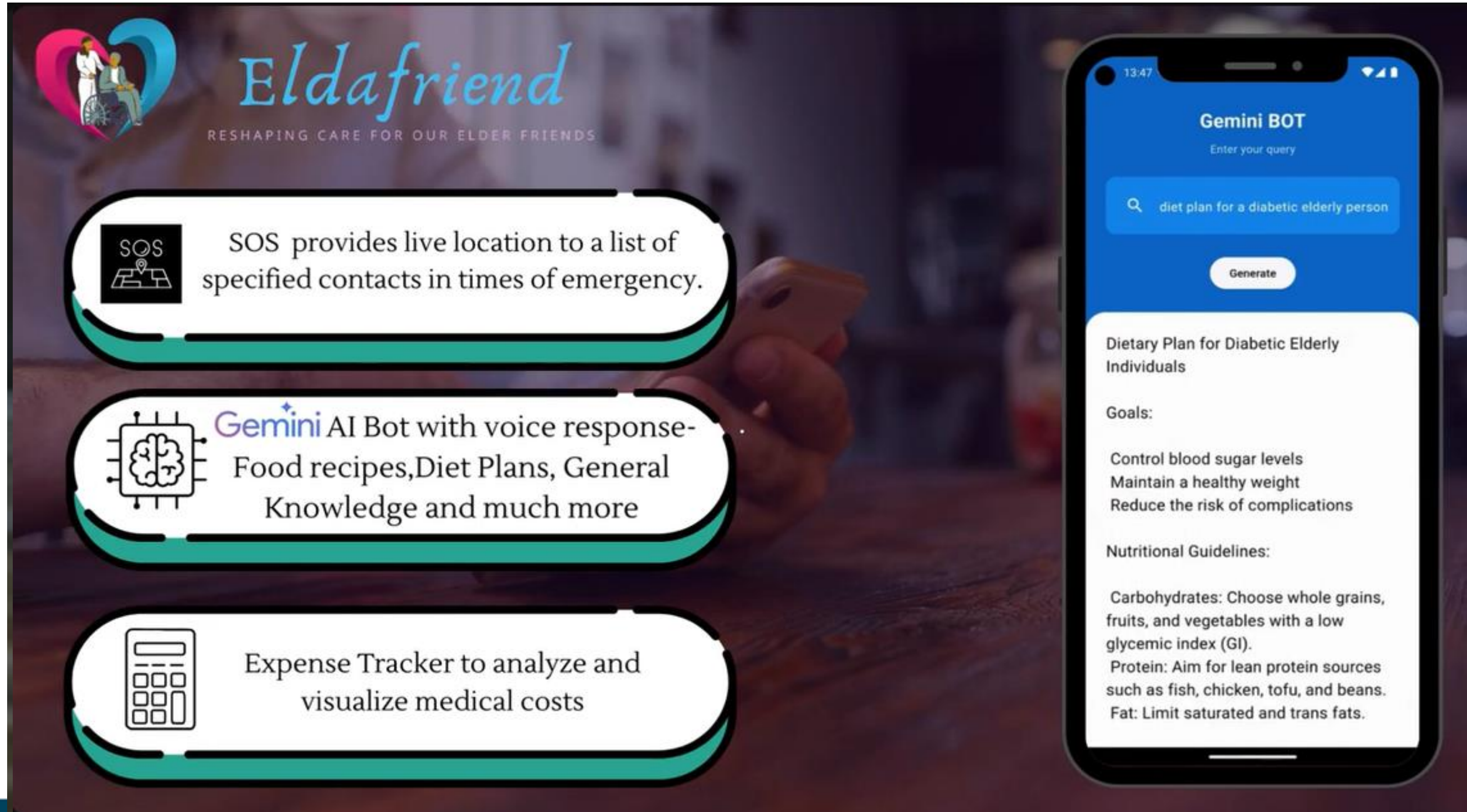
Community Chat and Support Feature

People can form groups, talk to each other and share their problems

Authorized admins will share regular health facts and updates and ensure harmony and integrity among members

Proposed Solution:

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Eldafriend
RESHAPING CARE FOR OUR ELDER FRIENDS

- SOS** provides live location to a list of specified contacts in times of emergency.
- Gemini AI Bot** with voice response- Food recipes, Diet Plans, General Knowledge and much more
- Expense Tracker** to analyze and visualize medical costs

Gemini BOT
Enter your query

Search: diet plan for a diabetic elderly person

Generate

Dietary Plan for Diabetic Elderly Individuals

Goals:

- Control blood sugar levels
- Maintain a healthy weight
- Reduce the risk of complications

Nutritional Guidelines:

- Carbohydrates:** Choose whole grains, fruits, and vegetables with a low glycemic index (GI).
- Protein:** Aim for lean protein sources such as fish, chicken, tofu, and beans.
- Fat:** Limit saturated and trans fats.

Proposed Solution:

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OUR SHOWSTOPPER
DUAL MODE

The PIN protected dual mode features ensure a separate simple and minimalistic User Interface, which makes it a lot easier for the elder generation to navigate and execute the most essential features of the app,

Set Up SOS

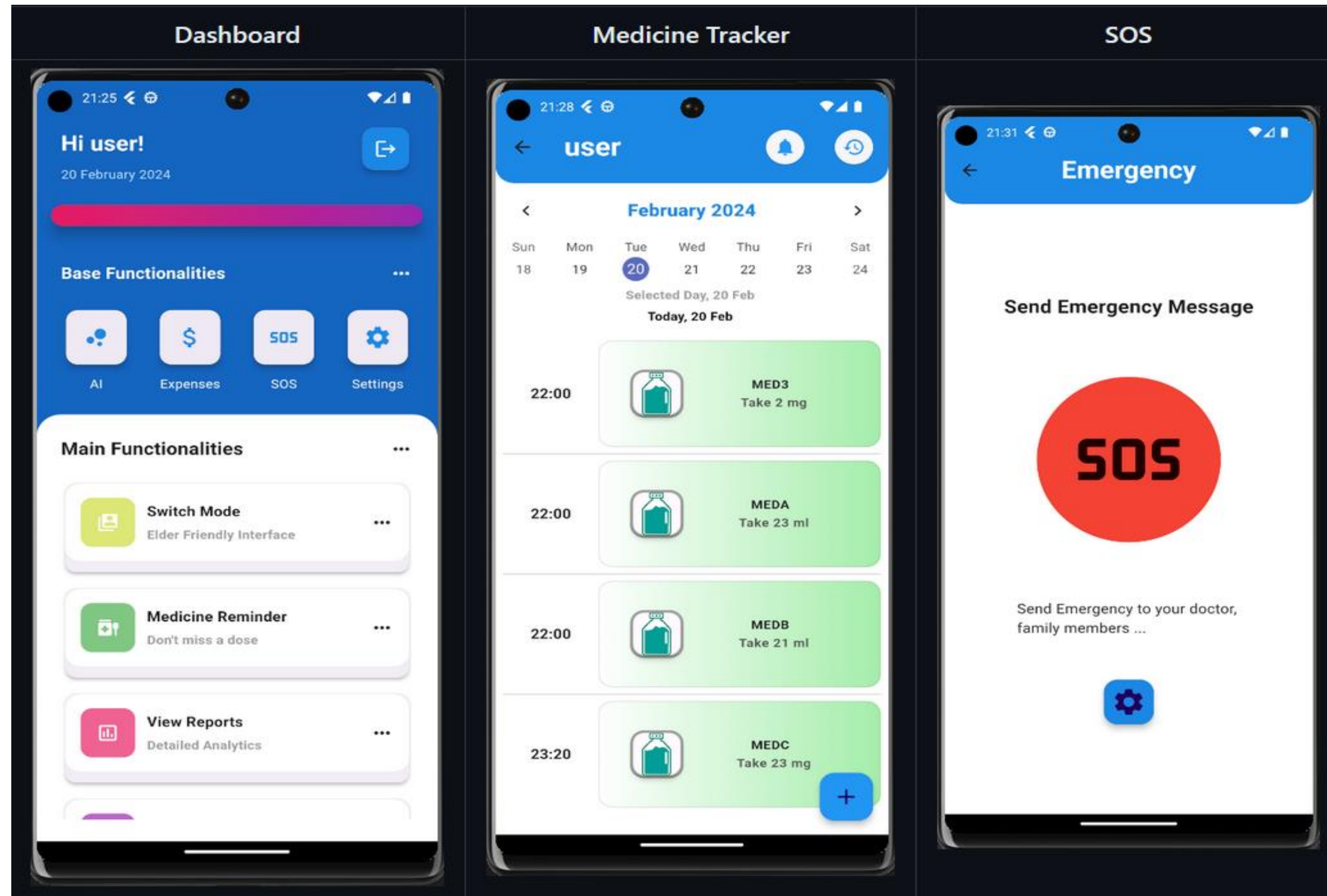
Enter Pin
Enter your new pin
OK

Notifications >
Help >

1 2 3 -
4 5 6 _
7 8 9 ✕
, 0 . ✓

Prototype:

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Advantages:

- 1.Interactive Interface:** The app's easy-to-use and interactive interface makes it accessible to users of all ages, including the elder generation.
- 2.Medicine Reminder/Tracker:** This feature helps users stay on track with their medication schedule, reducing the chances of missing doses and improving health outcomes.
- 3.Report Analysis:** Providing insights about medicine intake activities can help users and healthcare providers make informed decisions about medication management.
- 4.Elder Mode:** The dual-mode feature with a simplified interface caters specifically to the elder generation, making the app more user-friendly for them.
- 5.Communities:** The community chat and support feature fosters social connections, provides a platform for sharing experiences and knowledge and promotes mental well-being.
- 6.Gemini AI:** Integration with AI technology can provide personalized assistance regarding diet plans, recipes, and other health-related queries.
- 7.Expense Tracker:** Including an expense tracker adds value to the app by helping users manage their healthcare expenses effectively.
- 8.SOS Feature:** The SOS feature adds an extra layer of safety by providing a live location to specified contacts during emergencies.

Disadvantages:

Technical Difficulties: Creating and sustaining features like secure communication channels, real-time location sharing, and AI integration can be difficult technically and call for ongoing updates and advancements.

User acceptance: Although the app is designed to be accessible to a broad spectrum of users, it may be necessary to make additional efforts in user education and support to ensure high user acceptance, particularly among the elderly population.

Resource-intensive: A substantial amount of development, infrastructure, and continuing maintenance may be needed to implement and maintain all of the features listed.

Conclusion:

Through our flutter-based mobile application, we aim to provide health assistance, tracking, and monitoring facilities at people's fingertips. Combined with additional facilities like Community Chat group, SOS feature, medical charts, expense tracker, charts and reports analysis along with the support of Gemini AI bot for complete homely assistance ensuring a carefree and happy life for our elder generation.

Thank You

