

# MIDCARE SYSTEM

# Project Team Members

Names	Role
Ahmed Ali	FE + BE + Mobile + DevOps
Mohamed Adel	Backend Development
Mohamad Al-Kafrawy	Frontend Development
Mahmoud Abdel-Latif	DevOps
Aly Eldin Ahmed	Backend Development
Hassan Alaa	Frontend Development

# Agenda

1. Introduction
2. User Dashboard
3. User Management
4. Emergencies
5. Donation Process
6. System Activates

# Introduction

# Introduction

The Blood Bank System Application is a platform is crafted to transform and elevate the blood donation process. By seamlessly connecting blood banks, donors, and recipients, the application ensures that the vital act of blood donation is efficient, safe, and straightforward. In a world where timely access to blood can save countless lives, our application steps in to bridge gaps and create a cohesive network that respond effectively to the urgent needs of the community.

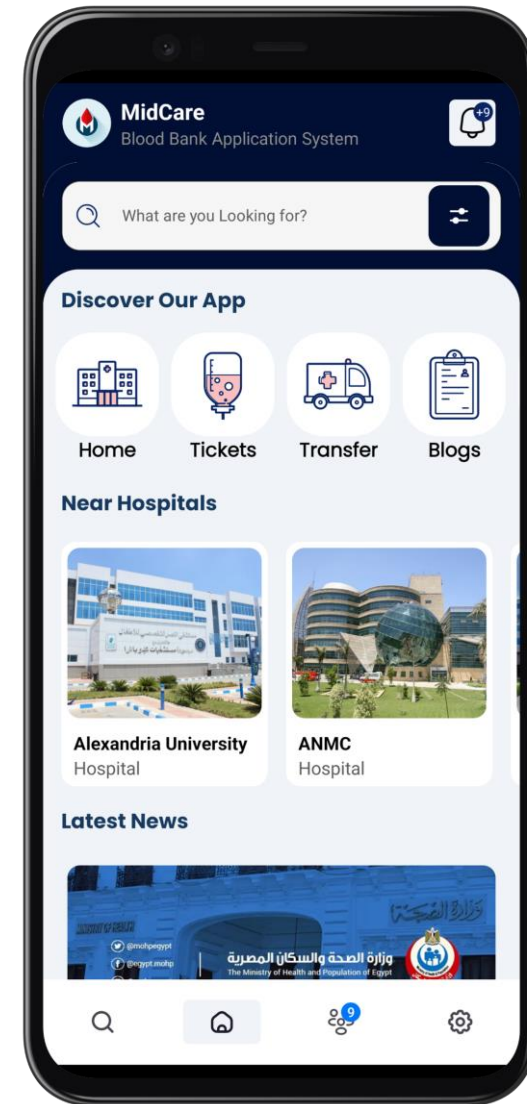
## **Key Features of the Application:**

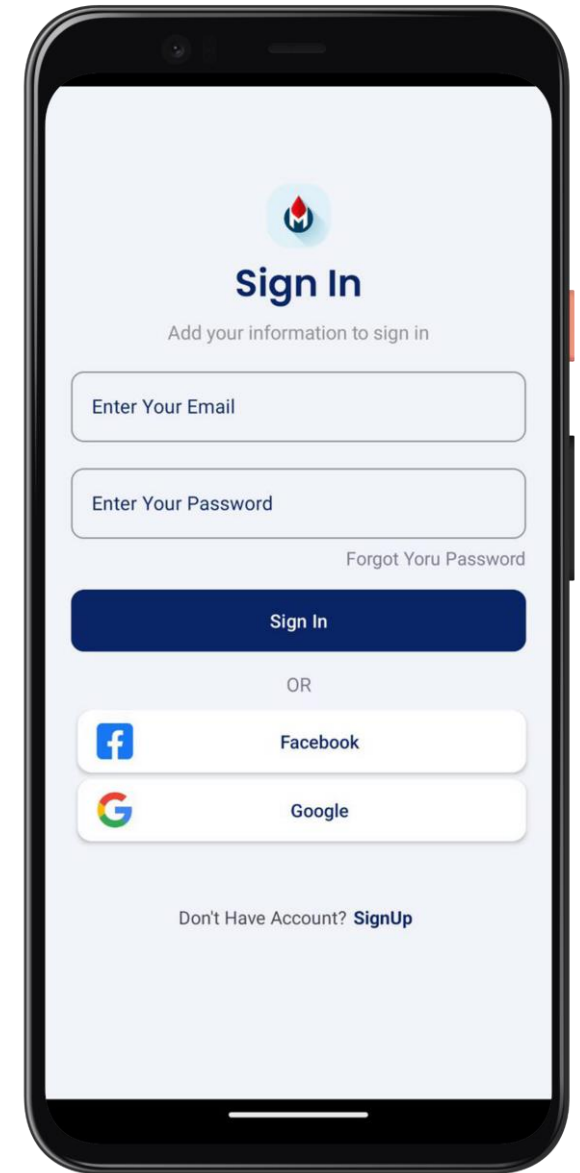
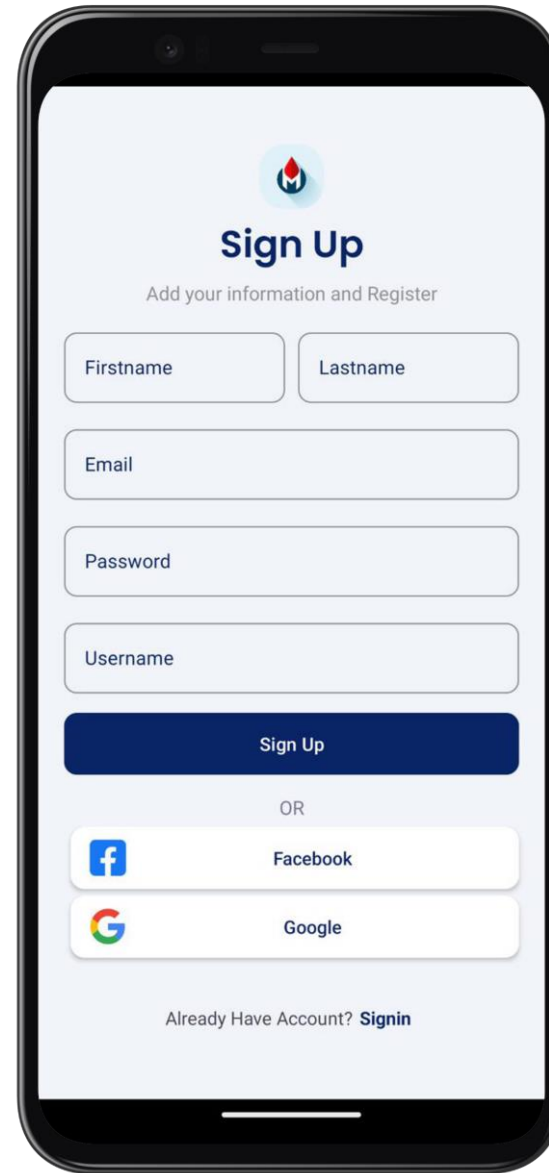
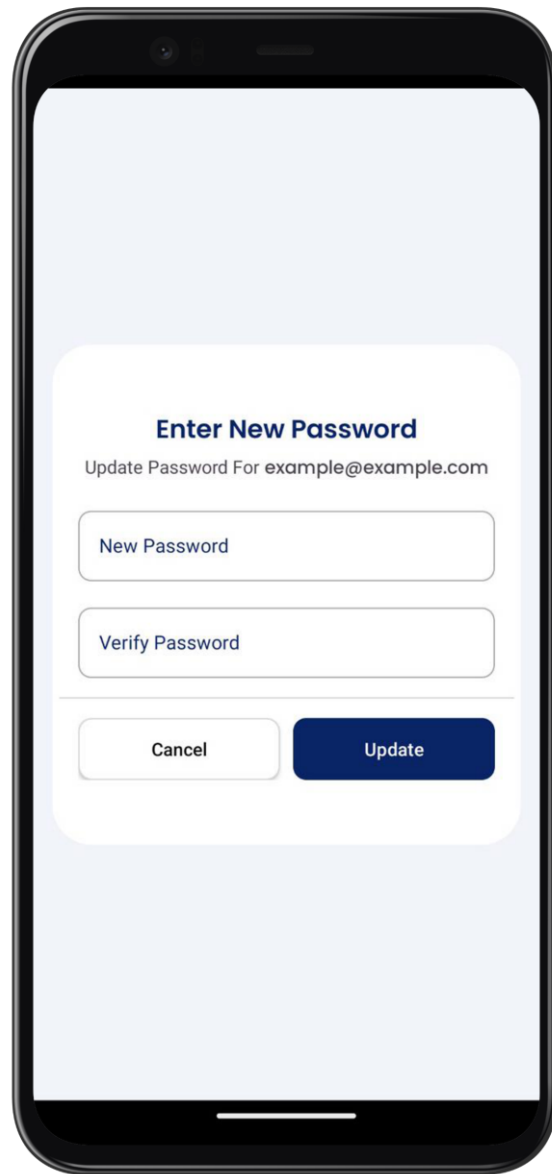
1. News, Blogs, and Insights
2. Blood Transfer and Ticketing System
3. Nearby Hospital Locator
4. Emergency Alerts and Scheduling
5. User Profile Management
6. Interactive User Experience

# DASHBOARD

# Dashboard

Application dashboard is designed to be your central hub, making it easy and intuitive to navigate through all the features you need. With a user-friendly interface, you can effortlessly access the latest blogs and insights about blood donation and health. The settings menu lets you personalize your experience, while the emergencies section keeps you updated with real-time alerts about critical blood shortages and urgent needs.



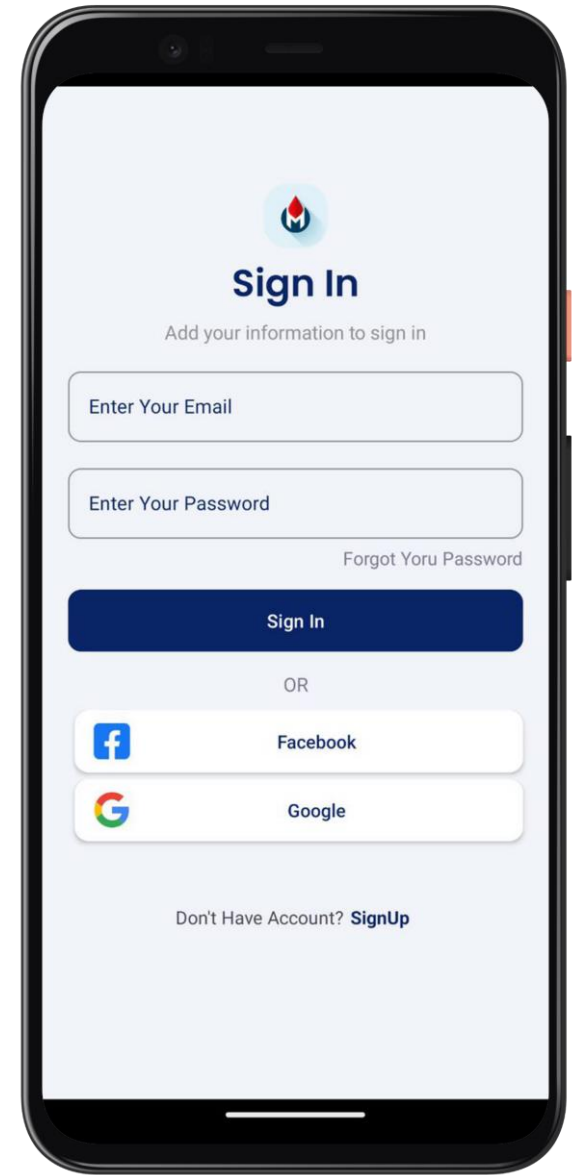
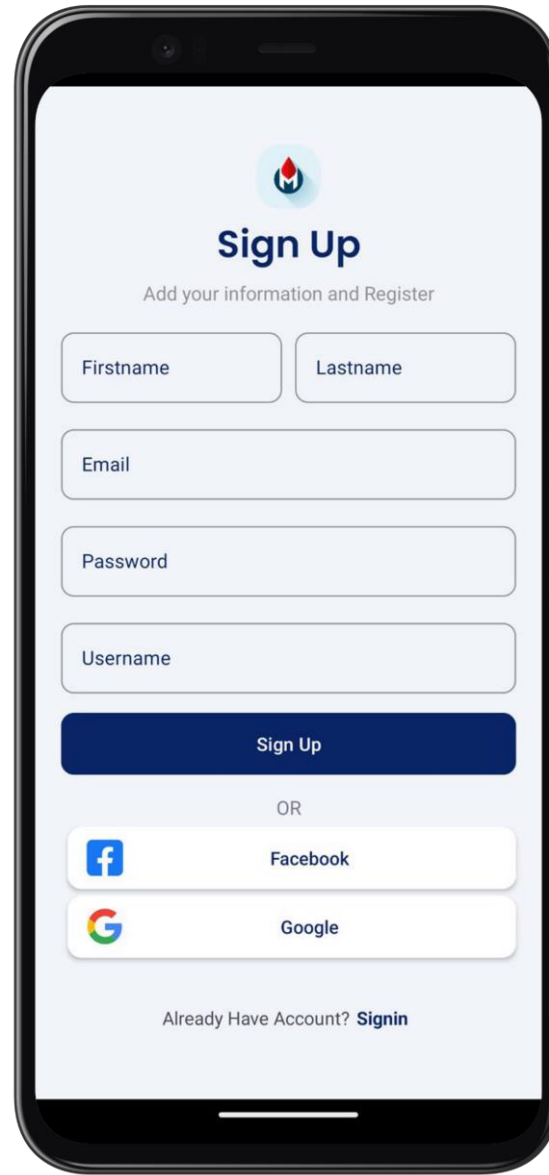
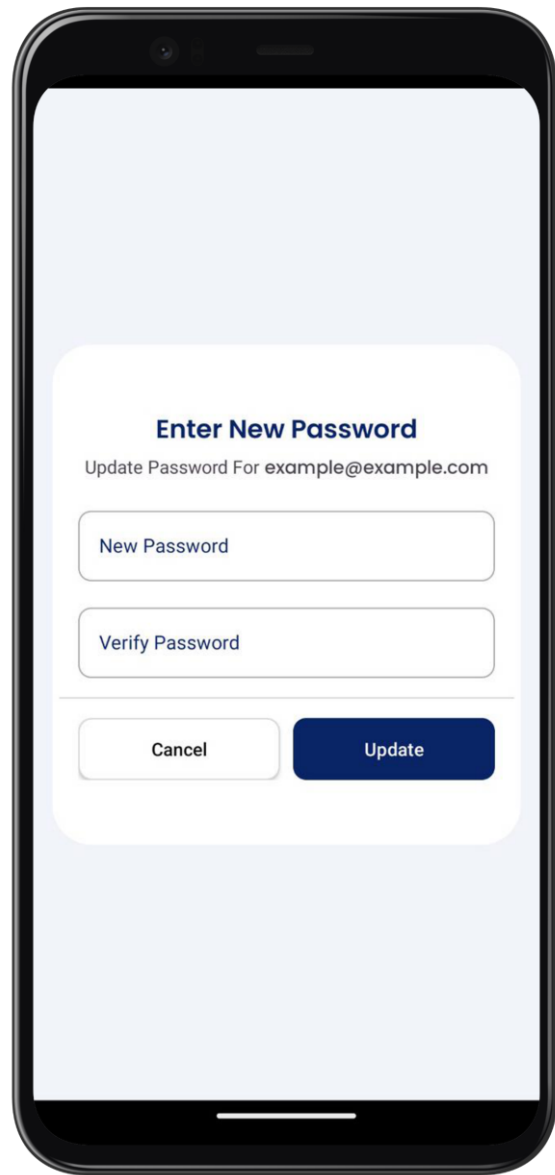




# USER MANAGEMENT

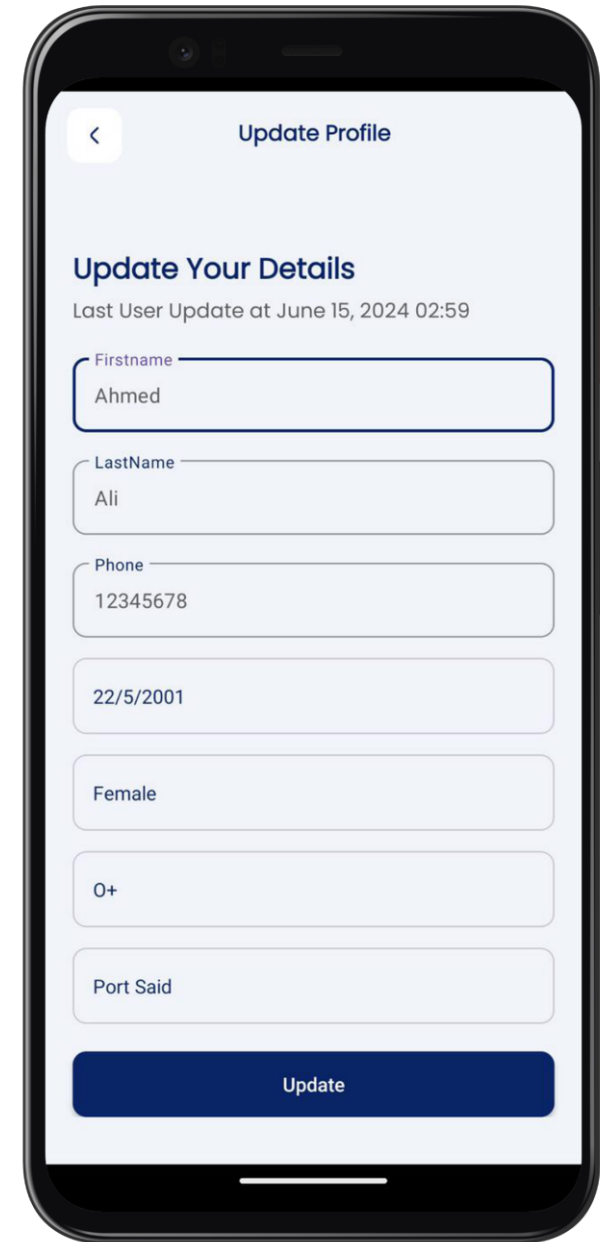
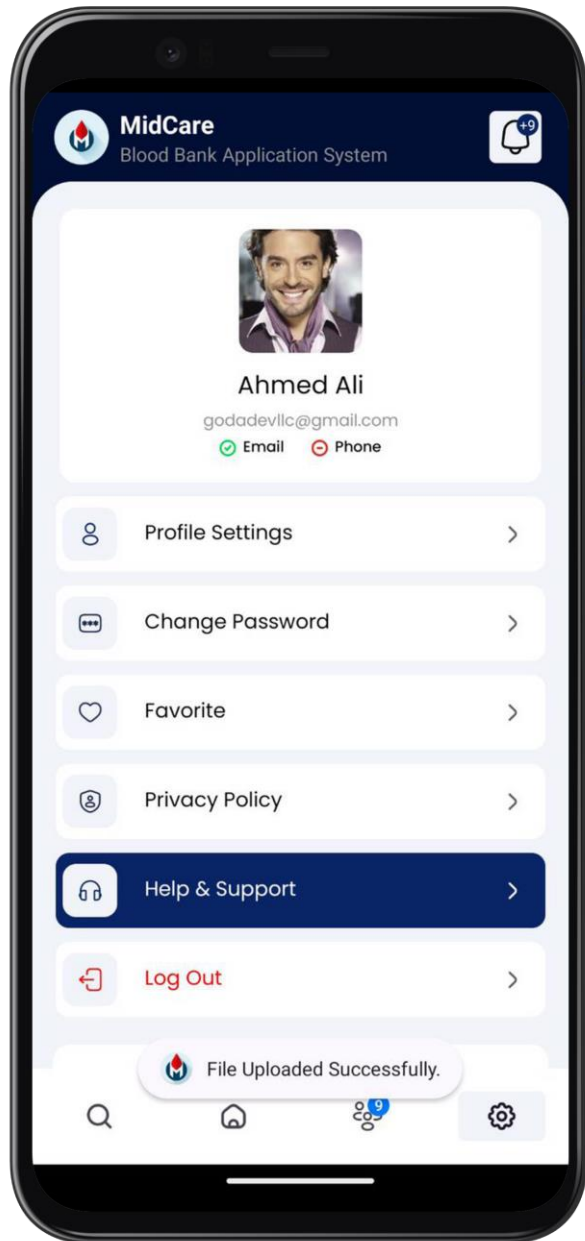
# System Registration

The registration process in our Blood Bank System Application is designed to ensure simplicity and security for all users. When registering, users provide basic information such as their name, email address, and password to create an account. Once registered, a verification email is sent to confirm their identity and safeguard their account integrity. For existing users, signing in is straightforward—simply enter the registered email and password. To enhance security, JWT tokens manage each session securely. In cases where users forget their passwords, they can easily reset them by requesting a password reset link sent to their email. This process ensures smooth access to their account while maintaining robust data protection measures throughout the application.



# User Profile Management

In our Blood Bank System Application, user profile management is designed to empower users with control over their information and preferences. Users can update essential details such as their blood type, date of birth (DOB), and phone number. The application calculates the user's age to facilitate optimal donation scheduling and to determine eligibility for certain blood types. Additionally, users can update their profile photo, enhancing personalization and identification. The system also allows users to specify their area, which is utilized to locate nearby hospitals and blood donation centers efficiently. This feature ensures that users can easily find the nearest facilities and contact them if needed, fostering convenience and accessibility throughout their donation journey.



# EMERGENCIES

# Emergencies

Allows administrators to quickly add new emergencies as they occur. When an emergency is added, users receive immediate notifications, so they stay informed about critical blood shortages or specific blood type needs. Users can then access detailed information including descriptions and images related to each emergency, helping them understand the urgency and what's required. Additionally, users can see the location of the emergency on a map, which helps them make informed decisions.





October 28, 2023

## Two cars collided in Shaha, Dakahlia

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Assumenda beatae dolor illum pariatur sunt. C...

5\$/H | Cairo, Egypt | ASAP

### Priority

High

Medium

Low

### Blood Type

A+

A-

B+

B-

O+

O-

### Location

Cairo

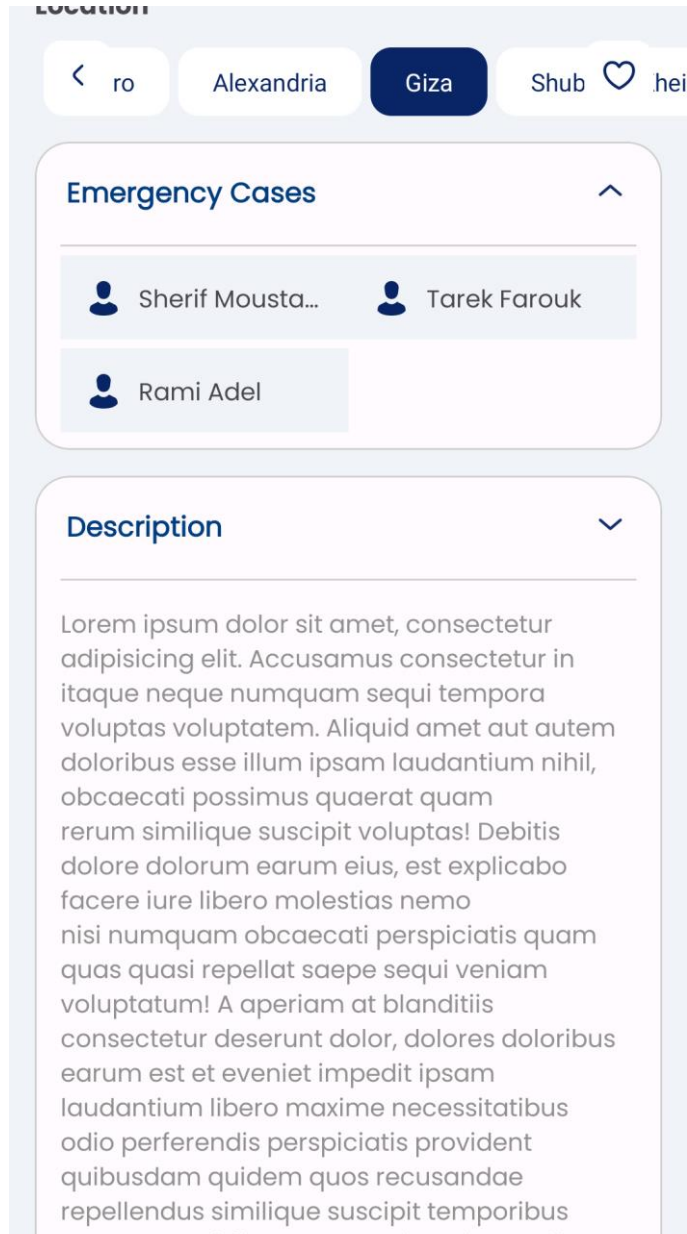
Alexandria

Giza

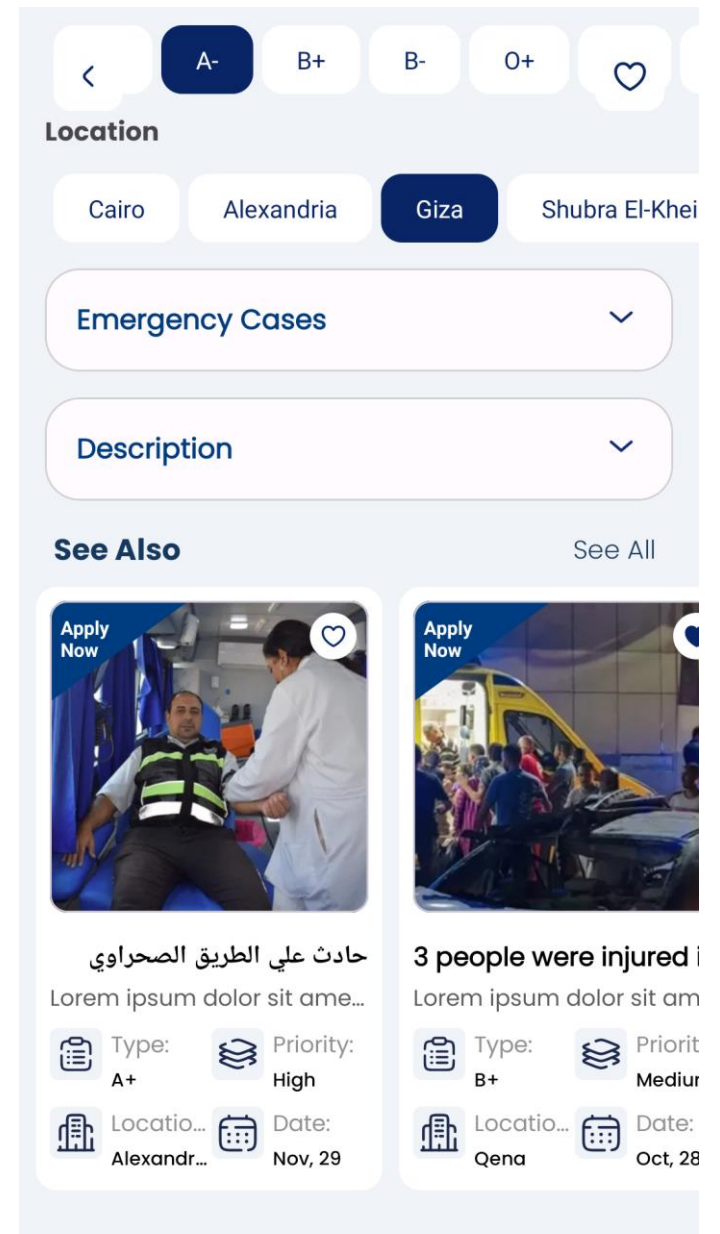
Shubra El-Khei



Schedule Appointment



Schedule Appointment

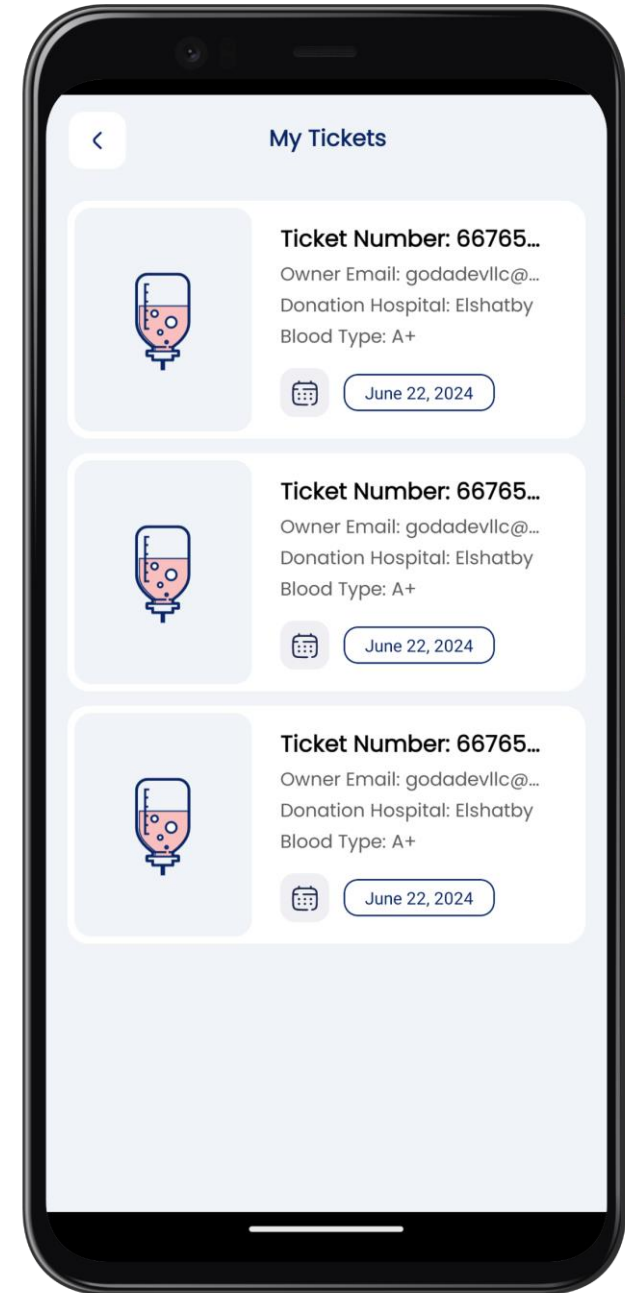


Schedule Appointment



# Tickets

Welcome, everyone . Today, we explore the critical aspects of modern blood banking and transfusion services . From efficient donor registration and rigorous testing protocols to advanced inventory management and emergency preparedness, we highlight how innovation ensures safe and timely access to vital blood products . Join us as we delve into these key areas shaping the future of healthcare delivery.





### Transfer Blood Ticket

Your Have 2 Blood Tickets

Enter Reciever Email

|

#### Select Blood Type

6655ad872575122f31605af5

6655ad9c2575122f31605af6

Cancel

Transfer



### Transfer Blood Ticket

Your Have 3 Blood Tickets

Enter Reciever Email

hasaanalaa60@gmail.com

664832b52357275a0537f7db

Receiver Name

Check Name of Reciever

Transfer



### Transfer Blood Ticket

Your Have 3 Blood Tickets

Enter Reciever Email

ousaadel19@gmail.com

664832b52357275a0537f7db

Mohamed Adel

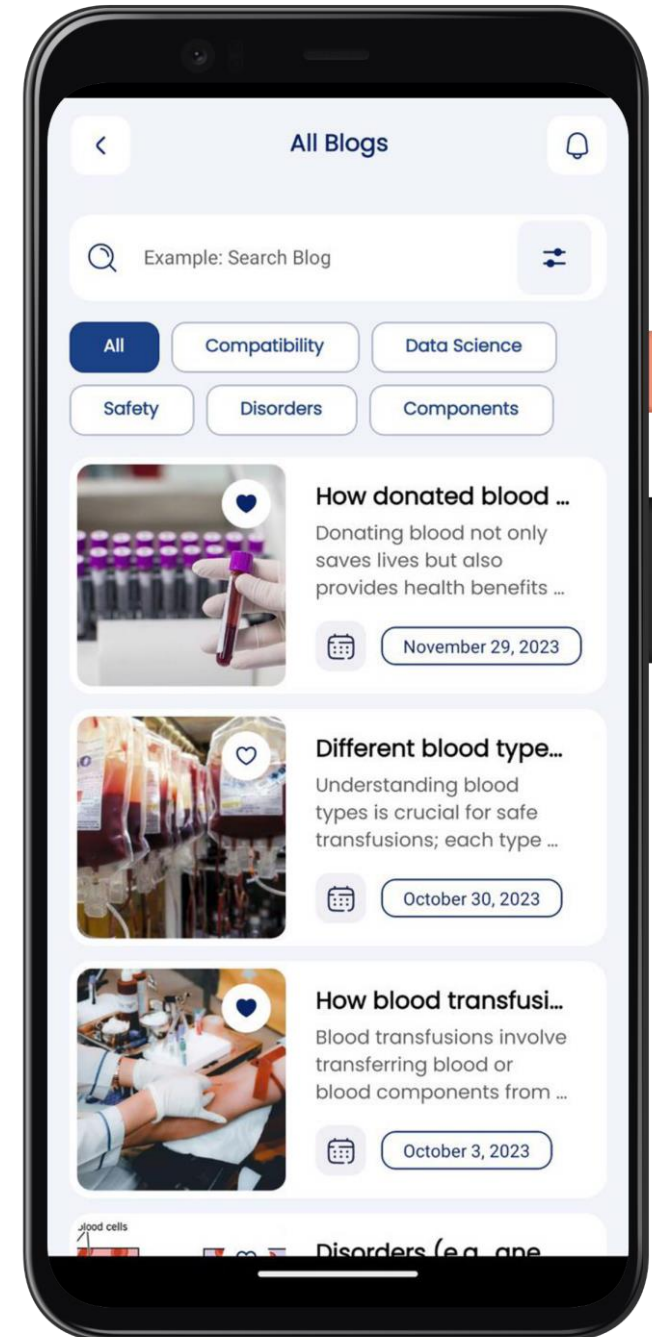
Check Name of Reciever

Transfer

**BLOGS**

# Blogs

Users have access to a comprehensive blog section where they can explore informative articles curated by administrators. These blogs cover a wide range of topics related to blood donation, medical information, and health tips. Users can interact with the blogs by liking them, which adds the blog to their favorites for easy access later on. Each blog includes details about the author, Users can also discover related blog suggestions, allowing them to delve deeper into topics of interest





November 29, 2023

## How donated blood is tested for safety

Donating blood not only saves lives but also provides health benefits to donors, such as improv...



Time  
12 min



Category  
Technology



Category  
Category

Author



Ahmed Ali

Software Engineer

Employee Verified

Author



Ahmed Ali

Software Engineer

Employee Verified

Blog

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Debitis doloribus ex, itaque nam non perferendis quae? Ad aliquid amet assumenda aut culpa cum deleniti dolor earum, eos error eveniet expedita explicabo fugit, hic ipsa ipsam iste iure laboriosam modi natus neque numquam odio omnis optio perspiciatis qui quis quo, quod similique sit vitae voluptatem voluptates voluptatum? Ab neque nobis omnis sed. Ad aliquid amet debitis delectus doloremque dolorum esse, labore laudantium minima mollitia nihil numquam praesentium quam quisquam, quo, quos reiciendis reprehenderit sit suscipit voluptate. Ad, adipisci consequatur cumque debitis distinctio dolor eaque et excepturi ipsa mollitia nesciunt ratione tempore voluptate. Asperiores aspernatur commodi, consectetur dicta distinctio dolorem, dolores exercitationem in iusto minima modi, nam nihil non nulla obcaecati pariatur quae quaerat ratione reprehenderit tempore ullam velit vitae voluptatibus? Accusamus asperiores blanditiis consectetur impedit laborum nisi optio qui velit vero voluptatibus. Ab, aperiam asperiores cum cumque deserunt eius enim cum eveniet ex, harum itaque laborum mollitia

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Category  
Technology

Category  
Category

Author



Ahmed Ali

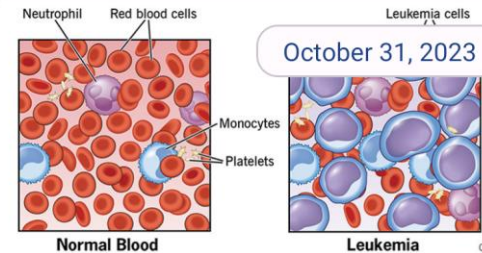
Software Engineer

Employee Verified

Blog

See Also

See All



Disorders

### Disorders (e.g., anemia, hemop...

Blood disorders like anemia, hemophilia, and leukemia affect the production and f...



Read More



Disor

### Lates

Advanc  
leading



**OTHER**



## Help and Support



Search Question



### Common Questions

? Are there examples of innovative solutions y...

? Can I find case studies or success stories of ...

? How do you gather requirements and specifi...

? Typical process for engaging with your comp...

? What challenges did you help clients overco...

[View All Questions](#)

Contact **MidCare** on the following accounts

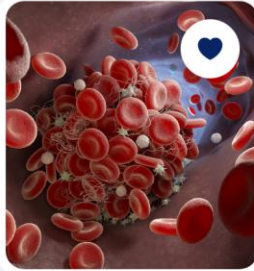


## Favourites

Emergencies 1

**Blogs 3**

Insights 2



### Conditions related t...

Optimize network traffic distribution, ensuring redundancy, reliability, a...



October 2, 2023



### How donated blood ...

Donating blood not only saves lives but also provides health benefits ...



November 29, 2023



### How blood transfusi...

Blood transfusions involve transferring blood or blood components from ...



October 3, 2023

Item deleted

[Undo](#)



## Notifications



May 13, 2024 5:54 AM

**Ahmed Goda**

example body



May 13, 2024 5:54 AM

**Ahmed Goda**

example body



May 13, 2024 5:54 AM

**Ahmed Goda**

example body

# ADMIN DASHBOARD



# Admin Dashboard

Medical UI



Search here...



MAIN

Dashboard

USERS BENEFIT 'S

Users

Ticket

Blog

insight

HOSPITAL

Blood Bag

new

hospitals

Emergency

Appointment

AUTH

LogOut

## Welcome To Admin Panal



NEW USERS

3,897

+3.3% ↑



LATEST DONATION

35,084

-2.8% ↓



GROWTH

89.87%

+2.8% ↑



LAST 8 TICKETS

...

USERS

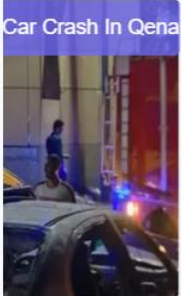




#	PROFILE	USER NAME	GENDER	AUTHORITIES	BLOOD TYPE	LOCATION
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# Admin Dashboard Emergencies




## Medical UI

Search here...

REVIEW EMERGENCY

- Car Crash In Qena**  
  
Medium
- A Fire In A House In Aswan**  
  
Medium
- Senior Mobile Developer Android**  
  
High
- 12 People Were Injured In A Minibus Overtum**  
  
Low
- Two Cars Collided In**  
  
High

ALL EMERGENCY

- 
- 
- 

# Admin Dashboard Tickets

**Medical UI** ☰ 🔍 Search here... 👤

**MAIN**

- Dashboard

**USERS BENFIT 'S**

- Users
- Ticket**
- Blog
- insight

**HOSPITAL**

- Blood Bag new
- hospitals
- Emergency
- Appointment

**AUTH**

- LogOut

### TICKETS

**ADD**

#	OWNER EMAIL	HOSPITAL TITLE	DONATION DATE	EXPIRY DATE	TRANSFER DATE	ACTIONS	
1	ousaadel19@gmail.com	Gamal Abdelnasser	2024-06-01	2024-06-06	2024-06-22	<b>DELETE</b>	<b>UPDATE</b>
2	hassanalaa6060@gmail.com	Alexandria University	2024-05-24	2024-05-31	2024-05-24	<b>DELETE</b>	<b>UPDATE</b>
3	hassanalaa6060@gmail.com	ANMC	2024-05-24	2024-06-08	2024-05-24	<b>DELETE</b>	<b>UPDATE</b>
4	hassanalaa6060@gmail.com	6652fefcf607a025e108d6fb	2024-05-29	2024-06-30	2024-06-03	<b>DELETE</b>	<b>UPDATE</b>
5	hassanalaa6060@gmail.com	Elite Hospital	2024-05-28	2024-06-08	2024-05-28	<b>DELETE</b>	<b>UPDATE</b>
6	ousaadel19@gmail.com	Suez Medical Complex	2024-05-28	2024-06-08	2024-06-22	<b>DELETE</b>	<b>UPDATE</b>
7	ousaadel19@gmail.com	Elite Hospital	2024-05-28	2024-06-07	2024-06-22	<b>DELETE</b>	<b>UPDATE</b>

# System Components

## Admin Dashboard

Admin dashboard give full control over the application web or mobile where admin can manage users, other admins, tickets, blogs, insights, hospitals, emergencies, this dashboard will be provided to hospitals with different authorizations

## User Mobile Application

User Application give users accessibility to our application and benefits from all provided features. The advantage of using the mobile application is receiving notifications about emergencies, as it is faster and more user-friendly

## User Web Application

The Web Application for in addition providing the features it is accessible from all devices and no need to install any application this will make use of our application on other devices like desktop, large screens.

# Future Work

## **Implementation of Payment System:**

Introducing a secure payment gateway to facilitate monetary contributions supporting blood donation initiatives and platform sustainability.

## **OAuth Integration:**

Incorporating OAuth authentication to enable seamless login using credentials from trusted platforms like Google or Facebook, enhancing user convenience and security.

## **AI and Machine Learning Integration:**

Harnessing AI and machine learning algorithms to optimize donor matching and blood supply management. Analyzing donation patterns and health data to predict and manage blood demands effectively, ensuring timely availability and distribution.

# References

<https://spring.io/projects/spring-boot>

<https://docs.docker.com/> <https://developer.android.com/develop>

<https://devdocs.io/angular/> <https://www.mongodb.com/docs/>

[https://en.wikipedia.org/wiki/Simple\\_Mail\\_Transfer\\_Protocol](https://en.wikipedia.org/wiki/Simple_Mail_Transfer_Protocol)

<https://firebase.google.com/docs>

<https://docs.oracle.com/javase/8/docs/api/java/lang/Thread.html>

<https://docs.github.com/en/actions>

# Conclusion

In conclusion, our Blood Bank System Application stands as a pivotal tool in enhancing the blood donation process. By seamlessly connecting blood banks, donors, and recipients, we ensure efficiency, safety, and accessibility in every interaction. Through robust features like emergency management, user-friendly profiles, and informative blogs, we empower our community to contribute meaningfully to lifesaving initiatives. With a focus on innovation and user-centric design, we continue to uphold the highest standards of healthcare support, making a tangible difference in improving health outcomes and saving lives.