

Bangladesh Army University of Engineering Technology (BAUET)

Medicine Service System

Our Vision for a Safer Bangladesh

Introduction

- Solves critical delays in Bangladesh's emergency medical responses in Bangladesh.
- A digital platform connecting patients, ambulances, and hospitals in real-time.
- Aims to reduce response times and save lives in both urban and rural areas.
- Features one-tap emergency calls, live ambulance tracking, and hospital bed availability.

Objective

- Create a single platform for communication between patients, ambulances, and hospitals.
- Provide real-time GPS tracking of ambulances.
- Offer guided first-aid instructions through the platform.
- Ensure accessibility via mobile app and web for all.
- Provide real-time ambulance location and ETA tracking.

Key Advantages

- Faster response
- Life-saving guidance
- Scalable and secure
- Nationwide access
- Data-driven decisions

Limitation

- Internet dependency
- Third-party service reliance
- User adoption challenge
- Real-time data accuracy needed
- Cannot solve traffic congestion
- Needs collaboration from multiple hospitals & services.

Feasibility

- **Integrated Network:** Connects users to the nearest available ambulances and hospitals.
- **Community Support:** Integrates a network of trained volunteers for crowdsourced assistance.
- **Medical QR Code:** Provides instant access to critical patient medical information.
- **Disaster Mode:** Optimizes resource allocation during mass casualty events.
- **Multilingual & Accessible:** Supports Bangla & English with visual aids for language barriers.

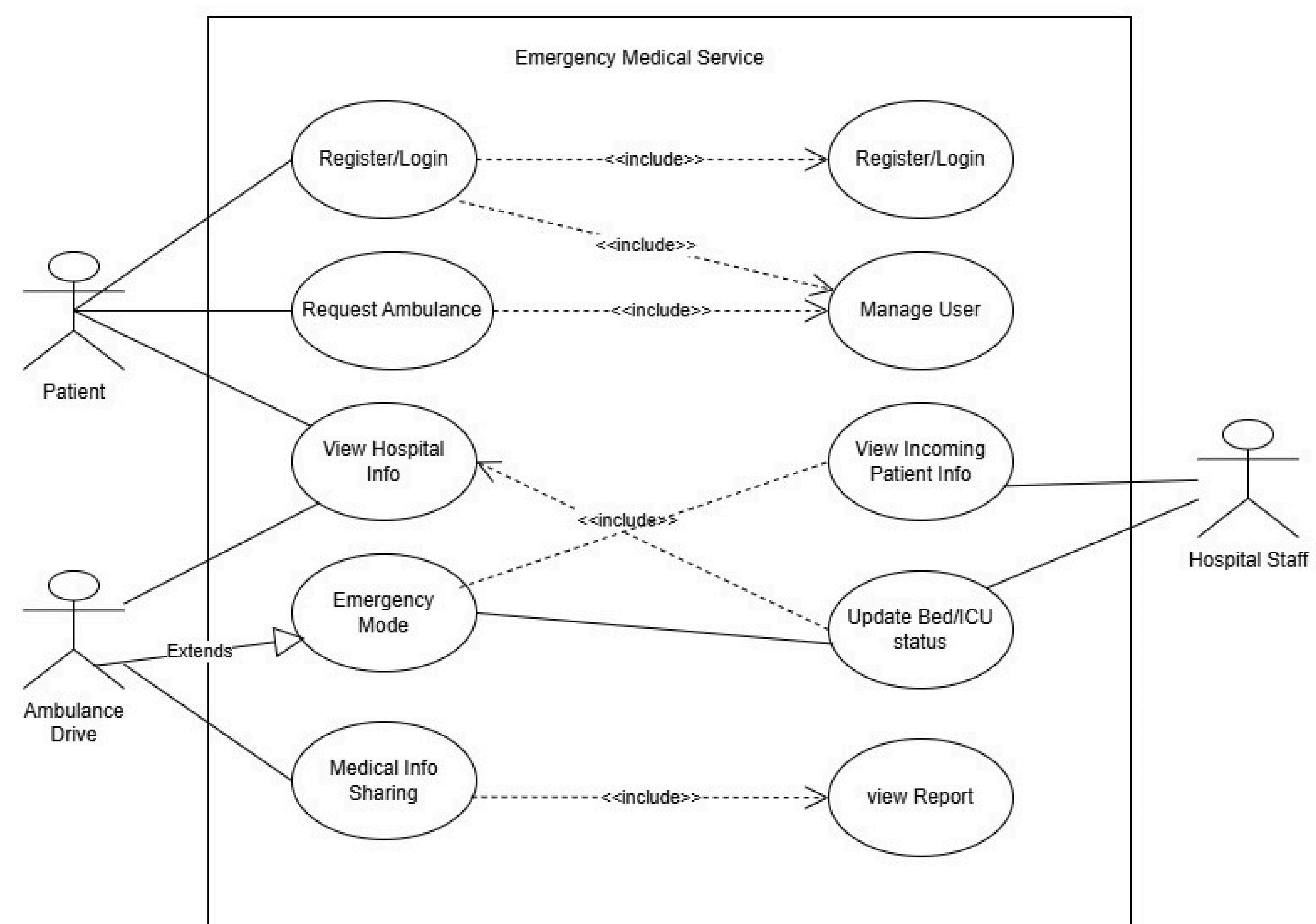
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Use -Case Diagram



System Design

- Data Flow Diagram (DFD)
- Use Case Diagram
- Class Diagram
- ER Diagram

Conclusion

Medi_Serve is a digital emergency system that connects patients, ambulances, and hospitals in real-time. By using a central platform with live tracking and it aims to reduce critical response times, save lives, and improve emergency healthcare across Bangladesh. Combining innovation with community participation—has the strong potential to drastically reduce response times, improve medical outcomes, and save countless lives across both urban and rural areas.