



RespondiFy:

Revolutionizing Rescue Operations

Rescue operations are critical in times of crisis, and technology is revolutionizing the way they are conducted .Enhancing the speed, effectiveness, and coordination of rescue efforts.

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Challenges in Traditional Rescue Efforts:

1 Limited Situational Awareness

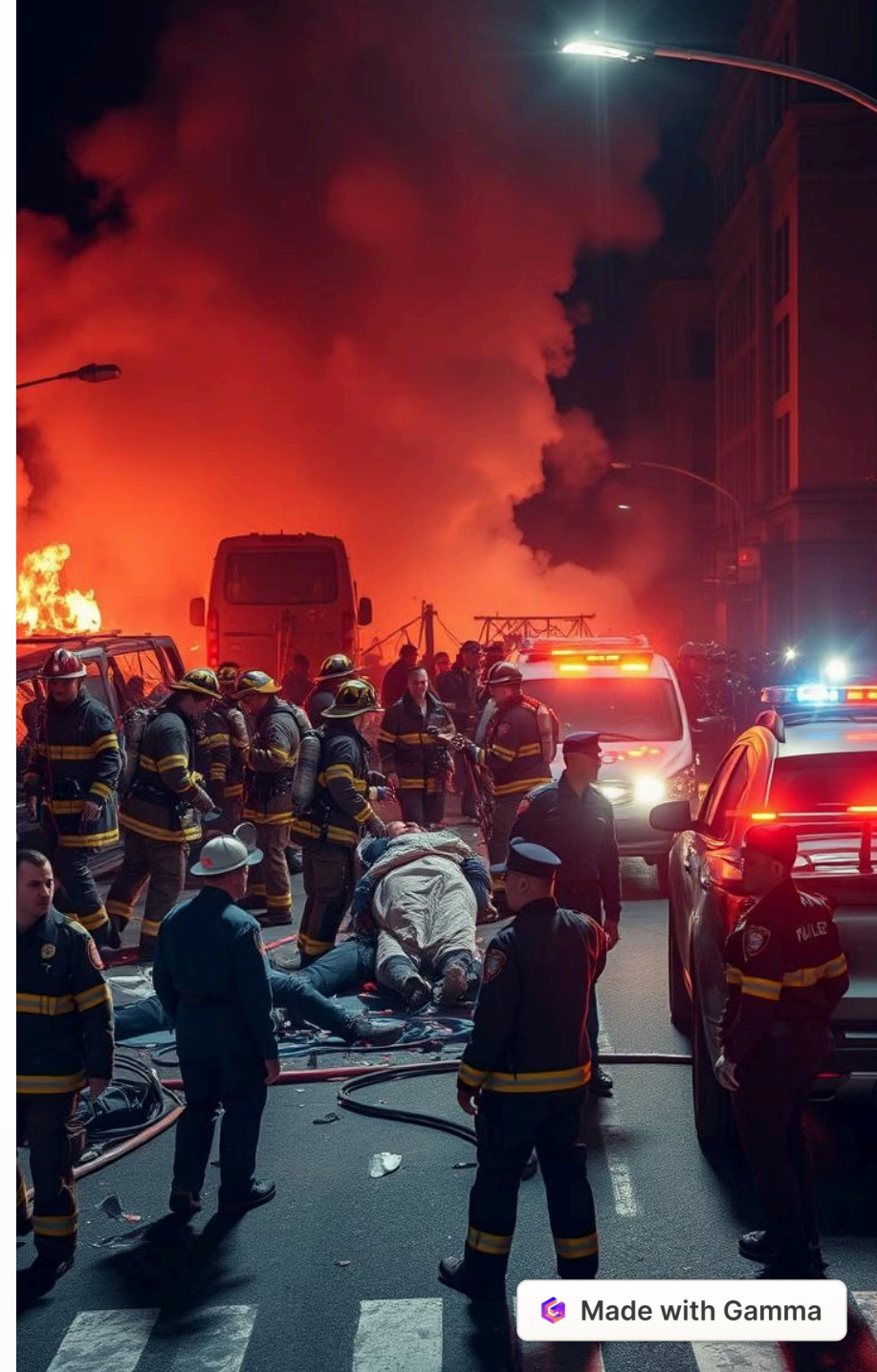
Rescue teams often lack a comprehensive understanding of the situation on the ground, making it difficult to coordinate effectively.

2 Communication - Breakdowns

Fragmented communication between different emergency services can lead to delays and inefficiencies in response.

3 Resource Constraints

Shortages of personnel, equipment, and logistics can hamper the ability to reach and assist those in need.



Our Solution :

User Centric :

Intuitive interface for user tracking, data tracking, and real-time status updates to ensure seamless user experience and engagement."

User-Friendly Design:

Simplifies complex operations with an intuitive interface, allowing users to easily navigate, track incidents, and monitor resource allocation in real-time

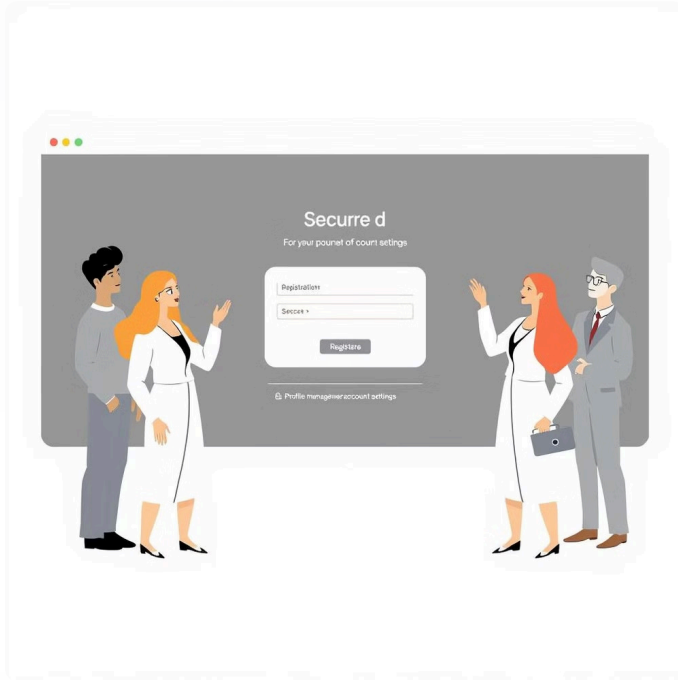
Improved Coordination

Improves coordination by providing real-time incident updates and resource allocation

Efficient Resource Allocation

Identifies available resources and allocates them optimally to incidents, minimizing response time and maximizing efficiency."

Key Features :



USER MANAGEMENT:

Integrates secure registration and profile management, allowing users to register their profiles. Ensures data privacy and secure authentication through JWT-based login for all users



Real-Time GPS Tracking :

Integrates GPS services for real-time tracking of incident locations and improving the response accuracy.



Resource Availability Monitoring

Monitors and displays the availability of resources in real-time, ensuring that responders can make informed decisions when allocating help

Key Features :



EMAIL SERVICE:

Seamlessly integrated **EmailJS** to enable real-time email notifications directly from the application. Eliminates the need for a backend server, enabling smooth communication through email services.



SECURITY:

Implemented **JWT (JSON Web Token)** for secure and stateless user authentication. Enables token-based authentication, eliminating the need for server-side session storage.

Technology stack :



ANGULAR



. NET 8.0



SQL SERVER



AZURE

MICROSERVICES :

1. AUTH API - JWT SECURITY .
2. VICTIM API - INCIDENT REPORTING & UPDATION .
3. RESOURCE AVAILABLE API - CONTAINS THE AVAILABLE RESOURCE DATABASE .
4. RESOURCE ALLOCATE API - REPONDER ALLOCATING THE RESOURCE
5. DATA AGGREGATOR SERVICE API - RETRIEVES DATA FROM TWO DIFFERENT MICROSERVICE AS ONE.
6. OCELOT-GATEWAY API - GATEWAY IMPLEMENTATION

PUBLIC API :

1. GPS SERVICE.
2. EMAIL NOTIFICATION SERVICE.

WorkFlow :



CONCLUSION



Project Complete

The **Respondify** system simplifies incident management by integrating real-time reporting, efficient resource allocation, and seamless communication between victims and responders. With features like GPS tracking, real-time updates, and a user-friendly interface, it ensures quick, coordinated responses to emergencies. By enhancing collaboration and providing real-time insights, **Respondify** improves decision-making, optimizes resource use, and leads to better outcomes during critical situations.

Thank You!!!!

