SJIF Impact Factor (2025): 8.688| ISI I.F. Value: 1.241| Journal DOI: 10.36713/epra2016 ISSN: 2455-7838(Online)
EPRA International Journal of Research and Development (IJRD)
Volume: 10 | Issue: 4 | April 2025 - Peer Reviewed Journal

RESCUE APP
MOBILE COMPUTING AND EMERGENCY SURVIVAL SERVICES

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ABSTRACT
Rescue Wings is a mission-driven platform developed to assist both victims and first responders during disaster situations by delivering accurate, real-time information. It uses mobile services to gather real-time data on users and the environment, and deploys service agents (servants) to offer active assistance. The system leverages intelligent services and public resources from government organizations. A bio-inspired algorithm has been developed to efficiently schedule service requests, minimizing response delays. The system has been successfully tested in disaster rescue drills.

I. INTRODUCTION

Natural and man-made disasters are posing an increasing threat to us. The first respondents must obtain as much specific information as much as possible about the epidemiology of the population in order to successfully pay special attention to vulnerable groups such as the elderly children and the disabled. It is also expected that disaster information and evacuation will be brought to the affected community in a timely and accurate manner, which can save lives and reduce serious damage. In the emergency, the correlation between intellectual services that were personalized by the support of the population was adopted for a long time, but interfered with the development, deployment, management and integration of the system.

OBJECTIVES

- To the primary goal of rescue operation is to save the lives of the people trapped in dangerous environment after a natural and man-made disaster.
- To provide a prompt response to minimize human suffering from injuries.

II. DESCRIPTION OF MODULES

1. Company Details
2. Public Detail
3. Worker Details

1) COMPANY DETAILS
Users can search for rescue companies by location (city, state, country) and request assistance during a disaster. Use Google Maps API to display company locations on a map. The user can find the company according to the disaster location. Company registration and login via Android interfaces.

2) PUBLIC DETAIL
Public users can register their accounts, post a request for support during disasters, and track updates. Enable account registration and login using Firebase Authentication or a similar method. Notifications for public users of salvation through push notifications.

3) WORKER DETAILS
If the request for salvation is sent, the task will be assigned to the staff and the progress/salvation status can be updated. Make sure your employees can enter the system with accounting data and see the tasks. Employees can update their work status directly through the application interface.

III. SOFTWARE SPECIFICATION

Android is an open source and Linux-based Operating System for mobile devices such as smartphones and tablet computers. Android was developed by the *Open Handset Alliance*, led by Google, and other companies. Android Studio is the official IDE for android application development. You can download the latest version of android studio from Android Studio 2.2 Download, If you are new to installing Android Studio on windows, you will find a file, which is named as *android-studio-bundle-143.3101438-windows.exe*.So just download and run on windows machine according to android studio.

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PROPOSED SYSTEM

The proposed system, Disaster Connect, addresses these limitations by providing a centralized mobile app for disaster communication. Through this, when providing a live update for natural disasters, it reports about the complaints and adjustments of volunteers and exchange's location exchanges in real time. The app allows users to register themselves and their relatives, share their location, and report concerns.

Additionally, Disaster Connect provides real-time updates on disaster situations, including weather forecasts, evacuation instructions, and shelter locations.

- Instant Query Submission: Users can immediately send rescue requests through the Android app, allowing for faster responses from companies.
- Worker Allocation: Admins and companies can allocate workers to tasks directly through the app, streamlining the process.
- Real-Time Updates: Public users and workers will receive instant updates and notifications via push notifications, ensuring constant communication and awareness.

LOGIN PAGE



The Login Page of the Rescue App serves as the secure entry point for users to access the system's emergency services. It is designed with usability, reliability, and security in mind to ensure that users especially during high-stress disaster situations can log in
quickly and safely. The login page acts as the secure gateway to access user-specific emergency tools and data in the app.

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HOME PAGE



The Home Page of the Rescue App serves as the central hub for users to access key features related to emergency survival and disaster assistance. Designed with simplicity and urgency in mind, the home screen provides quick access to critical services that may be required during a crisis.

DASHBOARD



The Dashboard of the Rescue App acts as the command centre for users and administrators, providing a real-time overview of all critical activities, requests, and updates related to emergency response and survival services. It is designed to present key information at a glance and allow for quick decision-making in disaster scenarios.

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TO EXIT



The Exit Page in the Rescue App plays a critical role in ensuring user safety and system continuity during emergencies. Designed within the context of mobile computing and emergency survival services, the Exit Page is not merely a termination screen, but a checkpoint to confirm that users are exiting consciously and are not in immediate danger. This Exit Page design aligns with the core principles of mobile computing in disaster scenarios: efficiency, user safety, connectivity, and data preservation. By ensuring users don't exit the app unaware of ongoing risks, the Rescue App supports informed decision-making and continuous safety monitoring even beyond active usage.

IV. CONCLUSION

Disaster connection system is a comprehensive and innovative platform designed to improve natural disasters and reactions, providing structural and effective methods that ensure timely support from disasters that pursue structural and effective support and trace places to save life. A major benefit of this platform is how it enhances the efficiency of providing support. The platform allows users to effortlessly report problems, send their location, and reach out to family members, friends, or volunteers for help. Real-time updates keep users up to date with critical information, including disaster alerts, weather conditions, evacuation routes, and shelter availability. Timely updates help clarify the situation and allow individuals to better prepare for emerging risks.

In conclusion, the Disaster Connect System represents a significant advancement in disaster management, leveraging modern technology to streamline communication, improve volunteer coordination, and provide life-saving information to those in need. It offers a comprehensive solution to disaster response, saving lives, reducing confusion, and ensuring that help reaches those who need it most in the shortest amount of time.

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