# Zimamoto Project

## Dashboard

Exactly! In the admin section, the dashboard serves as a central hub providing administrators with a concise overview of the smart fire extinguishing system's key information. Here are some specific components that could be included on the dashboard:

1. **System Status:** An indicator showing the overall health and status of the system, such as whether it's online, operational, or experiencing any issues.
2. **Key Metrics:** Essential metrics related to fire incidents and drone responses, such as the total number of reported fires, average response time, and successful fire extinguishments.
3. **Real-time Incident Updates:** A dynamic feed displaying the latest reported fire incidents in real-time, including their locations and timestamps.
4. **Drone Status:** Information on the status and availability of deployed drones, indicating whether they are active, on standby, or undergoing maintenance.
5. **Incident Prioritization:** An overview of ongoing fire incidents, categorized by priority levels, so administrators can identify high-priority incidents that require immediate attention.
6. **Incident Map:** An interactive map displaying the locations of reported fire incidents, drone positions, and other relevant data to visualize incident patterns and drone movements.
7. **Alerts and Notifications:** A section for monitoring and acknowledging system alerts and notifications, including those related to drone performance or critical system updates.
8. **Historical Data:** Access to historical data and trends, allowing administrators to analyze past incidents and system performance for insights and improvements.
9. **Communication Status:** Information on the communication network's stability and reliability to ensure seamless data exchange between the platform, drones, and users.
10. **Emergency Response Team Status:** If applicable, a section indicating the availability and readiness of external emergency response teams.

**User Management**

1. **User List:** Display a list of all registered users with relevant information such as usernames, email addresses, and user roles.
2. **Add User:** Allow administrators to add new users to the platform by entering their details, including username, email, and password.
3. **Edit User:** Enable administrators to edit user profiles, such as updating email addresses, passwords, or other user information.
4. **Delete User:** Allow administrators to delete user accounts from the platform when necessary.
5. **User Roles:** Implement a system of user roles and permissions, such as administrator, operator, or support staff, to manage different levels of access and actions within the platform.
6. **Assigning Roles:** Give administrators the ability to assign specific roles to users, granting them appropriate permissions based on their responsibilities and access requirements.
7. **View User Activity:** Provide administrators with a log of user activities and actions, showing details like login times and actions performed.
8. **User Authentication:** Ensure the User Management page has proper security measures for user authentication to prevent unauthorized access or modifications.
9. **Bulk Actions:** If applicable, allow administrators to perform bulk actions, like sending emails to all users or updating specific user attributes.
10. **User Search and Filters:** Implement search and filtering options to quickly find specific user accounts based on criteria like username, email, or user role.
11. **User Notifications:** Enable administrators to send notifications or alerts to specific users or user groups through the User Management page.
12. **User Support:** Integrate a feature to provide user support and assistance, allowing administrators to address user inquiries and issues efficiently.

In the "Data Analytics" section, you'll want to provide users with valuable insights and visualizations related to the performance of your fire safety platform, incident trends, and user activity. Here's what you might include:

1. \*\*Dashboard Overview:\*\*

- Start with an overview dashboard that provides a high-level snapshot of key metrics and indicators. This could include the total number of incidents, average response time, number of active users, etc.

2. \*\*Incident Trends:\*\*

- Visualize the frequency of fire incidents over a specific time period (e.g., daily, weekly, monthly).

- Show trends in incident types, locations, and severity.

3. \*\*Response Performance:\*\*

- Display response times for different types of incidents.

- Compare response times across different geographic areas.

4. \*\*User Activity:\*\*

- Showcase user engagement metrics, such as the number of logins, reports submitted, and alerts received.

- Highlight active users and areas with the highest user engagement.

5. \*\*Drone Utilization:\*\*

- Provide insights into how often drones are deployed for fire response.

- Show the average time it takes for a drone to reach an incident location.

6. \*\*Heat Maps:\*\*

- Use heat maps to visually represent incident density and distribution across geographical regions.

7. \*\*Performance Metrics:\*\*

- Display system performance metrics like uptime, downtime, and response times.

- Offer data on server load and any technical bottlenecks.

8. \*\*User Feedback Analysis:\*\*

- Incorporate sentiment analysis from user feedback to gauge user satisfaction and areas for improvement.

9. \*\*Customizable Filters:\*\*

- Allow users to customize the time period, locations, incident types, and other parameters for their analytics view.

10. \*\*Data Export and Sharing:\*\*

- Provide options for users to export raw data or share visualizations with others.

11. \*\*Real-Time Updates:\*\*

- Consider adding real-time updates to certain metrics, especially those related to incident tracking.

12. \*\*Interactivity:\*\*

- Make the analytics page interactive, allowing users to interact with charts, drill down for more details, and toggle between different views.

Remember that the goal of this section is to empower users with insights that can inform decision-making and improve the effectiveness of fire response efforts. The visualizations should be clear, easy to understand, and tailored to the needs of different user groups, such as administrators, operators, and analysts.

**Brigades**

Availability -> (Can be engaged, free)

Status -> (active, inactive, under maintenance)

**Admin, Staff activities**

* delete user
* delete brigade
* edit user
* edit brigade
* add user
* add brigade

**Operator**

* Assigned Tasks
* Your current location (coordinates and address)
* Update your status
* A popup for real-time fire reports giving options for reassign (in case the operator forgot to update their maintenance status) and accept
* Fire status (extinguished, responding, awaiting confirmation).