



IT 214 Database Management System Project

DBMS Project -> Warforge-DB (A Database for military)

Team members:

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Objective:

The objective of this military database project is to establish a strong and secure information management system that integrates key aspects of military operations. By centralising personnel, equipment, mission, and intelligence data, the database aims to enhance operational efficiency, facilitate informed decision-making, and ensure the readiness and effectiveness of our armed forces. The project focuses on maintaining data accuracy, supporting the mission-critical needs of the military organisation and contributing to national defence.

Application Users:

1. Vetted Administrators
2. Military Personnel
3. Commanding Officers
4. Intelligence Analysts
5. Logistics Personnel
6. Department of Defence

USE CASES:

1. Vetted Administrators:

Administrators will have special privileges to manage and update the database system.

Responsibilities include user management, security settings, system configuration, and overall database maintenance.

2. Military Personnel:

Military personnel will use the database to access and update their personal information, view assigned tasks, and check mission details.

They will use the system to ensure accurate and up-to-date records, contributing to mission readiness.

3. Commanding Officers:

Commanding officers will utilise the database to oversee and manage respective group information, monitor personnel assignments, and track mission progress.

Responsibilities include making strategic decisions based on real-time data and ensuring unit readiness.

4. Intelligence Analysts:

Intelligence analysts will access the database to input, analyse respective category data, and retrieve intelligence data.

They will utilise the system to support decision-making by providing timely and accurate intelligence information.

5. Logistics Personnel:

Logistics personnel will use the database to manage and track equipment inventory, ensuring availability and readiness for missions.

Responsibilities include updating equipment records, monitoring maintenance schedules, and facilitating logistical support.

6. Department of Defence

Utilise the database for strategic decision-making, intelligence operations, and joint task force coordination, budget allocation.

Content Management:

1. **Personnel Information** - Store data for each military personnel id, including rank, full name, unit id, date of birth, unit assignment, and assignment status, service status, gender.
2. **Unit Details** - Maintain information about military units id, including unit name, commanding officer.
3. **Equipment Inventory** - Track details of military equipment, such as equipment name and id, quantity, unit id, status for logistical support.
4. **Mission Data** - Store mission-related information, including mission name and id, start date, end date, and unit assignment, to facilitate mission planning and execution.
5. **Intelligence Records** - Capture and manage intelligence data, including sources, classification levels to support informed decision-making.

6. **Training Records** - Manage training information for military personnel, including training programs attended, completion dates, and certification details.
7. **Logistical Information** - Store data related to logistics, such as supply chain details, transportation resources, and maintenance schedules for equipment.

Tentative List of Queries:

1. Get details of a specific military personnel.
2. Display the equipment inventory status and details.
3. List of who can be accommodated in a particular mission and who will guide it.
4. Retrieve upcoming missions scheduled including details like mission code, period, operation area, battalion, commander, etc.
5. List all military personnels who were martyred in any mission.

