**Factory Content Management System Overview and Features**

**Project Overview:**

The **Factory Content Management System (FCMS)** is a comprehensive solution designed to streamline the management of factory operations, improve efficiency, and ensure seamless communication and data flow across multiple displays within the factory. This software is locally hosted on a server, allowing multiple worker displays to access and interact with real-time data, documents, and work instructions.

**Project Aim:**

The goal of this system is to provide a robust, flexible, and real-time content management solution for the factory floor. It ensures that all workers, supervisors, and managers have access to the most up-to-date information and instructions, which helps in improving productivity, reducing errors, and ensuring smooth operation.

**Key benefits to the client:**

* **Real-time Updates:** All displays receive content updates from the server instantly.
* **Multilingual Support:** Content is available in multiple languages to cater to a diverse workforce.
* **Efficient Documentation Management:** Centralized management of documents and work instructions, with version control.
* **Improved Communication:** Notifications, alerts, and real-time data flow allow for quick responses to critical issues.

**Features and Screens Overview:**

1. **Work Instructions Screen**
   * **Key Features:**
     + Supports multi-model instructions.
     + Multilingual content support.
     + Displays various formats (JPEG, MP4, PDF).
   * **Purpose:** To provide clear work instructions to workers, using different formats to ensure easy understanding.
2. **One Point Lesson Screen**
   * **Key Features:**
     + Multilingual support.
     + Standard format library and customized format support.
     + Documentation control for managing versions.
   * **Purpose:** This screen provides concise learning materials for workers, ensuring they can follow standardized processes and stay updated on training content.
3. **Documents Screen**
   * **Key Features:**
     + Multilingual support.
     + Search and find tool for easy document location.
     + Documentation control for version management.
   * **Purpose:** The Documents screen provides easy access to a variety of factory-related documents, with a powerful search tool to find specific information quickly.
4. **Do & Don’t Screen**
   * **Key Features:**
     + Multilingual support.
     + Standard format library and custom format support.
   * **Purpose:** To communicate essential safety guidelines and operational dos and don’ts for workers.
5. **Training Screen**
   * **Key Features:**
     + Configurable sections for organizing training content.
     + Section-wise storage for easy management of training materials.
     + Customized format support.
   * **Purpose:** This screen helps in organizing and managing training programs, ensuring all workers are trained according to their needs and capabilities.
6. **Check Sheet Screen**
   * **Key Features:**
     + Standard and customized check sheet templates.
     + Multilingual support with image display.
     + Data storage and query-based report downloads.
     + Event-based notifications.
   * **Purpose:** To enable workers to fill out check sheets for quality control, maintenance, and other tasks. The system also provides reporting capabilities to track performance.
7. **Skill Matrix Screen**
   * **Key Features:**
     + Customized formats for displaying skills.
     + Notification on due dates for training and assessments.
   * **Purpose:** To monitor and manage the skills of workers, ensuring that their competencies are up-to-date and any necessary training is completed on time.
8. **Drawing Screen**
   * **Key Features:**
     + Support for multiple formats (SVG, PNG, PDF).
     + Zoom in/out and pan functionality for detailed views.
   * **Purpose:** To display factory floor drawings, technical schematics, or blueprints in various formats, with easy-to-use zoom and pan features for better understanding.
9. **Andon Screen**
   * **Key Features:**
     + Real-time flow of information.
     + Supports multiple communication methods (visual, SMS, WhatsApp, email).
     + Escalation matrix for handling issues.
     + Query-based reports.
   * **Purpose:** To monitor and display real-time issues on the factory floor, alerting supervisors or managers via various communication channels, with the ability to escalate issues when necessary.
10. **Quality Screen**
    * **Key Features:**
      + Digital SPC (Statistical Process Control) graphs for quality monitoring.
      + Data retention and download functionality.
      + Event-based alarms and notifications.
    * **Purpose:** To track quality metrics, identify trends, and ensure that the production process remains within defined limits, with real-time alarms for out-of-control conditions.
11. **Production Management System (PMS) Screen**
    * **Key Features:**
      + Real-time untampered information.
      + Production scheduling and monitoring.
      + Graphical presentation of data.
      + Data retention and download.
    * **Purpose:** To monitor and manage the production process in real-time, providing scheduling tools and visual representation of production metrics.

**Conclusion:**

The Factory Content Management System will provide the client with a **powerful, integrated platform** that connects all workers, supervisors, and managers to real-time, actionable data. By utilizing a **centralized server**, the system ensures consistent, up-to-date content delivery to **multiple worker displays**, improving overall factory efficiency, communication, and operational control.

This system will significantly reduce manual errors, provide better training and instructions, and help in maintaining high-quality production standards, all while enabling efficient management through the server’s real-time control and updates.