

## Management - Project Documentation

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### ## Introduction <a name="introduction"></a>

**\*\*Management\*\*** is an all-in-one project management application tailored for the construction industry. It provides a comprehensive suite of features designed to streamline the management of construction projects, including report generation, live information tracking, engineering and procurement reports, areas of concern identification, claims management, Gantt chart timelines, profit and progress tracking, and an integrated HR system.

### ## Features Overview <a name="features-overview"></a>

#### ### Monthly, Weekly, and Daily Reports <a name="reports"></a>

Generate detailed reports on a monthly, weekly, and daily basis to keep track of project progress, resource allocation, and performance metrics. These reports are essential for maintaining transparency and accountability across all levels of the project.

#### ### Live From-Site Information <a name="live-from-site"></a>

Access real-time information from the construction site, enabling you to make informed decisions quickly. This feature ensures that you have the most up-to-date data regarding site activities, resource usage, and potential issues.

#### Engineering and Procurement Reports <a name="engineering-procurement-reports"></a>  
Manage engineering and procurement processes efficiently with specialized reports that provide insights into design progress, material procurement, and logistics. These reports help in optimizing the supply chain and ensuring timely delivery of materials.

#### Areas of Concern <a name="areas-of-concern"></a>  
Identify and address areas of concern promptly to prevent project delays and cost overruns. This feature allows you to flag potential issues, assign responsibilities, and track resolution progress.

#### Claims Management <a name="claims-management"></a>  
Handle construction claims effectively by tracking claims, documenting evidence, and managing resolutions. This feature ensures that all claims are processed systematically and fairly.

#### Gantt Chart Timeline <a name="gantt-chart-timeline"></a>  
Visualize project schedules and track progress using interactive Gantt charts. This feature helps in planning, scheduling, and monitoring project activities to ensure timely completion.

#### General Information <a name="general-information"></a>  
Access general information about the project, including financial metrics like profit and loss, and overall progress. This feature provides a high-level overview of the project's health and performance.

#### HR System <a name="hr-system"></a>  
Manage human resources effectively with an integrated HR system that handles employee records, attendance, payroll, and performance evaluations. This feature ensures that your workforce is managed efficiently and complies with regulatory requirements.

## User Guide <a name="user-guide"></a>

#### Getting Started <a name="getting-started"></a>

1. **Installation**: Follow the [installation instructions](#installation) to set up the application.
2. **Login**: Use your credentials to log in to the system.
3. **Dashboard**: Upon logging in, you will be taken to the dashboard where you can access all features.

#### Navigating the Dashboard <a name="navigating-the-dashboard"></a>

The dashboard provides an overview of the project's status and quick access to all major features:

- **Reports**: Access and generate reports.
- **Live Information**: View real-time data from the site.
- **Gantt Chart**: Visualize the project timeline.
- **HR System**: Manage human resources.

#### ### Generating Reports <a name="generating-reports"></a>

1. Navigate to the **Reports** section.
2. Select the type of report (monthly, weekly, daily).
3. Specify the parameters and date range.
4. Click **Generate** to produce the report.

#### ### Managing Live Information <a name="managing-live-information"></a>

1. Navigate to the **Live Information** section.
2. View real-time data feeds from the construction site.
3. Use filters to sort and analyze the data.

#### ### Using the Gantt Chart <a name="using-the-gantt-chart"></a>

1. Navigate to the **Gantt Chart** section.
2. Add tasks, assign resources, and set deadlines.
3. Monitor progress and adjust schedules as necessary.

#### ### Handling Claims <a name="handling-claims"></a>

1. Navigate to the **Claims** section.
2. Log new claims with detailed descriptions and supporting documents.
3. Track the status and resolution of existing claims.

#### ### Accessing HR Features <a name="accessing-hr-features"></a>

1. Navigate to the **HR** section.
2. Manage employee records, attendance, payroll, and performance reviews.
3. Ensure compliance with regulatory requirements.

#### ## Technical Specifications <a name="technical-specifications"></a>

- **Platform**: Web-based application
- **Supported Browsers**: Chrome, Firefox, Safari, Edge
- **Backend**: Node.js, Express
- **Frontend**: React, Redux
- **Database**: PostgreSQL
- **Real-time Data**: WebSockets
- **Reports**: PDF generation with dynamic data binding
- **Gantt Chart**: Interactive JavaScript library

#### ## Installation <a name="installation"></a>

1. **Prerequisites**:
  - Node.js and npm
  - PostgreSQL database
2. **Steps**:
  1. Clone the repository: `git clone https://github.com/your-repo/management.git`
  2. Install dependencies: `npm install`

3. Configure the database: Update the `config/database.js` file with your database credentials.

4. Run migrations: `npx sequelize-cli db:migrate`

5. Start the application: `npm start`

6. Access the application at `http://localhost:3000`

## Support <a name="support"></a>

For support, please contact our team at [support@management.com](mailto:support@management.com) or visit our [support page](<http://management.com/support>). You can also refer to the FAQ section on our website for quick answers to common questions.