Buildmazing - Construction Management System

Overview

Buildmazing is a desktop application developed to streamline the management processes of Jayalal Constructions. It addresses the inefficiencies and limitations of the manual record-keeping system, enabling users to manage employees, clients, inventory, suppliers, reports, projects, and finances efficiently.

Features

- **Employee Management**: Maintain records of employee attendance, salaries, and leaves.
- **Client Management**: Manage client information and project details.
- **Inventory Management**: Track inventory details including raw materials, machinery, and payments.
- **Supplier Management**: Manage supplier information and supplies.
- **Report Generation**: Generate various reports such as attendance, payment, inventory, income, and expense reports on a monthly basis or as needed.
- **Project Management**: Keep track of project details and manage ongoing projects.
- **User-Friendly Interface**: Easy-to-use interfaces designed for efficient navigation and data management.

System Requirements

Hardware

- Intel Core i5 or better
- 4GB of RAM
- A stable internet connection
- Keyboard and mouse/trackpad

Software

- Windows 7/8/10 64-bit
- MySQL Server
- Apache NetBeans
- Reporting tool: Jasper Reports

Installation

1. Install MySQL Server on your computer.

2. Set up the Apache NetBeans development environment.
3. Configure Jasper Reports for report generation.
4. Download and install Buildmazing from the provided repository.
5. Follow the setup instructions to configure the database and initialize the application.

Usage

1. Launch the Buildmazing application.
2. Navigate through the main menu to access different management modules (Employees, Clients, Inventory, Suppliers, Projects).
3. Use the forms provided to add, update, or delete records.
4. Generate and view reports by selecting the desired report type from the reports module.
5. Manage ongoing projects by accessing the project management section.

Running the Application

1. Ensure you have Java Runtime Environment (JRE) installed on your system.
2. Open a command prompt or terminal window.
3. Navigate to the directory where the `BuildmazingApp-1.0-SNAPSHOT.jar` file is located.
4. Run the application using the following command:

```sh
Copy code
java -jar BuildmazingApp-1.0-SNAPSHOT.jar
```

Contributing

If you wish to contribute to the development of Buildmazing, please follow these steps:

1. Fork the repository.
2. Create a new branch (`git checkout -b feature/YourFeature`).
3. Commit your changes (`git commit -m 'Add some feature'`).
4. Push to the branch (`git push origin feature/YourFeature`).
5. Open a pull request.

Contact

For any questions or support, please contact the developing team of BUILDMAZING:

Group Members

Name	Role	Responsibilities

K.I.N.T Silva	Project Manager & Infrastructure	Oversee project activities, supervise solution integration into existing infrastructure
H.W. Wageesha Hewawitharana	UI Engineer / QA	Design and develop the front-end of the application Testing and Project Designing
L.A.N Dinushika	Database Admin	Database design and Implementations Coding Assistance
R.S Ramanayake	Report Handler	Manage reports and Project Designing
H.K.S Nonis	Tech Lead and Architect	Design Project, Code management