

Construction Inventory Management System

Software Development Notes

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Current Scope

Key Design Points

- Scalable
- Cost-effective
- Mobile
- Simple to use
- Product information and organization
- Info on server vs app

Database Structure

- Simple 1NF relation schema
- EER model
- Data entry needs to be as simple as possible
 - Data tuple: {pName, pManufacturer, pQuantity}
- Functionality (front-end)
 - Add, Search, Delete

Interface Design

- Java user interface
 - Front-end and middle-tier development
 - Easy to work in Android Studio
- Desktop client?
- Testing to be done with random test cases
 - No junit as of now

Development Process

1. Schema/database creation
2. Front-end development
3. Back-end development
4. Server migration

Up Next

- Adding a label/location system using key-value pair approach
- Adding location labels within warehouse to easily update item movement
 - i.e., to update item location, input location label then item label
 - Removes that item from the list of items under the previous location label
- Comprehensive design plan report