Introduction:

A financial system or management system is a system which role is to organize all company/shop day to day actions and maintain it for further retrieval and review.

Structure of financial systems:

A financial system consists of some Basic elements:

1. Accounting tree
   1. Accounting tree contains all system accounts and key nodes of cash flow, an account is like a wallet , a safe , sales account, customer , supplier or bank account
   2. Accounting tree could be built dynamic based on user needs to get low level details about cash flow in the company
2. Daily Transactions
   1. The actual day to day transaction from one account to another in the system , i.e. a customer buy an item , so a transaction from the sales to the customer account should be issued
3. Helper records
   1. Helper records represent non cash data like customer information or project description data
4. Reports
   1. All reports and formatted data to be requested by the user
5. Extras
   1. Any extra features like , file uploading or notifications

Helper Record list:

1. Customers
2. Suppliers
3. Invoices
4. Stock
5. Stock Transactions
6. Employee
7. Payroll
8. Installments
9. Projects
10. Units
11. Contracts

Extras Records:

1. Notifications
2. Messages
3. System users

Transaction List and effect:  
All transactions in the system with associated effect in accounting and Helper records.

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| **Create Supplier** | |
| **Financial** | 1. Create a new account for the supplier under the suppliers node in the accounting tree |
| **Helper** | 1. Create a new supplier in the supplier table |

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| **Edit supplier** | |
| **Financial** | 1. Update supplier node in the accounting tree with the new supplier name using the supplier ACCNumber field |
| **Helper** | 1. Update supplier data in the helper table |

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| **Supplier invoice (stock items)** | |
| **Financial** | 1. New entry from purchase with invoice total with note as purchase goods from Supplier 1 in date Date1 2. New entry for each supplier line with line total in account of the product with detail of purchase from Supplier1 in Date1 3. New entry for the supplier Debit with the invoice total |
| **Helper** | 1. Update item stock and increase it with the new amount for each line 2. Add a transaction for each line with the new amount 3. All stock transaction should use the stock ID assigned in the invoice |

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| **Remove invoice** | |
| **Financial** | 1. Remove from journal by DocID column |
| **Helper** | 1. For each line reverse the amount in the stock table by the location id 2. Remove from stock transaction by DocID |

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| **Edit Invoice** | |
| **Financial** | Delete invoice and create it again |
| **Helper** |  |

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| **Remove Tree Node** | |
| **Financial** | 1. Update all journal entry to its parent node 2. Delete node |
| **Helper** |  |

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| **Journal Transaction / edit or remove** | |
| **Financial** | 1. Direct transaction no back effect |
| **Helper** |  |

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| **Create Project** | |
| **Financial** | 1. Create node under pending projects |
| **Helper** | 1. Create project in project records 2. For each product , create a new stock entry for the project with qty 0 |

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| **Create Category** | |
| **Financial** | Create a node under stock |
| **Helper** | Create it in category helper |

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| **Create Item** | |
| **Financial** | 1. Create a node under category in the account tree |
| **Helper** | 1. Create it in product helper 2. Create a record in the stock for each project with 0 Qty |

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| **Edit project** | |
| **Financial** | Edit the project name in the tree using AccID in the project object |
| **Helper** |  |

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| **Work order** | |
| **Financial** | 1. Add a record for the project or unit or any node with the line total for each line |
| **Helper** | 1. Update stock qty for each line with the amount in the lint 2. Add a stock transaction for the location with the qty for each line |

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| **Create Supplier** | |
| **Financial** |  |
| **Helper** |  |

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| **Create Supplier** | |
| **Financial** |  |
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| **Create Supplier** | |
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