

Name

No.

| Function No | Function name   | Priority | Target user                        | How to use   | User benefit   |
|-------------|---|----------|------------------------------------|--|--|
| 1           | <b>Intelligent Analysis</b> <ol style="list-style-type: none"> <li>predicate the department-wide sales for each store.</li> <li>make inventory suggestions for department-wide sales for each store.</li> <li>business health summary</li> <li>model evolution automatically</li> </ol> | High     | Superior manager and store manager | <p>In the background, the training task always reads historical data from database and keeps updating the model, which is automatically done and invisible to users.</p> <ol style="list-style-type: none"> <li>Any time user needs to check the sales trend, just login the system and go into the intelligent analysis module, then the predictions sales in recent week, month will show up immediately.</li> <li>Moreover, if the user wants to know the specific sales prediction of different department and store, this system also provides the recommended function for it.</li> <li>Any time user wants to prepare for the coming holiday, he just chooses the service, then the software can automatically calculate the needs and supply according to historical data.</li> <li>It provides suggestions for modifying inventory and adjusting goods prices according to the parameters user inputs.</li> </ol> | <ol style="list-style-type: none"> <li>This module makes the historical data alive, which could replace experienced manager to some extent.</li> <li>This module can take a great number of factors and data into consideration. In regard, it is more powerful than human being.</li> <li>Customers will have a better understanding of sales data both in the past and future, which will help making a more reasonable strategy.</li> </ol> |
| 2           | <b>Multiple Deployment Options:</b> <ol style="list-style-type: none"> <li>cloud deployment</li> <li>local deployment</li> <li>hybrid deployment</li> </ol>   | High     | Superior manager                   | <p>Different supermarkets have multiple choices to deploy their software system and database:</p> <ol style="list-style-type: none"> <li>For cloud deployment, small sized chain supermarkets don't need to buy their own servers. The software and dataset are configured perfectly for them in the cloud. They just need to cover the small amount of service fee.</li> <li>For local deployment, huge chain supermarkets, like Walmart, Carrefour, et cetera, prefer to maintain their database locally for business secret. They have their own hardware and IT department. For these potential customers, they just install the management software on their servers, and then all works could be done automatically.</li> </ol>  | <p>This software supports different types deployment options, which can expand the potential market especially for small and medium sized supermarkets.</p> <ol style="list-style-type: none"> <li>cloud deployment</li> </ol> <p>This type deployment solution has lowest expense, while has the relatively high performance. No workstation need locally. This solution make full use of powerful calculation ability and share</p>          |

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|      |  |        |                         | <p>3. For hybrid deployment, the medium-sized chain supermarket or new customer may doubt the usability of the management software. The third option is prepared for these potential customers. Their just need to deploy our system to their local devices for storing the important data, while uploading part of the core data to cloud for training the model, by this way, they can make full use of the powerful computational ability.</p> | <p>dataset in cloud, which mak train process faster ; economically.</p> <p>2. local deployment<br/>This solution has the high security. Besides, they can uti their available hardware ; platform.</p> <p>3. hybrid deployment<br/>This kind of solution gi customers more flexibility balance the data privacy and running cost.</p> |
| 3    | <b>Authority Management</b>  | Middle | Manager and Salesperson | <p>This function gives a project manager the ability to authorize different employees with correspondent rights on behalf of the organization.</p> <p>1. All employees should be authorized according to his (her) position, role and function.</p> <p>2. The employee's authorization can be changed with the permission of his (her) administrator.</p>   | <p>Easy to define roles, functio and maintaining independence moreover, it's also vital security management supermarkets.</p>   |
| 6    | <b>Financial Accounting</b><br>1. manage fixed-assets<br>2. generate user-defined worksheet<br>3. examine financial data in real time<br>4. budget management<br>5. ordering processing<br>6. purchase and order | Middle | Manager and salesperson | <p>1. Salespersons can input new income and expense into database, and can also modify</p> <p>2. Manager can look up financial data whenever he (she) login in the system.</p> <p>3. Select the target sheets on screen and the digital page can be generated automatically. The hard copy can also be generated easier with a printer connected.</p>   | <p>1. Simplify operation ; improve working efficiency</p> <p>2. Multi-platform make finan accounting with more ; more convenience.</p>  |

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| 7    | <b>Human Resourcing</b><br>1. wage, welfare, insurance, bonuses, allowances management<br>2. online salary query<br>3. attendance management | Middle | HR or store manager | 1. This system provides a human resourcing page for managing salary calculation and looking up.<br>2. Common employees can look up salary and historical salary info by clicking the income page of human resourcing module.  | 1. Support online online que customers can use it anytime and anywhere.<br>2. Customization of salary calculation.  |
| 9    | <b>Customer Relationship Management</b><br>1. user account management<br>2. promotion information management<br>3. notifications push        | Middle | Sales Manager       | This system provides a module to manage customer relationship. This module not only can manage user accounts, but also can detect the active and negative customers automatically according to their shopping records. Moreover, once new promotion management come into being, sales manager can easily push notifications to certain user group by different ways with one-click action.  | 1. Raise user faithfulness spend with agglutinant.<br>2. Make it easy to analyze result of promotion.<br>3. Deliver ads more precise and improve the customer experience. |
| 5    | <b>Easy Migration</b><br>1. support different mainstream systems<br>2. APIs support migration<br>3. data verification                        | High   | IT Department       | 1. To achieve an effective data migration procedure, data on the old system is mapped to the new system utilizing a design for data extraction and data loading.<br>2. Application programming interfaces (APIs) have been supplied to protect the integrity of the data users have to handle.<br>3. Results are subjected to data verification to determine whether data was accurately translated, is complete, and supports processes in the new system. | This function makes migration old data secure and reliable. the same time, it allows application to be sold to the widest possible chain supermarket as a result.         |

### Notice:

1. You can use Microsoft Word, OpenOffice Writer, or some other softwares.\*1
2. When you submit this document, please convert it to **PDF format**.
3. You can add other columns or arrange the sheet as you like to make it easier to read but please keep the table headers of sample format.

\*1 Since Microsoft Word provides spelling and grammar checker, Microsoft Word is recommended.