## 

## Software Design Document.

Version 0.5

**Son Dang Huy**

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1. **Introduction.**
   1. **Purpose.**
   2. **Reader.**
   3. **Document overview.**
2. **Project overview.**
   1. **Project description.**

* **Purpose.**
* **Duration.**
* **Output.**
  1. **Project team.**
  2. **Stakeholders.**
  3. **Scope and vision.**

1. **Architecture the driver.**
   1. **Key requirement.**
   2. **Business constraints.**
   3. **Technical constraints.**
   4. **Quality attributes.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Quality** | **Quality ID** | **Concern** | **Attribute** |
| Performance | QA.01 | Update customer’s score immediately | When the score are used, the number of score used is immediately subtracted from the number of score accrued by the member. |
| The synchronization between the branches and center. | Moreover, in addition to the sales operation, the system is also capable of performing the statistical analysis on the sales records of all stores in near real-time manner. |
| Availability | QA.02 | No down time | No down time when connection with head server have been cut. |
| No down time | No down time when connection of POS terminal with store server have been cut or one database has been broken. Switch to use second database to ensure transactions will be continued. |

1. **System architect.**

## System Context

Based on Team assignment document - provided information about POS-System, the implemented Smart Market POS system will provide a numbers of function that help head manager control, monitor and report status of store system efficiently.

The following table will describes roles and responsibility of system.

* 1. **System users.**

|  |  |
| --- | --- |
| **Role** | **Responsibility** |
|  |  |
|  |  |
|  |  |

## Overview.

1. **Detail architect design.**
   1. **Allocation view.**
      1. **Primary presentation.**
      2. **Element catalogue.**
   2. **Components and connections view.**
      1. **Primary presentation.**
      2. **Element catalogue.**
   3. **Module view.**
      1. **Primary presentation.**
      2. **Element catalogue.**
   4. **Mapping.**