

OPERATING LEASE SUPPORT SYSTEM DEVELOPMENT

FOR



Functional Specification A.4 Master Data Module

Revision 1.0

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Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 2 of 32

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By signing this document I acknowledge I have read the document and give the Project Management Team approval to proceed.

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Functional Specification: A.4 Master Data Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 3 of 32

TABLE OF CONTENTS

DOCUMENT CONTROL	2
REVISION HISTORY	2
DISTRIBUTION LIST	2
DOCUMENT APPROVAL	2
1 INTRODUCTION.....	4
1.1 PURPOSE.....	4
1.2 SCOPE.....	4
1.3 ACRONYMS AND ABBREVIATIONS	5
1.4 REFERENCES	5
2 DETAIL SPECIFICATION	6
2.1 CUSTOMER INFORMATION	6
2.1.1 Use case	6
2.1.2 Operations and scenarios	6
2.1.3 Status management and roles.....	8
2.1.4 Sitemap design.....	9
2.1.5 Screen design	9
2.1.5.1 Customer information	9
2.1.5.2 Add new customer record	10
2.1.5.3 Edit customer record	11
2.1.5.4 View detail customer record	12
2.1.6 Screen features	13
2.1.7 Data structure	13
2.2 SUPPLIER INFORMATION	15
2.2.1 Use case	15
2.2.2 Operations and scenarios	15
2.2.3 Status management and roles.....	16
2.2.4 Sitemap design.....	18
2.2.5 Screen design	18
2.2.5.1 Supplier information	18
2.2.5.2 Add new supplier record.....	19
2.2.5.3 Edit supplier record	20
2.2.5.4 View detail supplier record.....	21
2.2.6 Screen features	22
2.2.7 Data structure	22
2.3 PRODUCT INFORMATION.....	23
2.3.1 Use case	23
2.3.2 Operations and scenarios	23
2.3.3 Status management and roles.....	24
2.3.4 Sitemap design.....	26
2.3.5 Screen design	26
2.3.5.1 Product information	26
2.3.5.2 Add new product record.....	27
2.3.5.3 Edit product record.....	28
2.3.5.4 View detail product record.....	29
2.3.6 Screen features	30
2.3.7 Data structure	30
APPENDIX	32

Functional Specification: A.4 Master Data Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 4 of 32

1 Introduction

1.1 Purpose

Functional specification is to explain some of the following:

- 1) Describe who uses your application or system,
- 2) Describe the order in which steps or events or on the scenario are performed,
- 3) Show user interface design, and
- 4) What kind of data that will be maintained by functions.

1.2 Scope

Master data module explained about how to maintain master data which is utilized in the system. On this module there's no integration with another system (such like ACA and MFAPPL). This modules deal in the "to-be design" for developing the new system.

To keep the accuracy of entire design of the system we are using modeling approach for design and analysis. **To define a model of functions we will determine use cases. In the use case, it can summarize who uses your application or system, and what they can do with it.**

Within a use case we can determine which use cases are supported by application. We can create use case diagram, activity diagram, use case scenario, data structure, and interface design.

A data structure can specified what kind information that will be required for the system. Data structure is represented database design of the system. A user interface design can imagine the user about the system as visual. User interface is designed based on prototype which already created. And, based on these things, we will develop the system.

The following is functionality of master data module:

- ✓ Customer information
 - a. Add new customer record.
To add new customer record by fill out add new form.
 - b. Edit customer record.
To edit customer record by fill out edit form. For submit a customer record.
 - c. Submit customer record.
To submit a customer records by click event.
 - d. Filter and sort customer record
To perform data filter and data sort of customer records.
 - e. View detail customer record
To inspect a detail customer records by opens a detail form of customer.
 - f. Changes status of customer record
To update status of customer record by click events.
- ✓ Supplier information
 - a. Add new supplier record.

Functional Specification: A.4 Master Data Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 5 of 32

To add new supplier record by fill out add new form.

b. Edit supplier record.

To edit supplier record by fill out edit form. For submit a supplier record.

c. Submit supplier record.

To submit a supplier records by click event.

d. Filter and sort supplier record

To perform data filter and data sort of supplier records.

e. View detail supplier record

To inspect a detail supplier records by opens a detail form of supplier.

f. Changes status of supplier record

To update status of customer record by click events.

✓ Product information

a. Add new product record.

To add new product record by fill out add new form.

b. Edit product record.

To edit product record by fill out edit form. For submit a product record.

c. Submit product record.

To submit a product records by click event.

d. Filter and sort product record

To perform data filter and data sort of product records.

e. View detail product record

To inspect a detail product records by opens a detail form of product.

f. Changes status of customer record

To update status of product record by click events.

1.3 Acronyms and abbreviations

- ACA : Automatic Credit Approval System
- MFAPPL : Multi Finance Application

1.4 References

This functional scope is refers to “to be design” in the section A.4.Maintain master data.

Functional Specification: A.4 Master Data Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 6 of 32

2 Detail Specification

2.1 Customer information

2.1.1 Use case

The figure below is summarizing who uses features of function, and what they can do with it.

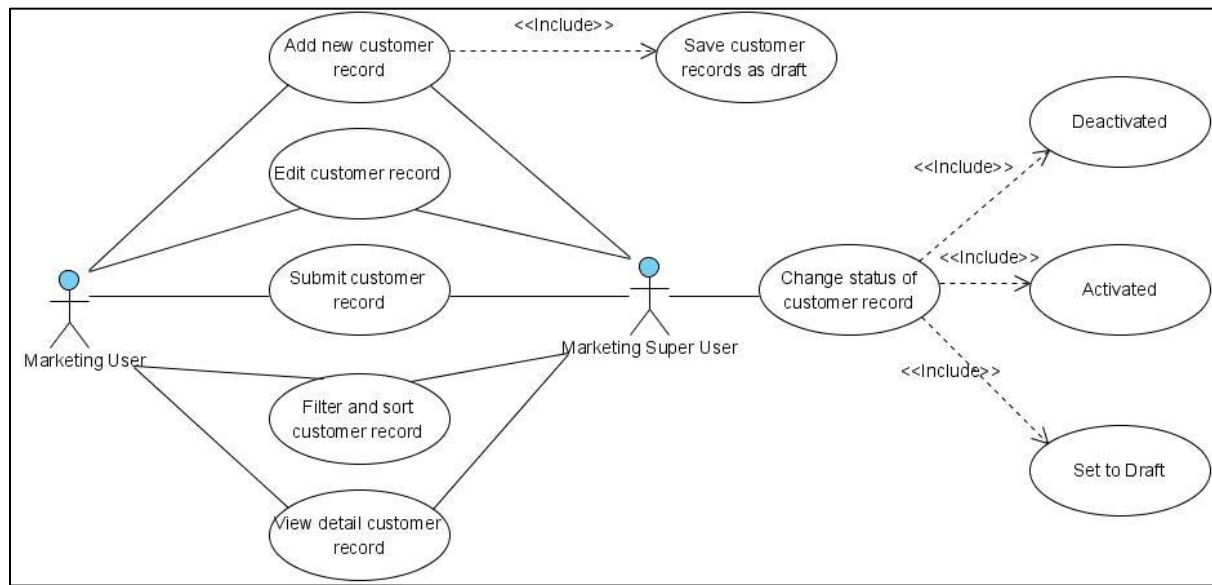


Figure 1 – Use case diagram of Customer Information

2.1.2 Operations and scenarios

The figure below is describing operations or steps performed in a function interact with people (flow of work between users and the system).

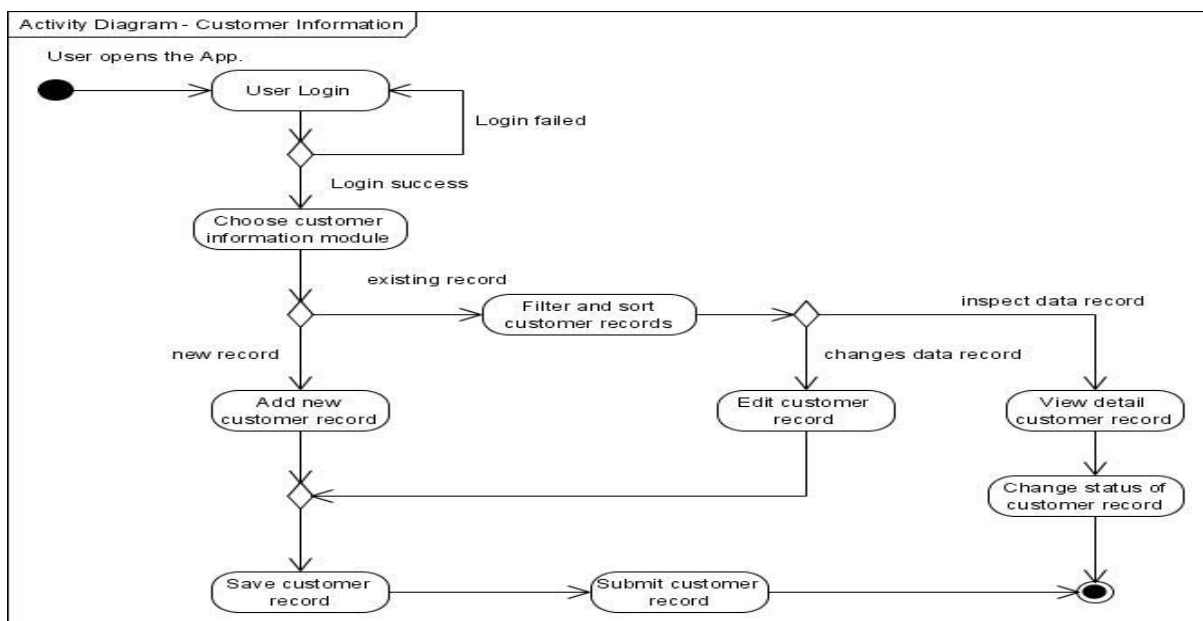


Figure 2 – Activity diagram of Customer Information

Functional Specification: A.4 Master Data Module

Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 7 of 32

No.	Steps/ Operations	Actor/ People	Scenario
1	Login	Marketing user, Marketing super user	<ul style="list-style-type: none"> Actor fills out login form by inputting user name and password. Actor clicks [sign in] button. System will check the account of user; if actor account is already registered user will enter into the system. If doesn't user can return the step.
2.	Choose customer information module	Marketing user, Marketing super user	<ul style="list-style-type: none"> After login, actor can choose customer information module on the menu of system. After that, screen of customer information will be opens. After customer screen opens, customer list will be shown and customer data existing will be displayed.
3.	Add new customer	Marketing user, Marketing super user	<ul style="list-style-type: none"> If customer information screen opens, actor can click [add] button to add new records of customer, and after that add new customer screen will be opens. Upon add new customer screen, actor fill out the fields. The mandatory fields cannot be blanks.
4.	Save customer record	Marketing user, Marketing super user	<ul style="list-style-type: none"> After fill out the fields, actor can click [save as draft] button, if want to make a records as <u>draft</u>. After that, system will proceed to store a data into database and will be automatically check a validation of data (such like; data type, mandatory data, and data length) If done, actor can click back button to return to the customer list, then customer data will be displayed.
5	Submit customer record	Marketing user, Marketing super user	<ul style="list-style-type: none"> Once data is saved and data has been confirmed, actor can submit the record by click [submit] button. After that system will set a supplier record as <u>submitted (or not draft)</u>. If done, actor can click back button to return to the customer list.
6.	Filter and sort customer records	Marketing user, Marketing super user	<ul style="list-style-type: none"> Actor can then filter and sort the customer record based on columns where displayed on the customer list. To filter customer records, actor can enter keywords into the filter fields. After that press enter on the keyboards. If data founds, the result will be displayed on the customer list. If doesn't customer list will be blanks. To sort customer records, actor can click header of column on the list table. After that the records will be sorted by ascending or descending, alternately.
7.	Edit customer records	Marketing user, Marketing super user	<ul style="list-style-type: none"> On the customer information screen actor can open edit customer screen to edit some kinds of data. If there is customer record still draft, <i>marketing user</i> can click [edit] button on the right side of the records on the customer information list. If there is customer record already submits and the status is <u>active</u>, <i>marketing user</i> cannot click [edit] button to open edit customer screen. Only, <i>marketing super user</i> can edit customer record with status is <u>active</u> or <u>inactive</u>. To edit data of customer and if edit customer screen opens, actor can edit a record by inputting a data on each of the fields. The mandatory fields cannot be blanks.
8.	View detail customer record	Marketing user,	<ul style="list-style-type: none"> On the customer information screen actor can open view detail customer screen to inspect a data.

Functional Specification: A.4 Master Data Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 8 of 32

		Marketing super user	<ul style="list-style-type: none"> To view detail customer record, click [view detail] button, after that system will displayed a screen of view detail customer. On this screen, actor cannot do something to edit of data. Only view detail of customer record.
9	Change status of customer record	Marketing super user	<ul style="list-style-type: none"> If view detail customer screen opens, actor can change the status of customer by click of [activated] button or [deactivated] button (depending by status that needs to change). If marketing super user want to data should be edited by user, then records can be [set to draft] After that, system will proceed automatically to change the status. If status of customer record is active, then [activated] will be visible. And opposite that, if status of customer record is inactive, then [deactivated] will be visible. In short, one of them will be visible or invisible. If done, actor can click back button to return to the customer list.

2.1.3 Status management and roles

The figure below is describing a role matrix (including relation with Status) of actor that already identified in a function.

Role of Actor	Filter and sort	Save as draft	Save changes (draft)	Save changes (active)	Submit	Activated	Deactivated
Marketing super user	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Marketing user	Yes	Yes	Yes	No	Yes	No	No

The figure below is describing workflow of Status that performed when people interact in a function.

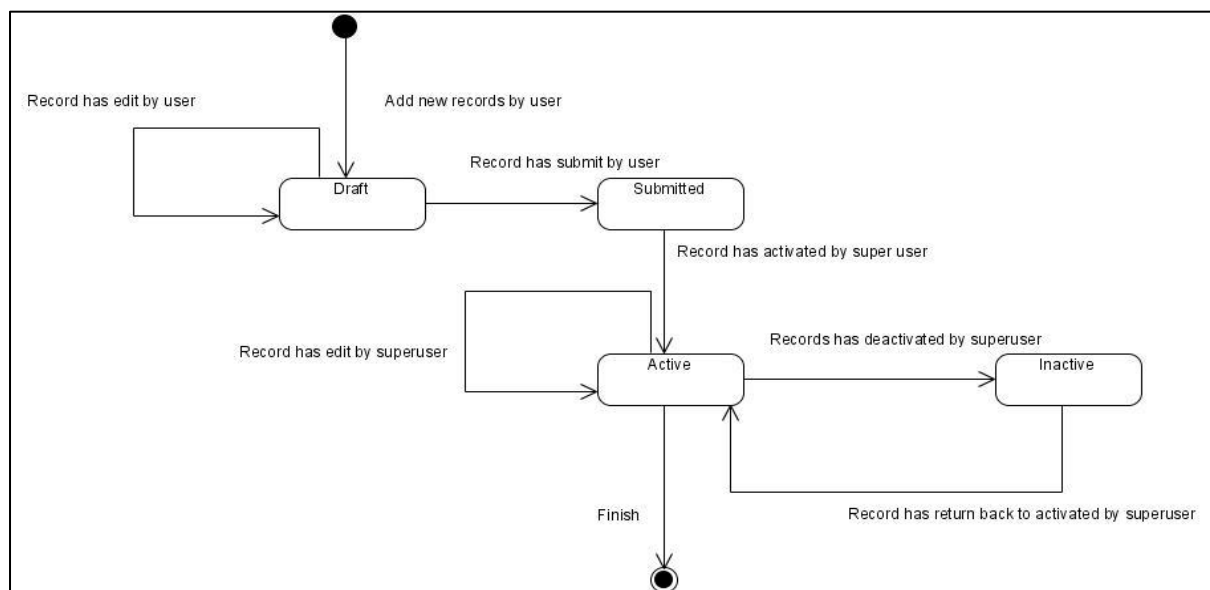


Figure 3 – Status diagram of Customer Information

Functional Specification: A.4 Master Data Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 9 of 32

2.1.4 Sitemap design

Describe a web page that lists the pages on a web site to users. Usually sitemap organized in hierarchical style.

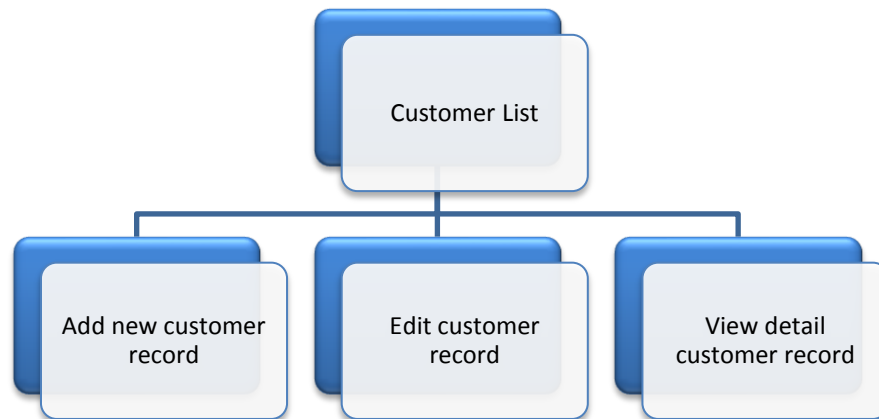


Figure 4 – Sitemap design of customer information page

2.1.5 Screen design

2.1.5.1 Customer information

This screen is designed to display a customer list. On the customer list user can filter and sort a customer records. And also, user can open another screen to add new customer record, edit customer record, and view detail of customer record.

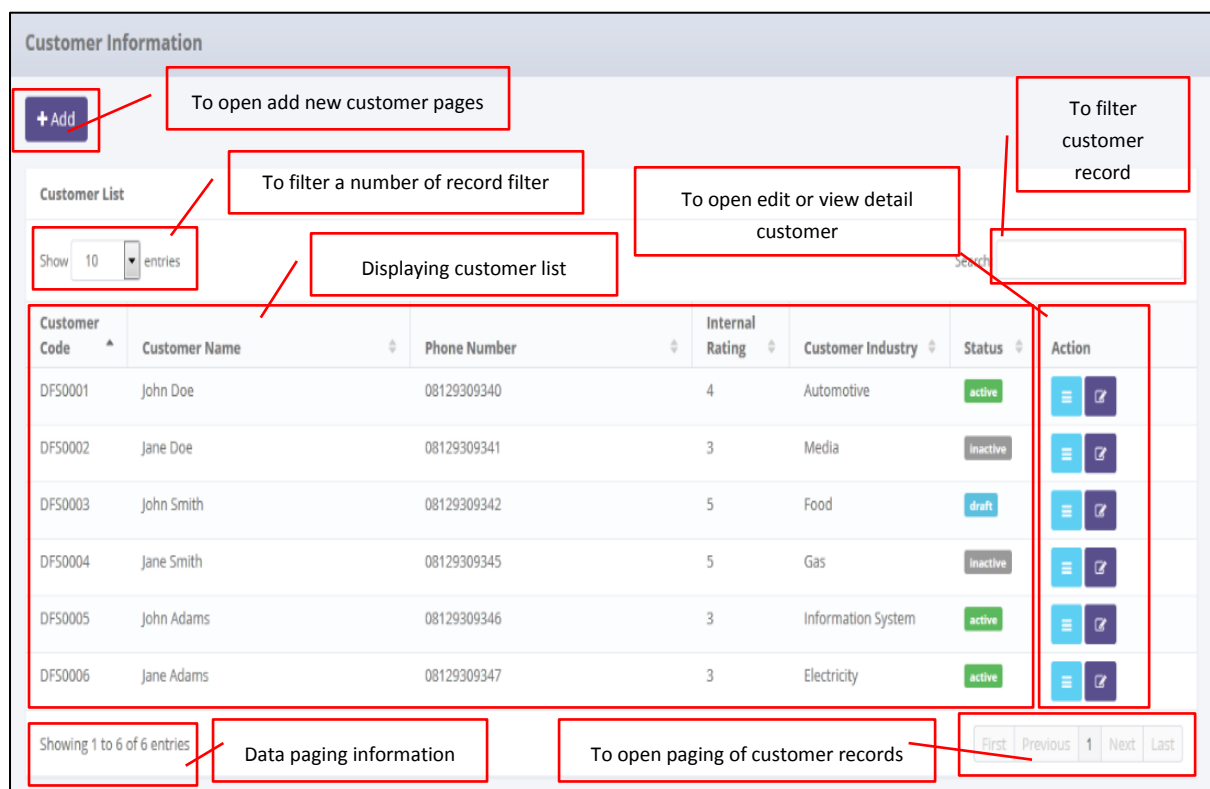


Image 1 – Screen of Customer Information

Functional Specification: A.4 Master Data Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 10 of 32

2.1.5.2 Add new customer record

This screen is designed to entry a new customer record. After fill out some data at the screen, user can stored a data into the system by click the action button.

Back

Return back to customer list

To entry a data of customer

Basic Information

Customer Code
Customer Code

Name
Customer Name

Internal Rating
Internal Rating

Address
Customer Address

Telephone
Phone Number

Industry
Customer Industry

Bank 1
Bank 1

Bank 2
Bank 2

Bank 3
Bank 3

Shareholder 1
Supplier 1

Shareholder 2
Supplier 2

Shareholder 3
Supplier 3

Main Customer 1
Main Customer 1

Main Customer 2
Supplier 2

Main Customer 3
Main Customer 3

Representative Director 1
Representative Director 1

Representative Director 2
Representative Director 2

Representative Director 3
Representative Director 3

Financial Information

Fiscal Year 1
Fiscal Year 1

Sales Profit 1
Sales Profit 1

Net Profit 1
Net Profit 1

Fiscal Year 2
Fiscal Year 2

Sales Profit 2
Sales Profit 2

Net Profit 2
Net Profit 2

Fiscal Year 3
Fiscal Year 3

Sales Profit 3
Sales Profit 3

Net Profit 3
Net Profit 3

Credit Information | Owned Vehicle Information | Detail of DSF Contract Unit

Maximum Credit Line
Maximum Credit Line

Total Credit Balance (Group as a whole)
Total Credit Balance

Total Credit Balance (Single)
Total Credit Balance (Single)

Over Due Amount
Over Due Amount

Number of Over due
Number of Over due

Save as Draft Submit

To save or submit of data

Image 2 – Screen of add new customer record

Functional Specification: A.4 Master Data Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 11 of 32

2.1.5.3 Edit customer record

This screen is designed to edit customer record. After changes some data at the screen, user can stored a data into the system by click the action button.

The screenshot shows the 'Edit customer record' interface. At the top left, a 'Back' button is highlighted with a red box and labeled 'Return back to customer list'. The main form area is outlined in red and labeled 'Entry data form'. At the bottom, a 'Save Changes' button is highlighted with a red box and labeled 'To save or submit of data'.

Basic Information

Customer Code DSF0001	Name John Doe	Internal Rating 5
Address Jakarta	Telephone 083474837287	Industry Automotive

Corporate Information

Date of Establishment Example	Capital Example	Number of Employees Example
Number of Branch Example	Go Public Company Yes	
Bank 1 Example	Bank 2 Example	Bank 3 Example
Shareholder 1 Example	Shareholder 2 Example	Shareholder 3 Example
Supplier 1 Example	Supplier 2 Example	Supplier 3 Example
Main Customer 1 Example	Main Customer 2 Example	Main Customer 3 Example
Representative Director 1 Example	Representative Director 2 Example	Representative Director 3 Example

Financial Information

Fiscal Year 1 Example	Sales Profit 1 Example	Net Profit 1 Example
Fiscal Year 2 Example	Sales Profit 2 Example	Net Profit 2 Example
Fiscal Year 3 Example	Sales Profit 3 Example	Net Profit 3 Example

Credit Information | Owned Vehicle Information | Detail of DSF Contract Unit

Maximum Credit Line Example	
Total Credit Balance (Group as a whole) Example	Total Credit Balance (Single) Example
Over Due Amount Example	Number of Over due (Latest One Year) Example

Image 3 – Screen of edit customer record

Functional Specification: A.4 Master Data Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 12 of 32

2.1.5.4 View detail customer record

This screen is designed to view detail a customer record. On this screen user can changes status of a customer record by click action button.

Back → Return back to customer list

Detail information of customer

Status of customer record → **Active**

Basic Information

Code	Name	Internal Rating
Customer Code	Customer Name	Internal Rating
Address	Telephone	Customer Industry
Customer Address	Phone Number	Customer Industry

Corporate Information

Date of Establishment	Capital	Number of Employees
01/01/2014	Capital	100
Number of Branch	Go Public Company	
2	Yes	
Bank 1	Bank 2	Bank 3
Bank 1	Bank 2	Bank 3
Shareholder 1	Shareholder 2	Shareholder 3
Shareholder 1	Shareholder 2	Shareholder 3
Supplier 1	Supplier 2	Supplier 3
Supplier 1	Supplier 2	Supplier 3
Main Customer 1	Main Customer 2	Main Customer 3
Main Customer 1	Main Customer 2	Main Customer 3
Representative Director 1	Representative Director 2	Representative Director 3
Representative Director 1	Representative Director 2	Representative Director 3

Financial Information

Fiscal Year 1	Sales Profit 1	Net Profit 1
Fiscal Year 1	Sales Profit 1	Net Profit 1
Fiscal Year 2	Sales Profit 2	Net Profit 2
Fiscal Year 2	Sales Profit 2	Net Profit 2
Fiscal Year 3	Sales Profit 3	Net Profit 3
Fiscal Year 3	Sales Profit 3	Net Profit 3

Credit Information | Owned Vehicle Information | Detail of DSF Contract Unit

Maximum Credit Line	Total Credit Balance (Group as a whole)	Total Credit Balance (Single)
Maximum Credit Line	Total Credit Balance (Group as a whole)	Total Credit Balance (Single)
Over Due Amount	Number of Over due (Latest One Year)	Number of Over due (Latest One Year)
Over Due Amount	Number of Over due (Latest One Year)	Number of Over due (Latest One Year)

Set as Inactive → To changes a status of customer record

Image 4 – Screen of view detail customer record

Functional Specification: A.4 Master Data Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 13 of 32

2.1.6 Screen features

Features	Description
[Filter and sort]	To perform data filter and data sort of product records.
[Add new]	To add new customer record by fill out add new form.
[Save as draft] or [Set to draft]	To save a new customer record as a draft.
[Submit]	To submit a customer record as a final.
[Save changes]	To update of changes when editing customer record.
[View detail]	To inspect a detail customer records by opens a detail form of customer.
[Edit]	To edit of customer record.
[Activated]	To return back of status of customer record as active.
[Deactivated]	To set a status of customer record as inactive

2.1.7 Data structure

Field	Data Type	Data Length	Format	Mandatory
Customer Id	Text	10	N/A	Yes
Name	Text	200	N/A	Yes
Address	Text	200	N/A	Yes
Telephone	Number	15	N/A	Yes
Internal rating	Number	10	N/A	No
Business sector economy	Text	100	N/A	Yes
Date of establishment	Date	N/A	dd-mm-yyyy	No
Capital	Text	200	N/A	No
Number of employee	Text	200	N/A	No
Branch number	Number	10	N/A	No
Go public company	Yes/ NO	N/A	N/A	No
Maximum credit line	Currency	18	###,###,###.##	No
Total cost balance group	Currency	18	###,###,###.##	No
Total cost balance single	Currency	18	###,###,###.##	No
Overdue amount	Currency	18	###,###,###.##	No
Overdue number	Numeric	10	N/A	No
Customer vehicle unit	Number	10	N/A	No
DSF vehicle unit	Number	10	N/A	No
Potential vehicle unit	Number	10	N/A	No
Information acquisition date vehicle unit	Date	N/A	dd-mm-yyyy	No
Customer forklift unit	Number	10	N/A	No
DSF forklift unit	Number	10	N/A	No

Functional Specification: A.4 Master Data Module

Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 14 of 32

Potential forklift unit	Number	10	N/A	No
Information acquisition date forklift unit	Date	N/A	dd-mm-yyyy	No
Customer HE unit	Number	10	N/A	No
DSF HE unit	Number	10	N/A	No
Potential HE unit	Number	10	N/A	No
Information acquisition date HE unit	Date	N/A	dd-mm-yyyy	No
LCV non maintenance	Number	18	N/A	No
LCV maintenance	Number	18	N/A	No
LCV CSD	Number	18	N/A	No
LCV finance lease	Currency	18	###,###,###.##	No
CV non maintenance	Number	18	N/A	No
CV maintenance	Number	18	N/A	No
CV CSD	Number	18	N/A	No
CV finance lease	Currency	18	###,###,###.##	No
PC non maintenance	Number	18	N/A	No
PC maintenance	Number	18	N/A	No
PC CSD	Number	18	N/A	No
PC finance lease	Currency	18	###,###,###.##	No
Forklift non maintenance	Number	18	N/A	No
Forklift maintenance	Number	18	N/A	No
Forklift CSD	Number	18	N/A	No
Forklift finance lease	Currency	18	###,###,###.##	No
HE non maintenance	Number	18	N/A	No
HE maintenance	Number	18	N/A	No
HE CSD	Number	18	N/A	No
HE finance lease	Currency	18	###,###,###.##	No
IsDraft	YES/NO	N/A	N/A	Yes
IsActive	YES/NO	N/A	N/A	Yes
IsSubmit	YES/NO	N/A	N/A	Yes
Remarks	Text	200	N/A	No
Customer Detail Info				
Bank	Text	100	N/A	No
Shareholder	Text	100	N/A	No
Main Vendor	Text	100	N/A	No
Main Customer	Text	100	N/A	No
Representative Director	Text	100	N/A	No
Fiscal Year	Text	100	N/A	No
Sales Profit	Number	10	N/A	No
Net Profit	Number	10	N/A	No
Remarks	Text	200	N/A	No

Functional Specification: A.4 Master Data Module			
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Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 15 of 32

2.2 Supplier information

2.2.1 Use case

The figure below is summarizing who uses features of function, and what they can do with it.

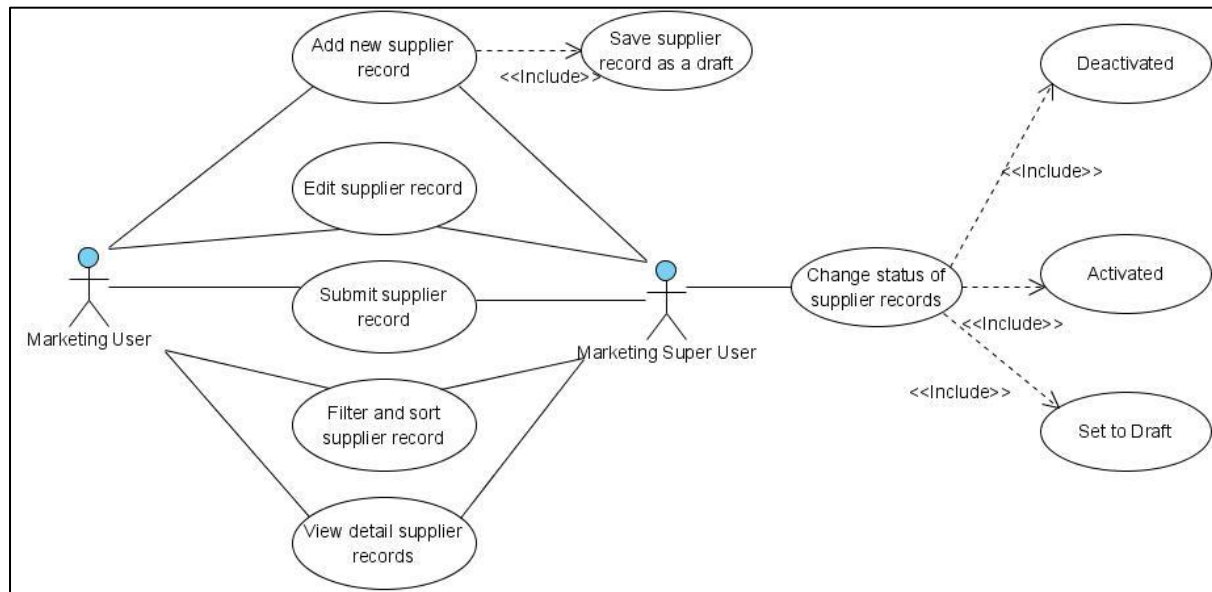


Figure 5 – Use case diagram of Supplier Information

2.2.2 Operations and scenarios

The figure below is describing operations or steps performed in a function interact with people (flow of work between users and the system).

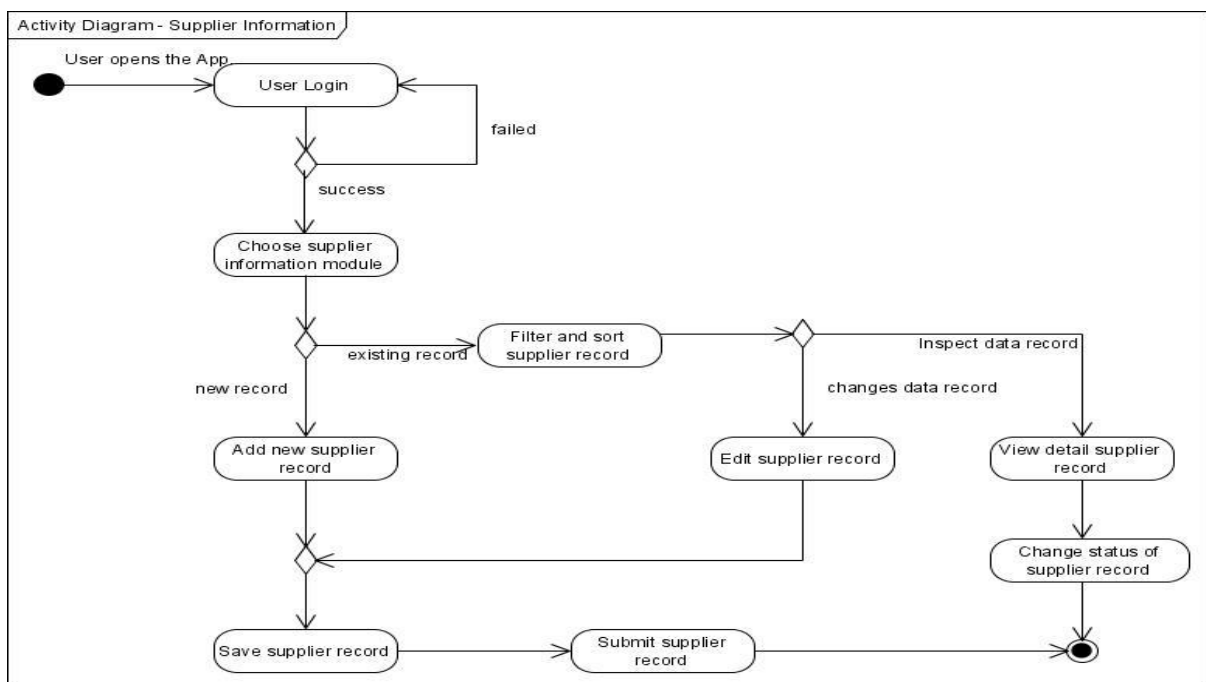


Figure 6 – Activity diagram of Supplier Information

Functional Specification: A.4 Master Data Module

Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 16 of 32

No.	Steps/ Operations	Actor/ People	Scenario
1	Login	Marketing user, Marketing super user	<ul style="list-style-type: none"> Actor fills out login form by inputting user name and password. Actor clicks [sign in] button. System will check the account of user; if actor account is already registered user will enter into the system. If doesn't user can return the step.
2.	Choose supplier information module	Marketing user, Marketing super user	<ul style="list-style-type: none"> After login, actor can choose supplier information module on the menu of system. After that, screen of supplier information will be opens. After supplier screen opens, supplier list will be shown and supplier data existing will be displayed.
3.	Add new supplier	Marketing user, Marketing super user	<ul style="list-style-type: none"> If supplier information screen opens, actor can click [add] button to add new records of supplier, and after that add new supplier screen will be opens. Upon add new supplier screen, actor fill out the fields. The mandatory fields cannot be blanks.
4.	Save supplier record	Marketing user, Marketing super user	<ul style="list-style-type: none"> After fill out the fields, actor can click [save as draft] button, if want to make a records as <u>draft</u>. After that, system will proceed to store a data into database and will be automatically check a validation of data (such like; data type, mandatory data, and data length) If done, actor can click back button to return to the supplier list, then supplier data will be displayed.
5	Submit supplier record	Marketing user, Marketing super user	<ul style="list-style-type: none"> Once data is saved and data has been confirmed, actor can submit the record by click [submit] button. After that system will set a supplier record as <u>submitted (or not draft)</u>. If done, actor can click back button to return to the supplier list.
6.	Filter and sort supplier records	Marketing user, Marketing super user	<ul style="list-style-type: none"> Actor can then filter and sort the supplier record based on columns where displayed on the supplier list. To filter supplier records, actor can enter keywords into the filter fields. After that press enter on the keyboards. If data founds, the result will be displayed on the supplier list. If doesn't supplier list will be blanks. To sort supplier records, actor can click header of column on the list table. After that the records will be sorted by ascending or descending, alternately.
7.	Edit supplier records	Marketing user, Marketing super user	<ul style="list-style-type: none"> On the supplier information screen actor can open edit supplier screen to edit some kinds of data. If there is supplier record still draft, <i>marketing user</i> can click [edit] button on the right side of the records on the supplier information list. If there is supplier record already submits and the status is <u>active</u>, <i>marketing user</i> cannot click [edit] button to open edit supplier screen. Only, <i>marketing super user</i> can edit supplier record with status is <u>active</u> or <u>inactive</u>. To edit data of supplier and if edit supplier screen opens, actor can edit a record by inputting a data on each of the fields.

Functional Specification: A.4 Master Data Module

Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 17 of 32

			<ul style="list-style-type: none"> The mandatory fields cannot be blanks.
8.	View detail supplier record	Marketing user, Marketing super user	<ul style="list-style-type: none"> On the supplier information screen actor can open view detail supplier screen to inspect a data. To view detail supplier record, click [view detail] button, after that system will displayed a screen of view detail supplier. On this screen, actor cannot do something to edit of data. Only view detail of supplier record.
9	Change status of supplier record	Marketing super user	<ul style="list-style-type: none"> If view detail supplier screen opens, actor can change the status of supplier by click of [activated] button or [deactivated] button (depending by status that needs to change). If marketing super user want to data should be edited by user, then records can be [set to draft] After that, system will proceed automatically to change the status. If status of supplier record is active, then [activated] will be visible. And opposite that, if status of supplier record is inactive, then [deactivated] will be visible. In short, one of them will be visible or invisible. If done, actor can click back button to return to the supplier list.

2.2.3 Status management and roles

The figure below is describing a role matrix (including relation with Status) of actor that already identified in a function.

Role of Actor	Filter and sort	Save as draft	Save changes (draft)	Save changes (active)	Submit	Activated	Deactivated
Marketing super user	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Marketing user	Yes	Yes	Yes	No	Yes	No	No

The figure below is describing workflow of Status that performed when people interact in a function.

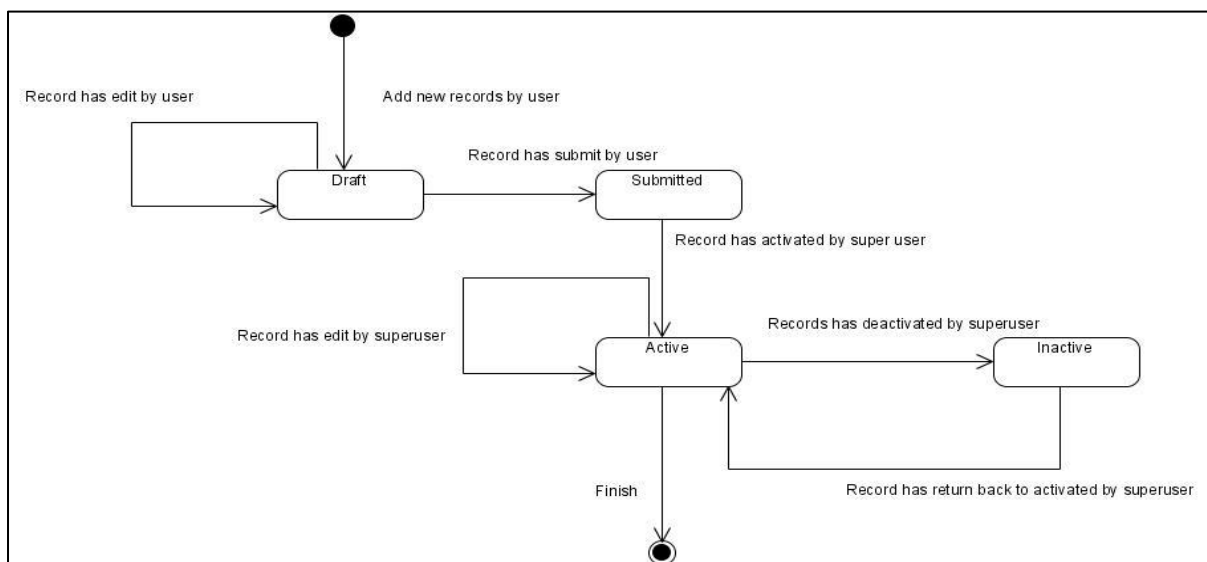


Figure 7 – Status diagram of Supplier Information

Functional Specification: A.4 Master Data Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 18 of 32

2.2.4 Sitemap design

Describe a web page that lists the pages on a web site to users. Usually sitemap organized in hierarchical style.

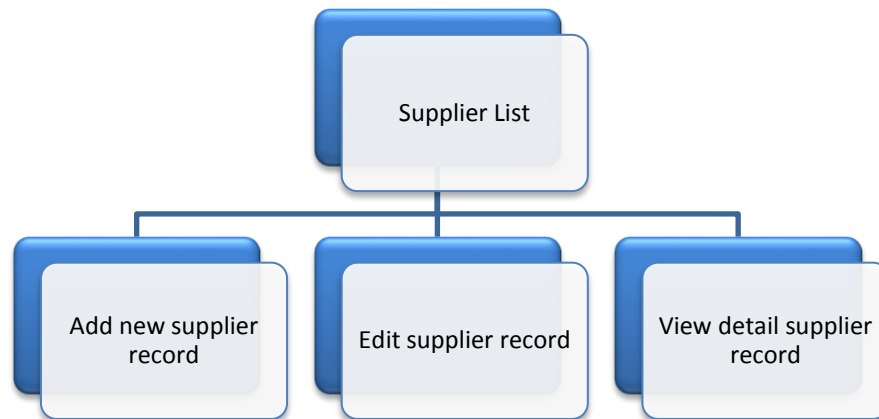


Figure 8 – Sitemap design of supplier information page

2.2.5 Screen design

2.2.5.1 Supplier information

This screen is designed to display a supplier list. On the supplier list user can filter and sort a supplier records. And also, user can open another screen to add new supplier record, edit supplier record, and view detail of supplier record.

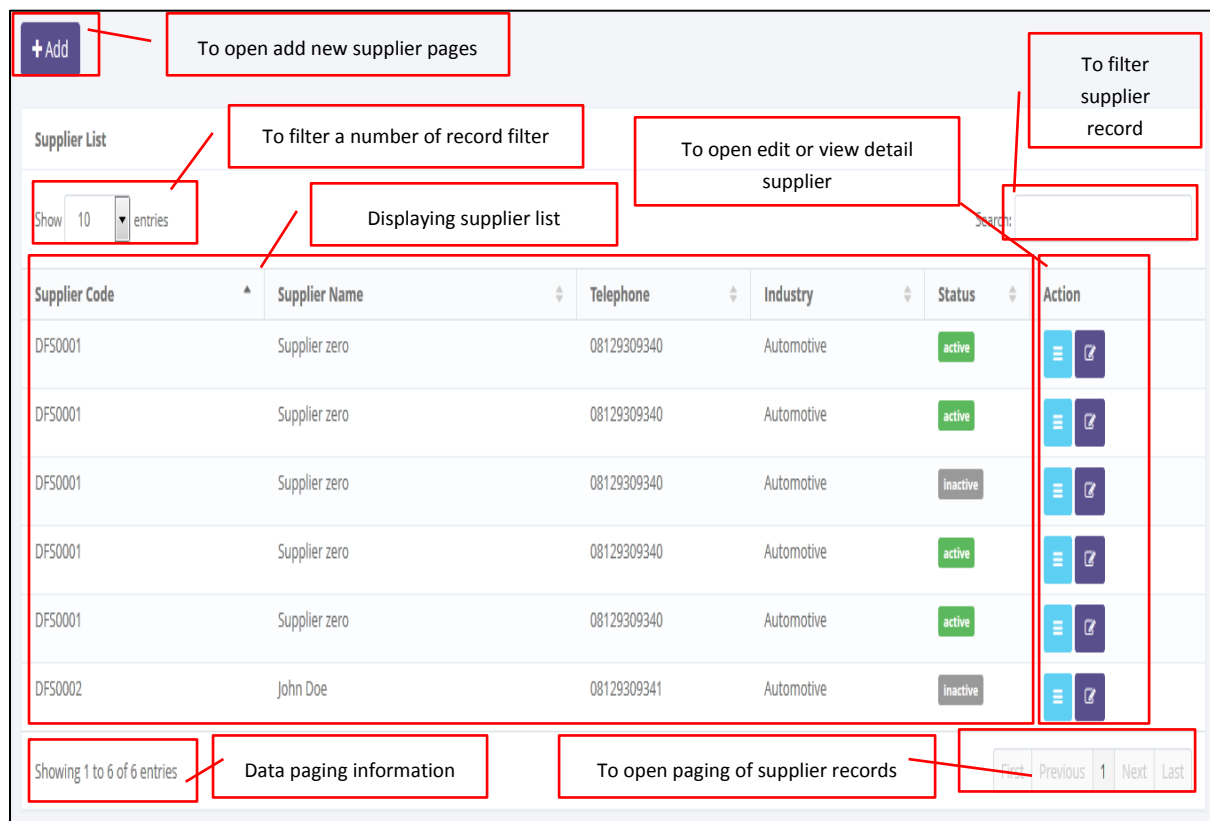


Image 5 – Screen of supplier information

Functional Specification: A.4 Master Data Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 19 of 32

2.2.5.2 Add new supplier record

This screen is designed to entry a new supplier record. After fill out some data at the screen, user can stored a data into the system by click the action button.

The screenshot shows the 'Add new supplier record' interface. At the top, there is a navigation bar with a 'Back' button (labeled 'Return back to supplier list') and a red box indicating the main form area is 'To entry a data of supplier'. The form is organized into four sections:

- Basic Information:** Includes a 'Supplier Category' dropdown (set to 'Dealer'), 'Code' (Supplier Code), 'Name' (Supplier Name), 'Address' (Supplier Address), 'Telephone' (Phone Number), and 'Industry' (Supplier Industry).
- Corporate Information:** Includes 'Date of Establishment' (The Date), 'Capital' (Capital), 'Number of Employees' (Number of Employees), 'Number of Branch' (-), 'Go Public Company' (Yes), and three rows for 'Bank' (Bank 1, Bank 2, Bank 3), 'Shareholder' (Shareholder 1, Shareholder 2, Shareholder 3), and 'Main Customer' (Main Customer 1, Main Customer 2, Main Customer 3).
- Payment Information:** Includes 'Bank Account 1' (Bank Account 1), 'Branch Name' (Branch Name), 'Bank Account Number' (Bank Account Number), and 'Name Account Holder' (Name Account Holder).

At the bottom, there is a 'Save as Draft' button and a 'Submit' button (labeled 'To save or submit of data').

Image 6 – Screen of add new supplier record

Functional Specification: A.4 Master Data Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 20 of 32

2.2.5.3 Edit supplier record

This screen is designed to edit supplier record. After changes some data at the screen, user can stored a data into the system by click the action button.

The screenshot displays the 'Edit supplier record' interface. At the top left, a 'Back' button is highlighted with a red box and labeled 'Return back to supplier list'. The main form area, outlined in red, is labeled 'Entry data form'. It contains the following sections:

- Basic Information:** Includes a 'Supplier Category' dropdown (set to 'Dealer'), 'Code' and 'Name' text fields, and 'Address', 'Telephone', and 'Industry' text fields.
- Corporate Information:** Includes 'Date of Establishment', 'Capital', and 'Number of Employees' text fields; 'Number of Branch' text field; 'Go Public Company' dropdown (set to 'Yes'); and three columns for 'Bank' (Bank 1, Bank 2, Bank 3), 'Shareholder' (Shareholder 1, Shareholder 2, Shareholder 3), and 'Main Customer' (Main Customer 1, Main Customer 2, Main Customer 3), each with a text field.
- Payment Information:** Includes 'Bank Account 1', 'Branch Name', and 'Bank Account Number' text fields, and a 'Name Account Holder' text field.

At the bottom, a 'Save Changes' button is highlighted with a red box and labeled 'To save or submit of data'.

Image 7 – Screen of edit supplier record

Functional Specification: A.4 Master Data Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 21 of 32

2.2.5.4 View detail supplier record

This screen is designed to view detail a supplier record. On this screen user can changes status of a supplier record by click action button.

Back

Return back to supplier list

Detail information of supplier

Status of supplier record

Active

Basic Information

Code	Name	
Supplier Code	Supplier Name	
Address	Telephone	Industry
Supplier Address	Phone Number	Supplier Industry

Corporate Information

Date of Establishment	Capital	Number of Employees
01/01/2014	Capital	100
Number of Branch	Go Public Company	
2	Go Public Company	
Bank 1	Bank 2	Bank 3
Bank 1	Bank 2	Bank 3
Shareholder 1	Shareholder 2	Shareholder 3
Shareholder 1	Shareholder 2	Shareholder 3
Main Customer 1	Main Customer 2	Main Customer 3
Main Customer 1	Main Customer 2	Main Customer 3

Payment Information

Bank Account 1	Branch Name	Bank Account Number
Bank Account 1	Branch Name	Bank Account Number
Name Account Number		
Name Account Number		

Set as Inactive

To changes a status of supplier record

Image 8 – Screen of view detail supplier record

Functional Specification: A.4 Master Data Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 22 of 32

2.2.6 Screen features

Features	Description
[Filter and sort]	To perform data filter and data sort of product records.
[Add new]	To add new supplier record by fill out add new form.
[Save as draft] or [Set to draft]	To save a new supplier record as a draft.
[Submit]	To submit a supplier record as a final.
[Save changes]	To update of changes when editing supplier record.
[View detail]	To inspect a detail supplier records by opens a detail form of supplier.
[Edit]	To edit of supplier record.
[Activated]	To return back of status of supplier record as active.
[Deactivated]	To set a status of supplier record as inactive

2.2.7 Data structure

Field	Data Type	Data Length	Format	Mandatory
Supplier Category	Text	200	N/A	Yes
Supplier Group Code	Text	100	N/A	Yes
Supplier Group Name	Text	200	N/A	Yes
Supplier Code	Text	100	N/A	Yes
Supplier Name	Text	200	N/A	Yes
Address	Text	Max	N/A	Yes
Telephone	Text	15	N/A	Yes
Business Economy Sector	Text	200	N/A	Yes
Establishment Date	Date	N/A	dd-mm-yyyy	No
Capital	Text	100	N/A	No
Number of employee	Text	200	N/A	No
Number of Branch	Number	10	N/A	No
Go Public Company	YES/NO	N/A	N/A	No
IsDraft	YES/NO	N/A	N/A	Yes
IsActive	YES/NO	N/A	N/A	Yes
IsSubmit	YES/NO	N/A	N/A	Yes
Remarks	Text	200	N/A	No
Supplier Corporate Info				
Bank Name	Text	100	N/A	No
Shareholder	Text	100	N/A	No
Main Customer	Text	100	N/A	No
Supplier Payment Info				

Functional Specification: A.4 Master Data Module

Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 23 of 32

Bank Account	Text	100	N/A	No
Branch Name	Text	100	N/A	No
Bank Account Number	Text	100	N/A	No
Name Account Holder	Text	100	N/A	No

2.3 Product information

2.3.1 Use case

The figure below is summarizing who uses features of function, and what they can do with it.

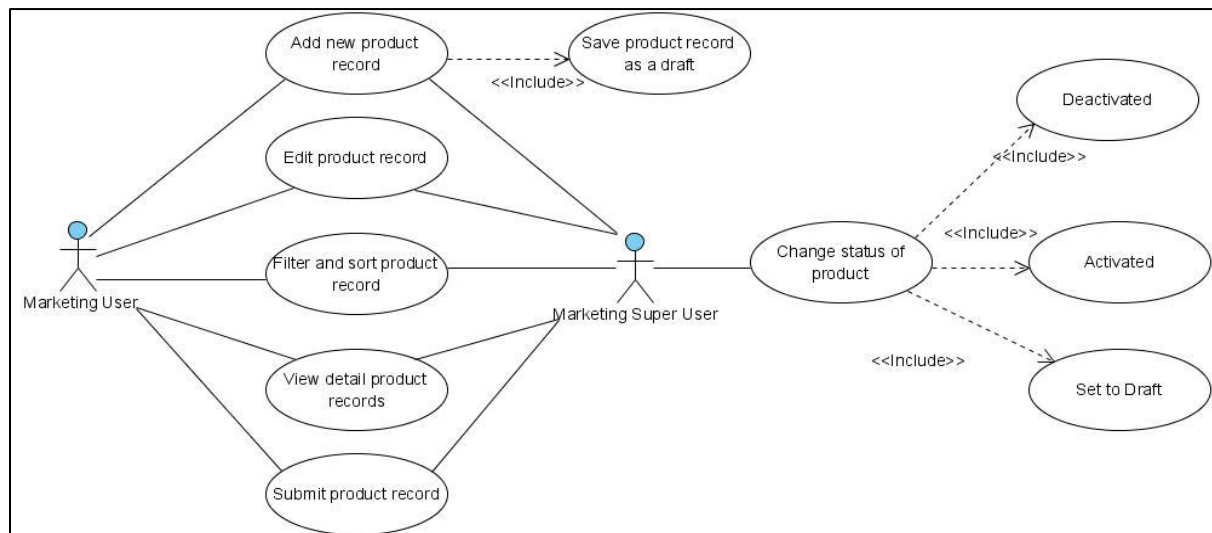


Figure 9 – Use case diagram of Product Information

2.3.2 Operations and scenarios

The figure below is describing operations or steps performed in a function interact with people (flow of work between users and the system).

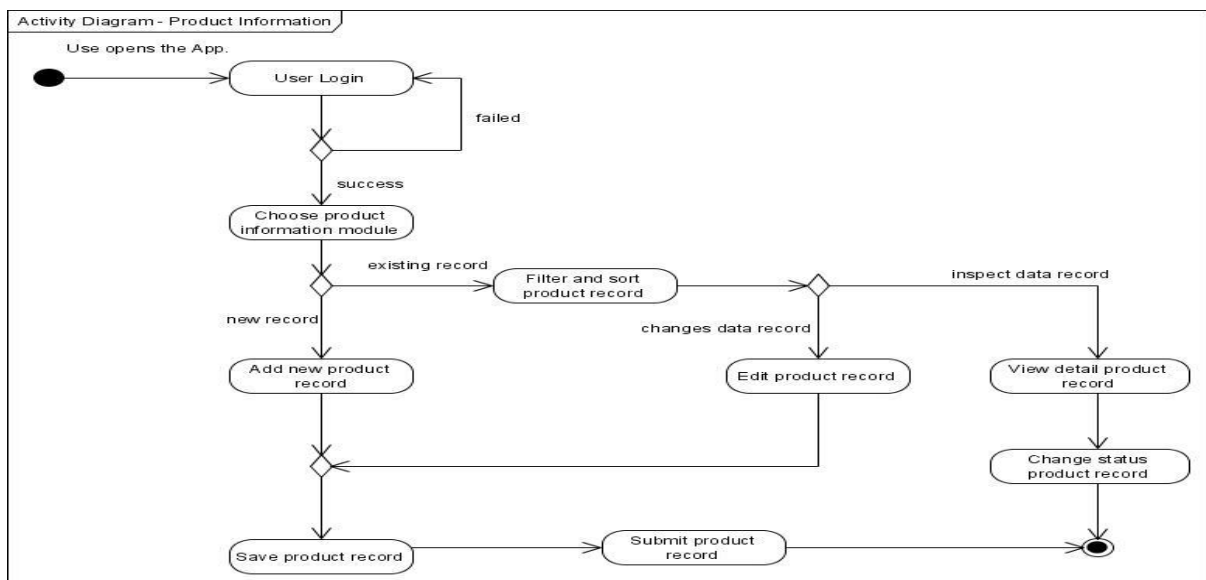


Figure 10 – Activity diagram of Product Information

Functional Specification: A.4 Master Data Module

Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 24 of 32

No.	Steps/ Operations	Actor/ People	Scenario
1	Login	Marketing user, Marketing super user	<ul style="list-style-type: none"> Actor fills out login form by inputting user name and password. Actor clicks [sign in] button. System will check the account of user; if actor account is already registered user will enter into the system. If doesn't user can return the step.
2.	Choose product information module	Marketing user, Marketing super user	<ul style="list-style-type: none"> After login, actor can choose product information module on the menu of system. After that, screen of product information will be opens. After product screen opens, product list will be shown and product data existing will be displayed.
3.	Add new product	Marketing user, Marketing super user	<ul style="list-style-type: none"> If product information screen opens, actor can click [add] button to add new records of product, and after that add new product screen will be opens. Upon add new product screen, actor fill out the fields. The mandatory fields cannot be blanks.
4.	Save product record	Marketing user, Marketing super user	<ul style="list-style-type: none"> After fill out the fields, actor can click [save as draft] button, if want to make a records as <u>draft</u>. After that, system will proceed to store a data into database and will be automatically check a validation of data (such like; data type, mandatory data, and data length) If done, actor can click back button to return to the product list, then product data will be displayed.
5	Submit product record	Marketing user, Marketing super user	<ul style="list-style-type: none"> Once data is saved and data has been confirmed, actor can submit the record by click [submit] button. After that system will set a supplier record as <u>submitted (or not draft)</u>. If done, actor can click back button to return to the product list.
6.	Filter and sort product records	Marketing user, Marketing super user	<ul style="list-style-type: none"> Actor can then filter and sort the product record based on columns where displayed on the product list. To filter product records, actor can enter keywords into the filter fields. After that press enter on the keyboards. If data founds, the result will be displayed on the product list. If doesn't product list will be blanks. To sort product records, actor can click header of column on the list table. After that the records will be sorted by ascending or descending, alternately.
7.	Edit product records	Marketing user, Marketing super user	<ul style="list-style-type: none"> On the product information screen actor can open edit product screen to edit some kinds of data. If there is product record still draft, <i>marketing user</i> can click [edit] button on the right side of the records on the product information list. If there is product record already submits and the status is <u>active</u>, <i>marketing user</i> cannot click [edit] button to open edit product screen. Only, <i>marketing super user</i> can edit product record with status is <u>active</u> or <u>inactive</u>. To edit data of product and if edit product screen opens, actor can edit a record by inputting a data on each of the fields. The mandatory fields cannot be blanks.
8.	View detail product	Marketing	<ul style="list-style-type: none"> On the product information screen actor can open view

Functional Specification: A.4 Master Data Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 25 of 32

	record	user, Marketing super user	detail product screen to inspect a data. <ul style="list-style-type: none"> To view detail product record, click [view detail] button, after that system will displayed a screen of view detail product. On this screen, actor cannot do something to edit of data. Only view detail of product record.
9	Change status of product record	Marketing super user	<ul style="list-style-type: none"> If view detail product screen opens, actor can change the status of product by click of [activated] button or [deactivated] button (depending by status that needs to change). If marketing super user want to data should be edited by user, then records can be [set to draft] After that, system will proceed automatically to change the status. If status of product record is active, then [activated] will be visible. And opposite that, if status of product record is inactive, then [deactivated] will be visible. In short, one of them will be visible or invisible. If done, actor can click back button to return to the product list.

2.3.3 Status management and roles

The figure below is describing a role matrix (including relation with Status) of actor that already identified in a function.

Role of Actor	Filter and sort	Save as draft	Save changes (draft)	Save changes (active)	Submit	Activated	Deactivated
Marketing super user	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Marketing user	Yes	Yes	Yes	No	Yes	No	No

The figure below is describing workflow of Status that performed when people interact in a function.

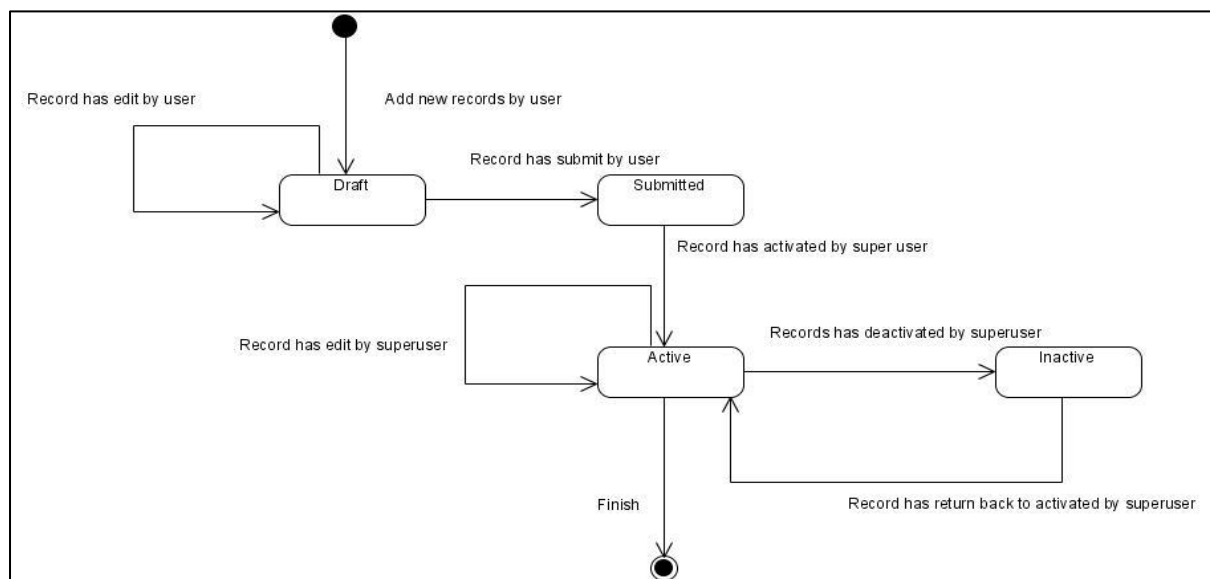


Figure 11 – Status diagram of Product Information

Functional Specification: A.4 Master Data Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 26 of 32

2.3.4 Sitemap design

Describe a web page that lists the pages on a web site to users. Usually sitemap organized in hierarchical style.

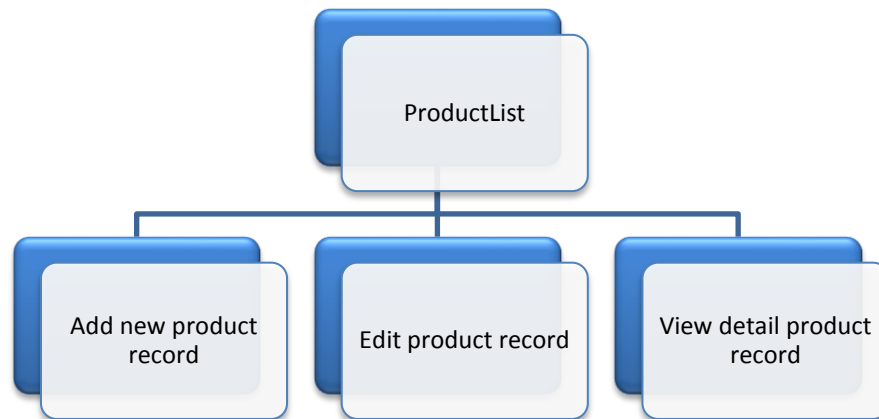


Figure 12 – Sitemap design of product information page

2.3.5 Screen design

2.3.5.1 Product information

This screen is designed to display a product list. On the product list user can filter and sort a product records. And also, user can open another screen to add new product, edit product record, and view detail of product record.

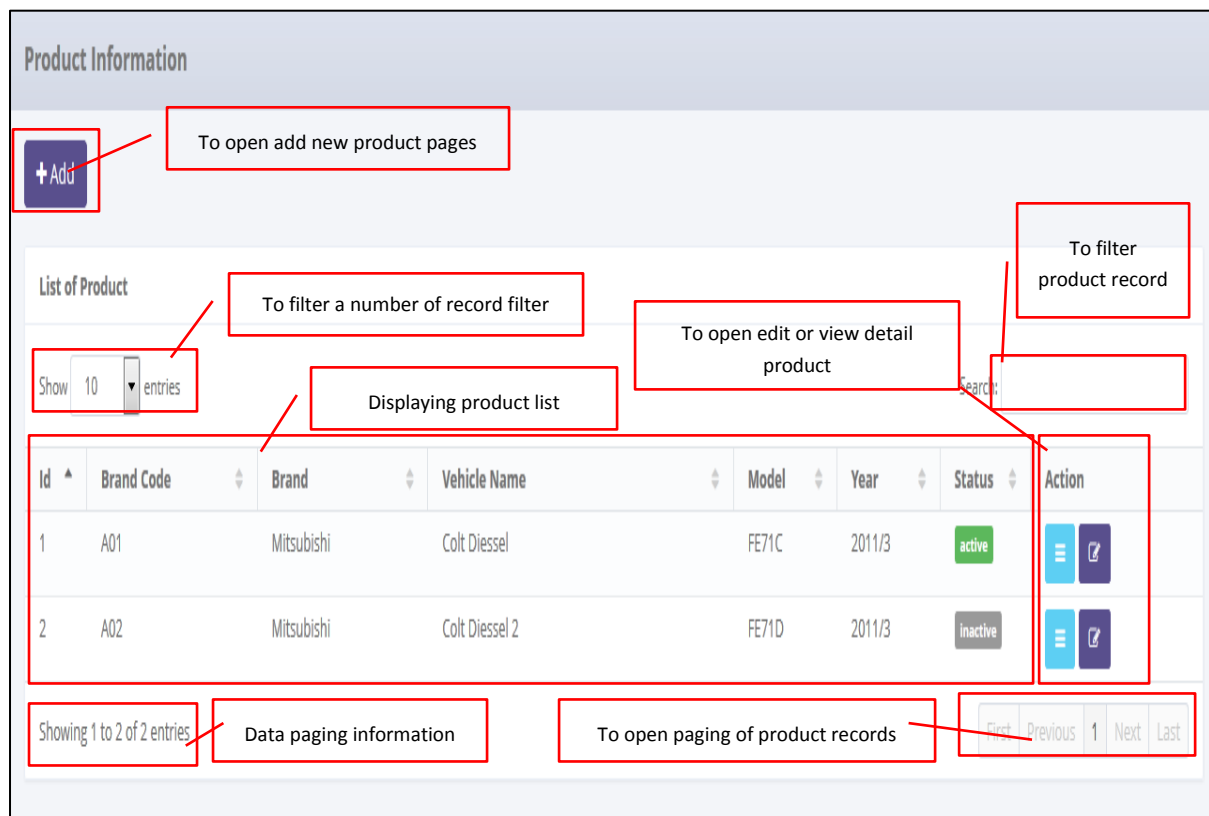


Image 9 – Screen of product information

Functional Specification: A.4 Master Data Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 27 of 32

2.3.5.2 Add new product record

This screen is designed to entry a new product record. After fill out some data at the screen, user can stored a data into the system by click the action button.

◀ Back

Return back to product list

To entry a data of product

Product Basic Information

Brand Code Brand Code	Brand Brand	Vehicle Name Vehicle Name
Model Year (yyyy/mm) (yyyy/mm)	Model Model	Grade Grade
Transmission Transmission	Displacement Displacement	Fuel Type Fuel Type
Riding Capacity Capacity	Maximum Loading Capacity Maximum Loading Capacity	Weight of Vehicle Weight
Gross Weight of Vehicle Gross Weight	Length Length	Width Width
Height Height	Wheelbase Wheelbase	Engine Model Model
Vehicle Category Category		

Maintenance and Other Information

STNK Renewal Cycle STNK Renewal Cycle	KIR Renewal Cycle KIR Renewal Cycle	Number of Battery Number of Battery
Battery Size Battery Size	Number of Tire Number of Tire	Tire Size (Front) Tire Size (Front)
Tire Size (Rear) Tire Size (Rear)	Rate Class of Maintenance Rate Class of Maintenance	Rate Class of Insurance Rate Class of Insurance

Save as Draft Submit

To save or submit of data

Image 10 – Screen of add new product record

Functional Specification: A.4 Master Data Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 28 of 32

2.3.5.3 Edit product record

This screen is designed to edit product record. After changes some data at the screen, user can stored a data into the system by click the action button.

The screenshot displays the 'Edit product record' interface. At the top left, a 'Back' button is highlighted with a red box and labeled 'Return back to product list'. To the right, a red box labeled 'Entry data form' points to the main data entry area. This area is divided into two main sections: 'Vehicle Basic Information' and 'Maintenance and Other Information'. Each section contains a grid of input fields, each with the placeholder text 'Example'. The 'Vehicle Basic Information' section includes fields for Brand Code, Brand, Vehicle Name, Model Year, Model, Grade, Transmission, Displacement, Fuel Type, Riding Capacity, Maximum Loading Capacity, Weight of Vehicle, Gross Weight of Vehicle, Length, Width, Height, Wheelbase, Engine Model, and Vehicle Category. The 'Maintenance and Other Information' section includes fields for STNK Renewal Cycle, KIR Renewal Cycle, Number of Battery, Battery Size, Number of Tire, Tire Size (Front), Tire Size (Rear), Rate Class of Maintenance, and Rate Class of Insurance. At the bottom left, a 'Save Changes' button is highlighted with a red box and labeled 'To save or submit of data'.

Image 11 – Screen of edit product record

Functional Specification: A.4 Master Data Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 29 of 32

2.3.5.4 View detail product record

This screen is designed to view detail a product record. On this screen user can changes status of a product record by click action button.

Product Basic Information

Brand Code	Brand	Vehicle Name
A01	Mitsubishi	Colt Diesel
Model Year (yyyy/mm)	Model	Grade
2011/3	FE7C	-- The Grade --
Transmission	Displacement	Fuel Type
6MT	4000cc	Diesel
Riding Capacity	Maximum Loading Capacity	Weight of Vehicle
2	2t	-- The Weight --
Gross Weight of Vehicle	Length	Width
-- The Weight --	250cm	-- The Width --
Height	Wheelbase	Engine Model
-- The Height --	--the wheelbase--	-- The Model --
Vehicle Category		
CV		

Maintenance and Other Information

STNK Renewal Cycle	KIR Renewal Cycle	Number of Battery
1 year	6 Month	2
Battery Size	Number of Tire	Tire Size (Front)
-- The Size --	6	-- The Size --
Tire Size (Rear)	Rate Class of Maintenance	Rate Class of Insurance
-- The Size --	-- The Class --	-- The Class --

Back **Return back to product list** **Detail information of product** **Status of product record** **Active**

Set as Inactive **To changes a status of product record**

Image 12 – Screen of view detail product record

Functional Specification: A.4 Master Data Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 30 of 32

2.3.6 Screen features

Features	Description
[Filter and sort]	To perform data filter and data sort of product records.
[Add new]	To add new product record by fill out add new form.
[Save as draft] or [Set to draft]	To save a new product record as a draft.
[Submit]	To submit a product record as a final.
[Save changes]	To update of changes when editing product record.
[View detail]	To inspect a detail product records by opens a detail form of product.
[Edit]	To edit of product record.
[Activated]	To return back of status of product record as active.
[Deactivated]	To set a status of product record as inactive

2.3.7 Data structure

Field	Data Type	Data Length	Format	Mandatory
Product Type	Text	100	N/A	Yes
Product Category	Text	100	N/A	Yes
Product Name	Text	100	N/A	Yes
Brand Code	Text	100	N/A	Yes
Brand Name	Text	100	N/A	Yes
Model Code	Text	100	N/A	Yes
Model Name	Text	100	N/A	Yes
Model Type	Text	100	N/A	Yes
Model Year	Date	N/A	mm-yyyy	Yes
Grade	Text	100	N/A	No
Transmission	Text	100	N/A	No
Displacement	Text	100	N/A	No
Fuel Type	Text	200	N/A	No
Riding Capacity	Number	10	N/A	No
Max Loading Capacity	Text	50	N/A	No
Vehicle Weight	Text	600	N/A	No
Gross Vehicle Weight	Text	100	N/A	No
Length	Text	100	N/A	No
Width	Text	100	N/A	No
Height	Text	100	N/A	No
Wheelbase	Text	100	N/A	No
Engine Model	Text	100	N/A	No

Functional Specification: A.4 Master Data Module

Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 31 of 32

STNK Renewal Cycle	Text	200	N/A	No
KIR Renewal Cycle	Text	100	N/A	No
Number of Battery	Number	10	N/A	No
Battery Size	Text	50	N/A	No
Number of Tire	Text	100	N/A	No
Front Tire Size	Text	200	N/A	No
Rear Tire Size	Text	200	N/A	No
Maintenance Rate Class	Text	100	N/A	No
Insurance Rate Class	Text	100	N/A	No
IsDraft	YES/NO	N/A	N/A	Yes
IsActive	YES/NO	N/A	N/A	Yes
IsSubmit	YES/NO	N/A	N/A	Yes
Remarks	Text	200	N/A	No

Functional Specification: A.4 Master Data Module

Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	25 September 2014
Status	Baseline	Version	1.0
Document	TM14402A - DSF OLSS - FS A.4 Master Data Module Rev.1.0	Page	Page 32 of 32

3 Appendix

What is the use case?

- (i) **A use case is** a written description of how users will perform tasks on your website. It outlines, from a user's point of view, a system's behavior as it responds to a request. Each use case is represented as a sequence of simple steps, beginning with a user's goal and ending when that goal is fulfilled. (<http://www.usability.gov/how-to-and-tools/methods/use-cases.html>)
- (ii) **A use case is** a list of steps, typically defining interactions between a role and a system. (http://en.wikipedia.org/wiki/Use_case)
- (i) **A use case is** a formal way of representing how a business interacts with its environment. it summarized into a single picture. (<http://romisatriawahono.net/lecture/sad/romi-sad-05-implementation-march2014.pptx>)

What are Benefits of use cases?

- (i) **Use cases** add value because they help explain how the system should behave and in the process, they also help brainstorm what could go wrong. They provide a list of goals and this list can be used to establish the cost and complexity of the system. Project teams can then negotiate which functions become requirements and are built.

What Use Cases Include	What Use Cases Do NOT Include
<ul style="list-style-type: none">• Who is using the website• What the user want to do• The user's goal• The steps the user takes to accomplish a particular task• How the website should respond to an action	<ul style="list-style-type: none">• Implementation-specific language• Details about the user interfaces or screens.

(<http://www.usability.gov/how-to-and-tools/methods/use-cases.html>)

- (ii) With the help of use case diagram, you can discuss and communicate:
 - The scenarios in which your system or application interacts with people, organizations, or external systems.
 - The goals that it helps those actors achieve.
 - The scope of your system.

(<http://msdn.microsoft.com/en-us/library/dd409432.aspx>)