



PT. BERLIAN SISTEM INFORMASI



# ***OPERATING LEASE SUPPORT SYSTEM DEVELOPMENT***

## **FOR**



### ***Functional Specification***

#### ***A.1 Marketing Module***

**Revision 7.0**

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### Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
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## 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

Marketing module described about how to maintain data transaction on the marketing process which is utilized by functions in the system. On this module there's no integration with another system (such as 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 be specified what kind of 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 prototypes which have been already created. And, based on these things, we will develop the system.

The following is functionality of marketing module:

- ✓ Calculation of Refinance
  - a. Create new calculation  
To create a new calculation by filling out create calculation form. On this feature allowed saving calculation as draft or submitting a data to the next process.
  - b. Update calculation  
Update calculation by changing some fields on the edit form.
  - c. Submit calculation  
After calculation confirmed, calculation can be submitted to the next process.
  - d. Filter and sort calculation  
On this feature the calculation record can be filtered and sorted based on columns on top of the list.
  - e. View detail calculation  
To inspect a detail of calculation, this feature is able to display a calculation data. On this feature data is not able to edit.
  - f. Changes status of calculation  
To update status of record by click the button.
- ✓ Refinance Quotation
  - a. Create new quotation  
To create a new quotation by filling out create calculation form. On this feature allowed saving quotation as draft or submitting a data to the next process.

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- b. Update quotation  
Update quotation by changing some fields on the edit form.
  - c. Submit quotation  
After quotation confirmed, calculation can be submitted to the next process.
  - d. Filter and sort calculation  
On this feature the quotation record can be filtered and sorted based on columns on top of the list.
  - e. View detail quotation  
To inspect a detail of quotation, this feature is able to display a quotation data. On this feature data is not able to edit.
  - f. Changes status of quotation  
To update status of record by click the button.
  - g. Preview and print the Refinance quotation  
To preview and print the quotation result by click the button.
- ✓ Calculation of Operating Lease
- a. Create new calculation  
To create a new calculation by filling out create calculation form. On this feature allowed saving calculation as draft or submitting a data to the next process.
  - b. Update calculation  
Update calculation by changing some fields on the edit form.
  - c. Submit calculation  
After calculation confirmed, calculation can be submitted to the next process.
  - d. Filter and sort calculation  
On this feature the calculation record can be filtered and sorted based on columns on top of the list.
  - e. View detail calculation  
To inspect a detail of calculation, this feature is able to display a calculation data. On this feature data is not able to edit.
  - f. Changes status of calculation  
To update status of record by click the button.
  - g. Preview and print the proposal and calculation  
To preview and print the proposal and calculation result by click the button.
- ✓ Operating Lease Quotation
- a. Create new quotation  
To create a new quotation by filling out create calculation form. On this feature allowed saving quotation as draft or submitting a data to the next process.
  - b. Update quotation  
Update quotation by changing some fields on the edit form.
  - c. Submit quotation  
After quotation confirmed, calculation can be submitted to the next process.
  - d. Filter and sort calculation  
On this feature the quotation record can be filtered and sorted based on columns on top of the list.
  - e. View detail quotation  
To inspect a detail of quotation, this feature is able to display a quotation data. On this feature data is not able to edit.
  - f. Changes status of quotation

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- To update status of record by click the button.
- g. Preview and print the operating lease quotation  
To preview and print the operating lease quotation result by click the button.
- ✓ Agreement Information Inquiry
- a. Create new agreement  
To input data of agreement by fill out the form. This feature allows a user to save a data into database, after input on the agreement form.
- b. Update agreement information  
To update the agreement information by fill out the edit agreement form. This feature allows a user to changes a data on agreement information, and then saves into database.
- c. Submit agreement information  
After agreement confirmed, the data can be submitted to the next process.
- d. Filter and sort agreement information  
On this feature the agreement record can be filtered and sorted based on columns on top of the list.
- e. View detail agreement information  
To check and view the detail of agreement information, user can open details screen. On this features user only can viewing the data, (the data is not able to edit).
- f. Changes status of quotation  
After agreement was submitted, agreement can be confirm to validate or set to draft if the data still need to be update by user who initiate to create the agreement.
- g. Preview and print the operating lease quotation  
To preview and print the operating lease quotation result by click the button.

**1.3 Acronyms and abbreviations**

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

**1.4 References**

This functional scope refers “to be design” in the section A.1.Marketeting Module.

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## 2 Detail Specification

### 2.1 Calculation of Refinance

#### 2.1.1 Use case

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

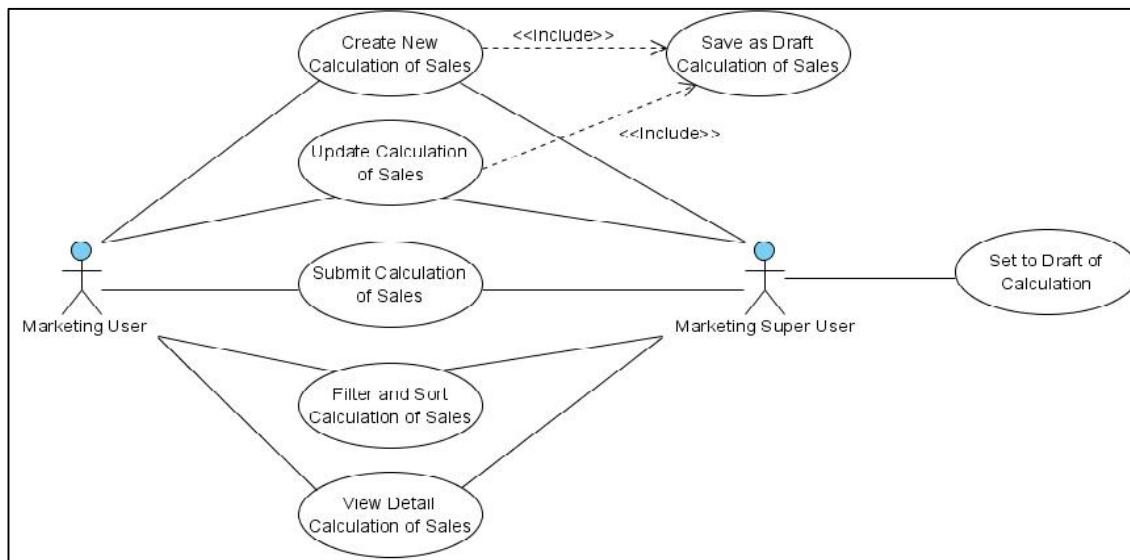


Figure 1 – Use case diagram of Calculation of Refinance

#### 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 actors and the system).

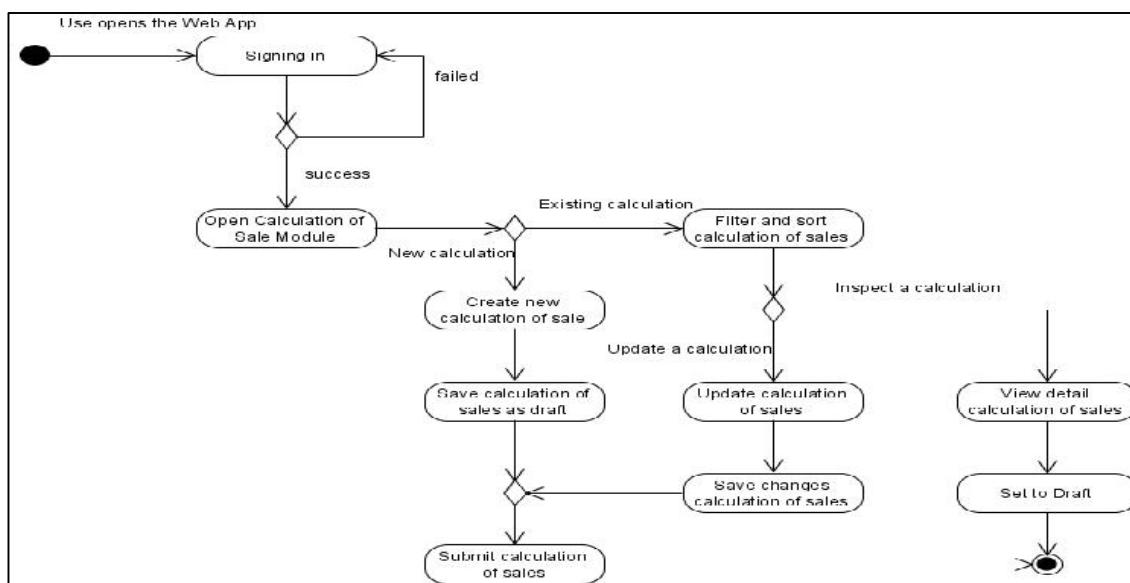


Figure 2 – Activity diagram of Calculation of Refine

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No.	Steps/ Operations	Actor/ People	Scenario
1	Signing in	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>Actor fills out sign in form by inputting user name and password.</li> <li>Actor clicks [sign in] button. System will check the account of user; if user account is already registered user will enter into the system. If doesn't user can return the step.</li> </ul>
2.	Open calculation of Refinance module	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>After login, actor can open calculation of Refinance module on the menu of system. After that, screen of calculation of Refinance will open.</li> <li>After screen opens, list of Refinance calculation will be shown and calculation data existing will be displayed.</li> </ul>
3.	Create new calculation	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>If calculation screen opens, actor can click [create]button to create new records of calculation and after that create calculation screen will open.</li> <li>Upon create calculation screen, actor can fill out the fields.</li> <li>To fill out lease contract information and product basic information, actor can click [...] button at field of agreement number reff. Upon clicking [...] button at look-up window will be shown. These windows have features to search and select the agreement. At least one agreement must be selected.</li> <li>Profit Amount and Total Amount will be calculated automatically, after fill out the calculation fields.</li> <li>The mandatory fields cannot be blank.</li> </ul>
4.	Save calculation as draft	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>After filling out the fields, actor can click [save as draft] button, if want to make a records as <u><b>draft</b></u>.</li> <li>After that, system will proceed to store a data into database and will automatically check a validity of data (such as; data type, mandatory data, and data length)</li> <li>If done, actor can click [Back] button to return to the list of Refinance calculation, then calculation data will be displayed.</li> </ul>
5	Submit calculation record	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>Once data is saved and data has been confirmed, actor can submit the record by clicking[Submit] button.</li> <li>After that system will set a calculation record as <u><b>submitted (or not draft)</b></u>.</li> <li>If done, actor can click back button to return to the list of Refinance calculation.</li> </ul>
6.	Update calculation records	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>On the calculation of Refinance screen actor can click [Edit] button to update the calculation record by editing data on the edit calculation screen.</li> <li>If there were calculation still draft, <i>marketing user</i> can click [edit] button on the right side of the records on the</li> </ul>

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			<p>list of Refinance calculation.</p> <ul style="list-style-type: none"> <li>If there were calculation record already submits and the status is <b>valid</b>, <i>marketing user</i> cannot click [edit] button to open edit calculation screen.</li> <li>If edit calculation screen opens, actor can edit a record by inputting a data on each of the fields.</li> <li>The mandatory fields cannot be blank.</li> </ul>
7.	Filter and sort calculation records	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>Actor can filter and sort the calculation record based on columns where displayed on the list of Refinance calculation.</li> <li>To filter calculation records, actor can enter keywords into the filter fields. If matched data founds, the filtered result will be displayed on list. If doesn't the list of Refinance calculation will be empty.</li> <li>To sort calculation records, actor can click header of column on the list table. After that the records will be sorted by ascending or descending, alternately.</li> <li>Upon select [record number filter]drop down list, actor can select a record number to display on the list of Refinance calculation. At least only one item can be selected.</li> </ul>
8.	View detail calculation record	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>On the calculation screen actor can open view detail calculation screen to inspect a data.</li> <li>On the list of Refinance calculation screen, actor can click [view detail] button, after that system will display a screen of calculation detail.</li> <li>On this screen, actor cannot do anything to edit of data. Only viewing calculation record.</li> <li>There are 2 conditions when calculation detail screen opens:             <ol style="list-style-type: none"> <li>If calculation status is still <b>draft</b> or already <b>valid</b>, [validate] button and [set to draft] button will be disappeared.</li> <li>If calculation status was already <b>submitted</b>, [validate] button and [set to draft] button will be shown.</li> </ol> </li> <li>If done, actor can click back button to return to the list.</li> </ul>
9	Set to draft of calculation	Marketing super user	<ul style="list-style-type: none"> <li>To do this process, actor should open calculation detail screen by clicking [view detail] button in the list of Refinance calculation screen. Once calculation detail screen opens, actor can change the status of calculation by clicking [set to draft] button. If calculation still need to revise and status still not valid yet, actor can change the calculation status from <b>submitted</b> to <b>draft</b>.</li> <li>After that, system will proceed automatically to change the status, and actor can click [Back] button to return to the list of Refinance calculation.</li> </ul>

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### 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 (submitted)	Submit	Validate
Marketing super user	Yes	Yes	Yes	Yes	Yes	Yes
Marketing user	Yes	Yes	Yes	No	Yes	No

The figure below is describing transition of Status that performed when people interact in a function. In this features, validation (validate and invalidate) process triggered on the Refinance quotation module. If the quotation already validate, so the status of calculation will be valid too, and vice versa.

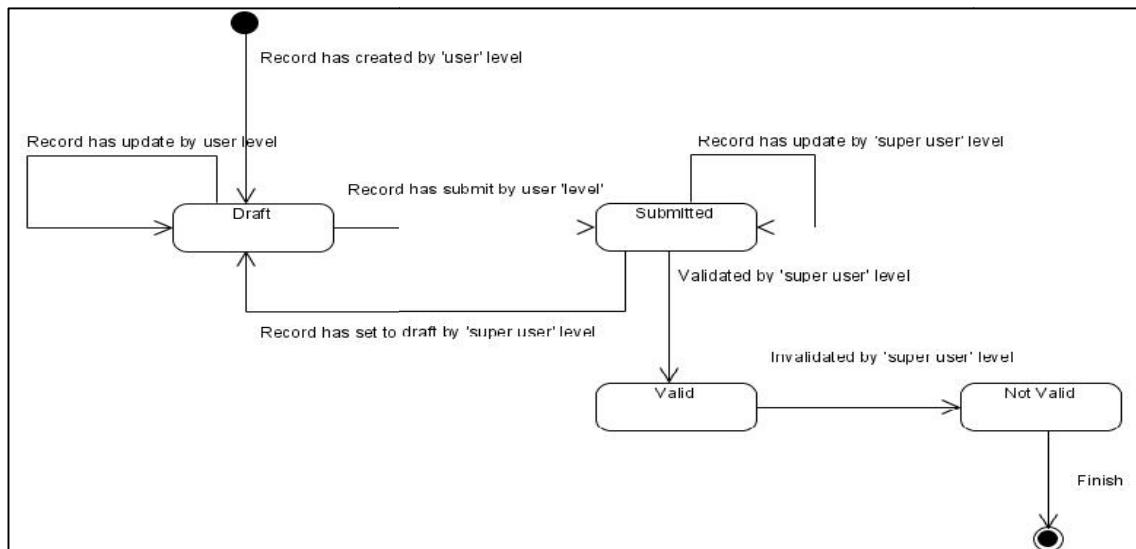


Figure 3 – Status diagram of Calculation of Refinance

### 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 Calculation of Refinance

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### 2.1.5 Screen design

#### 2.1.5.1 List of Refinance calculation

This screen is designed to display a calculation of Refinance list. On this list actor can filter and sort a calculation records. And also, actor can open another screen to create new calculation record, update calculation record, and view detail of calculation record.

The screenshot shows a web-based application interface for managing sales calculations. At the top left, there's a header 'Calculation of sales'. Below it, a blue button labeled '+Create New' is highlighted with a red box and an arrow pointing to the text 'To create new calculation'. To the right of the button is a search bar with placeholder text 'Search...'. Below the search bar, there's a dropdown menu showing 'Show 10 entries' with an arrow pointing to the text 'Displaying calculation list'. To the right of the dropdown is a red box with an arrow pointing to the text 'To filter calculation record'. The main area contains a table with the following columns: COS Number, Customer Name, Agreement Number ref., Product, Quantity, Amount, Created By, Created Date, Status, and Action. Two rows of data are visible:

COS Number	Customer Name	Agreement Number ref.	Product	Quantity	Amount	Created By	Created Date	Status	Action
COS0406901	PT. Maju Jaya	000.00074 /01/03/2012	Mitsubishi Triton GLX SC DA9365CE	1 Unit	155,106,364	John Smith	01/01/2014	submitted	
COS0406902	PT. Sejahtera Jaya	000.00074 /01/03/2012	Mitsubishi Triton GLX SC DA9365CE	1 Unit	155,106,364	John Smith	01/01/2014	submitted	

At the bottom left of the table area, there's a red box with an arrow pointing to the text 'Showing 1 to 2 of 2 entries'. To the right of the table, there's a red box with an arrow pointing to the text 'Data paging information'. At the very bottom right, there are navigation buttons for 'First', 'Previous', 'Next', and 'Last'.

At the bottom of the page, there's a footer bar with the text 'Prototype - Final/dashboard.htm'.

Figure 5 – List of Refinance Calculation Screen

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### 2.1.5.2 Create new calculation of Refinance

This screen is designed to create new calculation of Refinance record. After filling out necessary data on the screen, actor can store a data into the system by clicking the action button.

The screenshot shows the 'Create New Calculation of Refinance' screen. The interface is organized into several sections:

- Header:** Functional Specification: A.1 Marketing Module
- Navigation:**
  - < Back (highlighted with a red box)
  - Return back to list of sales calculation (highlighted with a red box)
  - To entry a calculation data (highlighted with a red box, pointing to a button)
- Lease Contract Information:**
  - Number (input field)
  - Buyer / Customer (input field)
  - Agreement Number Ref. (input field)
  - Customer Name Ref. (input field)
  - Maintenance Type (input field)
  - Monthly Mileage (input field)
  - Expected Mileage (input field)
  - Expiration Date (mm/dd/yyyy) (input field)
  - Purchase Requirement After Lease (input field)
  - Residual Value (input field)
- Product Basic Information:**
  - Brand Code (input field)
  - Brand Name (input field)
  - Product Name (input field)
  - Model Year (input field)
  - Schedule Date for Registration (mm/dd/yyyy) (input field)
  - Displacement (input field)
  - Transmission (input field)
  - Fuel Type (input field)
  - Maximum Loading Capacity (input field)
  - Product Category (input field)
  - Special OP (input field)
  - Registration Date (mm/dd/yyyy) (input field)
  - Usage (input field)
  - Location (input field)
  - Number Plate Color (input field)
- Calculation:**

Actual Residual Value	0.00
Unit Quantity	0.00
Commission	0.00
Input Other Expense	0.00
Input Other Expense 1	0.00
Input Other Expense 2	0.00
Input Other Expense 3	0.00
Total Amount	0.00
- Profits:**

Item	Profit Amount
Profits Total Amount - Actual Residual Value	0.00
- Footer:**
  - Save as Draft (button)
  - Submit (button)
  - To save or submit calculation data (button)

Figure 6 – Screen of Create New Calculation of Refinance

## Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	01 July 2015
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### 2.1.5.3 Update calculation of Refinance

This screen is designed to update calculation of Refinance. After changing some data on the screen, actor can store a data into the system by clicking the action button.

The screenshot shows a web-based form for updating lease calculations. The form is divided into several sections:

- Lease Contract Information:** Contains fields for Agreement Number Ref., Customer Name Ref., Maintenance Type, Monthly Mileage, Expected Mileage, Expiration Date, Purchase Requirement After Lease, and Residual Value.
- Product Basic Information:** Contains fields for Brand Code, Brand Name, Product Name, Model Year, Schedule Date for Registration, Displacement, Transmission, Fuel Type, Maximum Loading Capacity, Product Category, Special OP, Registration Date, Usage, Location, and Number Plate Color.
- Calculation:** Contains fields for Actual Residual Value, Unit Quantity, Comission, Profits Total Amount, and a table for Profits (Item and Amount).
- Action Buttons:** At the bottom left are 'Save Changes' and 'Submit' buttons. To the right of these buttons is a label 'To save or submit of data'.

Red boxes highlight the following elements:

- The 'Save Changes' button.
- The 'Submit' button.
- The 'To save or submit of data' label.

Figure 7 – Screen of Update Calculation of Refinance

## Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	01 July 2015
Status	Baseline	Version	7.0
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### 2.1.5.4 View detail calculation of Refinance

This screen is designed to view detail a calculation of Refinance. On this screen actor can change status of a Refinance calculation by clicking action button.

The screenshot shows a form for viewing and managing a Refinance calculation. Key elements include:

- Header:** Includes navigation buttons (Back, Home), search fields (Return back to list of sales calculation), and status indicators (Detail calculation, Status of calculation).
- Contract Information:** Displays details like Agreement Number Reff., Customer Name Reff., Maintenance Type, Monthly Mileage, and Purchase Requirement After Lease.
- Product Basic Information:** Lists various vehicle specifications such as Brand, Model Year, Fuel Type, and Registration Date.
- Calculation:** Shows financial details like Actual Residual Value, Unit Quantity, Comission, and Example Other Expense.
- Profits:** Displays Profit Amount for items like Profits Total Amount - Actual Residual Value.
- Footer:** Contains a 'Validate' button and a tooltip explaining its function.

Figure 8 – Screen of View Detail Calculation of Refinance

### Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	01 July 2015
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#### 2.1.6 Screen features

Features	Description
[Filter and sort]	To perform data filtering and data sorting of calculation records.
[Create new]	To create new calculations by entering data on create new calculation form.
[Save as draft] or [Set to draft]	To save a calculation as a draft.
[Submit]	To submit a calculation record as a final.
[Save changes]	To update changes when editing calculation record.
[View detail]	To inspect a detail calculation records by opening a calculation detail form.
[Edit]	To update of calculation record.

#### 2.1.7 Data structure

Field	Data Type	Data Length	Format	Mandatory
<b>Calculation Identity</b>				
Calculation of Refinance Number	Text	50	N/A	Yes
Buyer/ Customer Name	Text	200	N/A	Yes
<b>Lease Contract Information</b>				
Agreement Number Reff.	Text	50	N/A	Yes
Customer Name Reff.	Text	200	N/A	Yes
Maintenance Type	Text	100	N/A	No
Monthly Mileage	Number	N/A	###,###,##.##	No
Expected Mileage	Number	N/A	###,###,##.##	No
Expiration Date	Date	N/A	mm-dd-yyyy	No
Purchase Requirement After Refinance	Text	200	N/A	No
Residual Value	Decimal	18,3	###,###,##.##	No
<b>Product Basic Information</b>				
Product Registration Code	Text	50	N/A	Yes
Product Type	Text	100	N/A	Yes
Product Category	Text	50	N/A	Yes
Product Brand Code	Text	50	N/A	Yes
Product Brand Name	Text	100	N/A	Yes
Product Model Code	Text	100	N/A	Yes
Product Model Name	Text	100	N/A	Yes
Product Model Type	Text	100	N/A	Yes
Product Model Year	Date	N/A	mm-yyyy	Yes
Transmission	Text	100	N/A	Yes
Fuel Type	Text	100	N/A	Yes
Displacement (cc)	Text	100	N/A	Yes

**Functional Specification: A.1 Marketing Module**

Project	Operating Lease Support System Development			
Author	Deny Prasetya		Date	01 July 2015
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Maximum Loading Capacity	Number	50	N/A	No
Product Category	Text	100	N/A	No
Number Plate Color	Text	100	N/A	No
Usage	Text	100	N/A	No
Location	Text	100	N/A	No
Schedule Date for Registration	Decimal	18,3	mm-dd-yyyy	No
Registration Date	Date	N/A	mm-dd-yyyy	No
<b>Calculation</b>				
Actual Residual Value	Decimal	18,3	###,###,###.##	Yes
Unit Quantity	Decimal	18,3	###,###,###.##	Yes
Commission	Decimal	18,3	###,###,###.##	No
Other Expense 1	Decimal	N/A	###,###,###.##	No
Other Expense 2	Decimal	18,3	###,###,###.##	No
Other Expense 3	Decimal	18,3	###,###,###.##	No
Total Amount	Decimal	18,3	###,###,###.##	Yes
Profit Amount	Decimal	18,3	###,###,###.##	Yes
<b>Audit Trail</b>				
Create By	Text	100	N/A	Yes
Create Date	Date time	N/A	mm-dd-yyyy:hh-mm:ss	No
Last Modified By	Text	100	N/A	Yes
Last Modified	Date time	N/A	mm-dd-yyyy:hh-mm:ss	No
<b>Status Management</b>				
Is Deleted	Yes/No	N/A	N/A	Yes
Is Draft	Yes/No	N/A	N/A	Yes
Is Submitted	Yes/No	N/A	N/A	Yes
Is Valid	Yes/No	N/A	N/A	Yes

## Functional Specification: A.1 Marketing Module

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## 2.2 Refinance Quotation

### 2.2.1 Use case

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

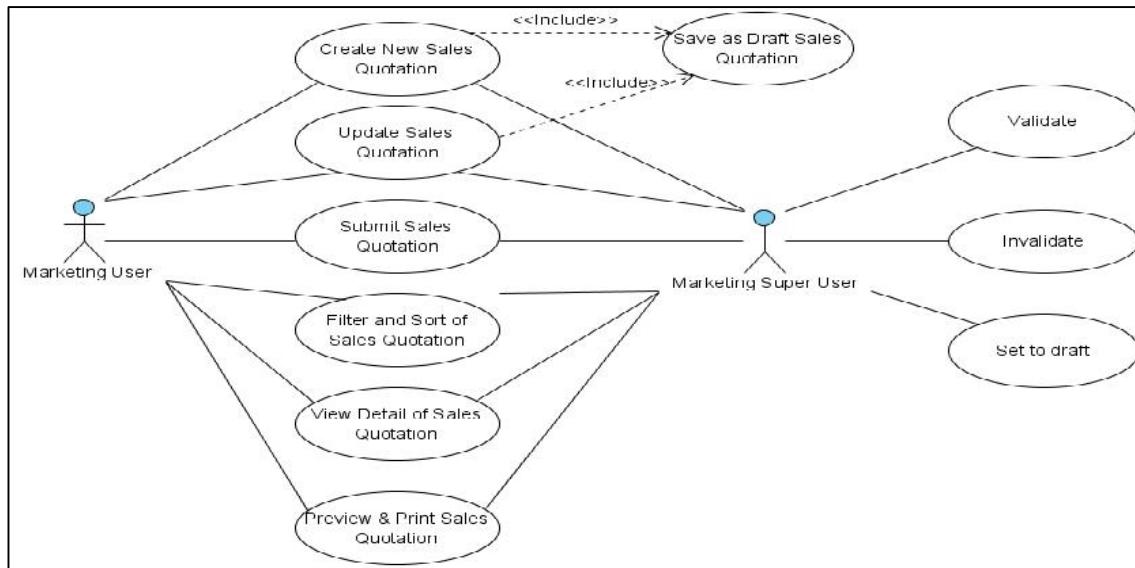


Figure 9 – Use case diagram of Refinance Quotation

### 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 actors and the system).

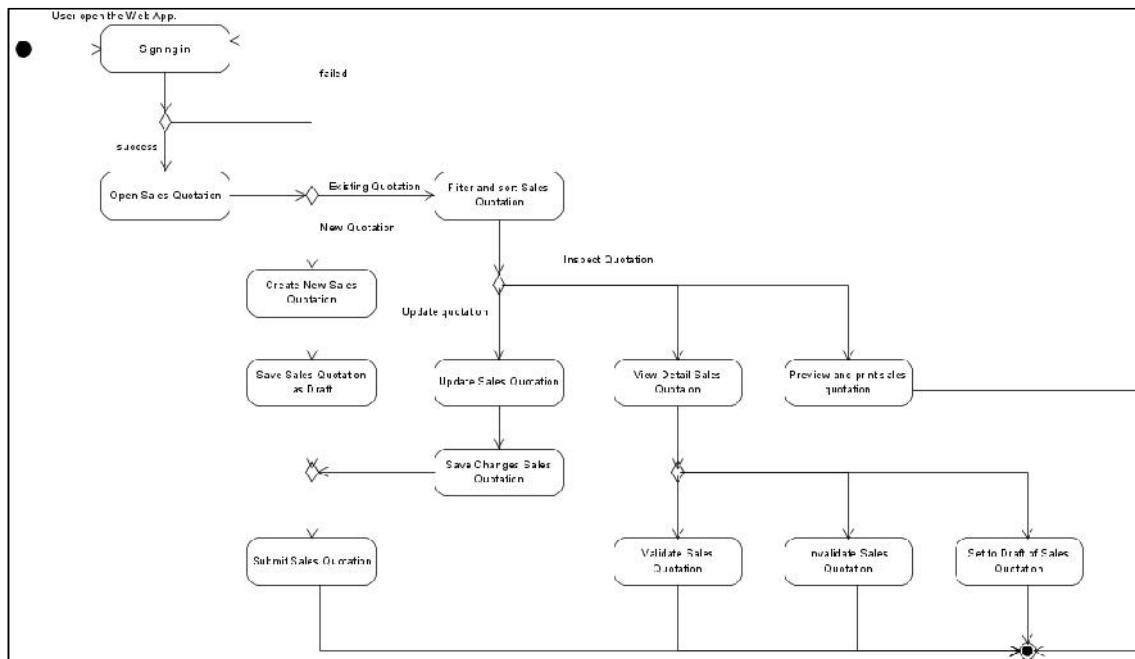


Figure 5 – Activity diagram of Refinance Quotation

### Functional Specification: A.1 Marketing Module

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No.	Steps/ Operations	Actor/ People	Scenario
1	Signing in	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>Actor fills out sign in form by inputting user name and password.</li> <li>Actor clicks [sign in] button. System will check the account of user; if user account is already registered user will enter into the system. If doesn't user can return the step.</li> </ul>
2.	Open calculation of Refinance module	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>After login, actor can open Refinance quotation module on the menu of system. After that, the Refinance quotation screen will open.</li> <li>After screen opens, Refinance quotation list will be shown and existing data will be displayed.</li> </ul>
3.	Create new Refinance quotation	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>If list of Refinance quotation screen opens, actor can click [create] button to create new quotation and after that create Refinance quotation screen will open. On this screen actor can specify the calculation records as basis to create the Refinance quotation.</li> <li>To specify the calculation records, click [...] button at calculation number, after that look-up window will be shown. These windows have features to search and select the calculation. At least one calculation must be selected. Once it done, actor can fill out other information on each field.</li> <li>The mandatory fields cannot be blank.</li> </ul>
4.	Save Refinance quotation as draft	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>After filling out the fields, actor can click [save as draft] button, if want to make a records as <b><u>draft</u></b>.</li> <li>After that, system will proceed to store a data into database and will automatically check a validity of data (such as; data type, mandatory data, and data length)</li> <li>If done, actor can click [Back] button to return to the list of Refinance calculation, then Refinance quotation data will be displayed.</li> </ul>
5	Submit Refinance quotation record	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>Once data is saved and data has been confirmed, actor can submit the record by click [Submit] button.</li> <li>After that system will set a Refinance quotation record as <b><u>submitted (or not draft)</u></b>.</li> <li>If done, actor can click back button to return to the list of Refinance quotation.</li> </ul>
6.	Update Refinance quotation records	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>On the list of Refinance quotation screen actor can click [Edit] button to update the record by editing data on the edit screen.</li> <li>If the quotations still <b><u>draft</u></b>, <i>marketing user</i> can click [edit] button on the right side of the records on list of Refinance quotation screen.</li> <li>If the quotation records already <b><u>submit</u></b> and the status is <b><u>valid</u></b>, <i>marketing user</i> cannot click [edit] button to open edit Refinance quotation screen.</li> </ul>

**Functional Specification: A.1 Marketing Module**

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			<ul style="list-style-type: none"> <li>If edit screen opens, actor can edit a record by inputting a data on each of the fields.</li> <li>The mandatory fields cannot be blank.</li> </ul>
7.	Filter and sort Refinance quotation records	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>Actor can filter and sort the record based on columns where displayed on the list.</li> <li>To filter the records, actor can enter keywords into the filter fields. If matched data founds, the result will be displayed on the list. If doesn't, the list will be empty.</li> <li>To sort the records, actor can click header of column on the list table. After that the records will be sorted by ascending or descending, alternately.</li> <li>Upon select [record number filter]drop down list, actor can filter a record number to display on the list. At least only one item can be selected.</li> </ul>
8.	View detail Refinance quotation record	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>On the list of Refinance quotation screen actor can view detail a Refinance quotation on the view detail screen.</li> <li>To open view detail screen, actor can click [view detail] button, after that system will display a detail of Refinance quotation. On this screen, actor cannot do anything to edit of data. Only viewing the record.</li> <li>There are2 conditions when view detail screen opens:             <ol style="list-style-type: none"> <li>If the Refinance quotation status is still <b>draft</b> or already <b>valid</b>, [validate] button and [set to draft] button will be disappeared.</li> <li>If Refinance quotation status was already <b>submitted</b>,[validate] button and [set to draft] button will be shown.</li> </ol> </li> <li>If done, actor can click [Back] button to return to the list.</li> </ul>
9	Validate Refinance quotation	Marketing super user	<ul style="list-style-type: none"> <li>To do this process, actor should open view detail screen by clicking [view detail] button on the list. Once view detail screen opens, actor can change the status by clicking [validate] button. If Refinance quotation is already confirmed. After status changes to <b>valid</b>, actor cannot rollback the status to <b>submitted</b> or <b>draft</b>.</li> <li>After that, system will proceed automatically to change the status, and actor can click [Back] button to return to the list.</li> </ul>
10	Invalidate Refinance quotation	Marketing super user	<ul style="list-style-type: none"> <li>For the worst case, if Refinance quotation were made inoperative/ not applicable, actor can change the status from <b>valid</b> to <b>not valid</b>.</li> <li>To do this process, actor should open view detail screen by clicking [view detail] button on the list. Once view detail screen opens, actor can change the status by clicking [Invalidate] button.</li> <li>After that, system will proceed automatically to change the status, and actor can click [Back] button to return to the list.</li> </ul>

## Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
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11	Set to Draft Refinance quotation	Marketing super user	<ul style="list-style-type: none"> <li>To utilize this feature; If Refinance quotation still need to be revised and status still not valid yet, actor can change the status from <b>submitted</b> to <b>draft</b>.</li> <li>To do this process, actor should open view detail screen by clicking [view detail] button on the list. Once view detail screen opens, actor can change the status by clicking [validate] button or [set to draft] button (depending by status that needs to change).</li> <li>After that, system will proceed automatically to change the status, and actor can click [Back] button to return to the list.</li> </ul>
12	Preview and print Refinance quotation	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>To do this process, actor can select the quotation record by clicking [Print preview] button, and after that the preview screen will be opened.</li> <li>Once preview screen opens, actor can click [Print] button to print the report.</li> <li>If done, actor can click [Back] button to return to the list.</li> </ul>

### 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 (submitted)	Submit	Validate	Preview & Print
Marketing super user	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Marketing user	Yes	Yes	Yes	No	Yes	No	Yes

The figure below is describing transition of Status that performed when people interact in a function. In this features, validation (validate and invalidate) process triggered on the operating lease quotation module. If the quotation already validate, so the status of Refinance quotation will be valid too, and vice versa.

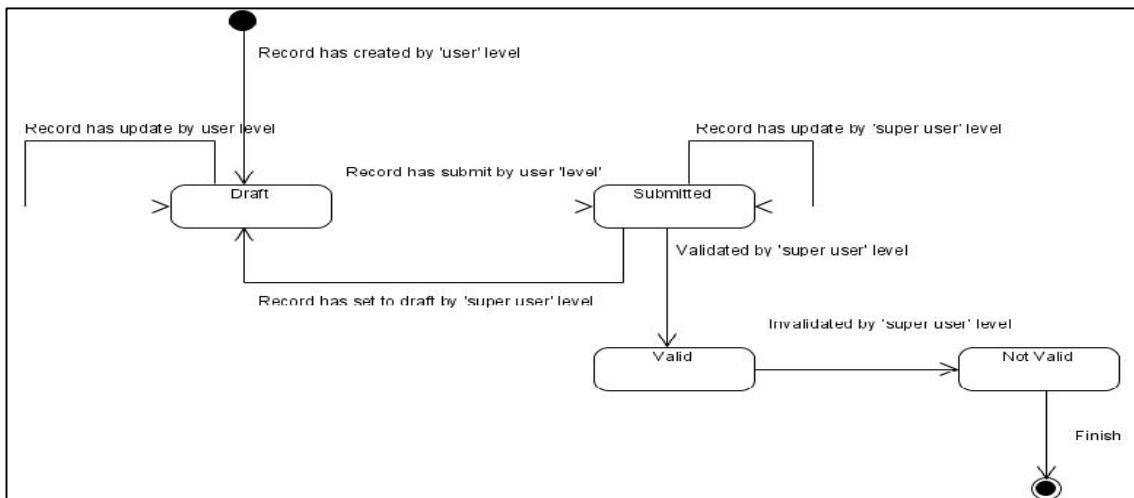


Figure 10 – Status diagram of Calculation of Refinance

Functional Specification: A.1 Marketing Module			
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## 2.2.4 Sitemap design

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



Figure 11 – Sitemap design of Refinance Quotation

## 2.2.5 Screen design

### 2.2.5.1 List of Refinance quotation

This screen is designed to display a list of Refinance quotation. On this list actor can filter and sort a calculation records. And also, actor can open another screen to create new quotation record, update quotation record, and view detail quotation record.

The screenshot shows the 'Sales Quotation' list screen. Several UI elements are annotated with red boxes and arrows:

- + Create**: An arrow points to the 'Create' button in the top-left corner, labeled 'To create new sales quotation'.
- List of Sales Quotation**: An arrow points to the title bar, labeled 'To filter sales quotation record'.
- Show 10 entries**: An arrow points to the dropdown menu for selecting the number of entries to display, labeled 'To filter a number of record filter'.
- To filter sales quotation record**: An arrow points to the search input field at the bottom right, labeled 'To filter sales quotation record'.
- To open edit or view detail sales quotation**: An arrow points to the 'Edit' and 'View' icons in the 'Action' column for each row, labeled 'To open edit or view detail sales quotation'.
- Displaying list**: An arrow points to the main table area, labeled 'Displaying list'.
- Action**: An arrow points to the column containing icons for edit, view, and delete operations, labeled 'Action'.
- Data paging information**: An arrow points to the bottom left, labeled 'Showing 1 to 5 of 6 entries'.
- To open paging the records**: An arrow points to the bottom right, labeled 'To open paging the records'.
- First Previous 1 Next Last**: An arrow points to the navigation buttons at the bottom right, labeled 'First Previous 1 Next Last'.

Number	Buyer / Customer	Product Name	Expected Delivery	Delivery Place	Validity Month	Status	Action
A001	PT. Maju Sejahtera	Example Product	20/4/01/01	Jakarta	January	submitted	
A002	PT. Maju Mundur	Example Product	20/4/01/01	Jakarta	January	valid	
A003	PT. Maju Mundur	Example Product	20/4/01/01	Jakarta	January	submitted	
A004	PT. Maju Mundur	Example Product	20/4/01/01	Jakarta	January	valid	
A005	PT. Maju Mundur	Example Product	20/4/01/01	Jakarta	January	submitted	
A006	PT. Maju Mundur	Example Product	20/4/01/01	Jakarta	January	valid	

Figure 62 – List of Refinance Quotation Screen

## Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
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### 2.2.5.2 Create new Refinance quotation

This screen is designed to create new Refinance quotation record. After filling out necessary data on the screen, actor can store a data into the system by clicking the action button.

The screenshot shows a form for creating a new Refinance quotation. The form is organized into two main sections: 'Product Basic Information' and 'Quotation Information'. The 'Product Basic Information' section contains fields for Number (Number), Buyer / Customer (Buyer / Customer), Brand Code (Brand Code), Brand Name (Brand Name), Product Name (Product Name), Model Year (Model Year), Schedule Date for Registration (mm/dd/yyyy), Displacement (Displacement), Transmission (Transmission), Fuel Type (Fuel Type), Maximum Loading Capacity (Maximum Loading Capacity), Product Category (Product Category), Special OP (Special OP), Registration Date (mm/dd/yyyy), Registration Date (Registration Date), Usage (City), Location (Location), and Number Plate Color (Black). The 'Quotation Information' section contains fields for Validity Month (Validity Month), Terms (Terms), Expected Delivery (dd/mm/yyyy) (Expected Delivery (dd/mm/yyyy)), Down Payment (Down Payment), Delivery Place (Delivery Place), and Remarks (Remarks). At the bottom left, there are 'Save as Draft' and 'Submit' buttons. A red box highlights the 'Save as Draft' button, and another red box highlights the 'Submit' button. Red arrows point from these highlighted buttons to the text 'To save or submit calculation data' located at the bottom right of the form area.

Figure 73 – Screen of Create New Refinance Quotation

## Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
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### 2.2.5.3 Update Refinance quotation

This screen is designed to update Refinance quotation. After changes some data on the screen, actor can store a data into the system by click the action button.

The screenshot shows the 'Update Refinance quotation' screen. At the top, there's a navigation bar with a 'Back' button, a link to 'Return back to list of sales quotation', and a 'Status of sales quotation' section with a 'Draft' button. Below this, there are sections for 'Number' and 'Buyer / Customer' with example placeholder text. The main body is divided into two main sections: 'Product Basic Information' and 'Quotation Information'. The 'Product Basic Information' section contains fields for Brand Code, Brand Name, Product Name, Model Year, Schedule Date for Registration, Displacement, Transmission, Fuel Type, Maximum Loading Capacity, Product Category, Special OP, Registration Date, Usage, Location, and Number Plate Color. The 'Quotation Information' section contains fields for Validity Month, Terms, Expected Delivery, Down Payment, Delivery Place, and Remarks. At the bottom, there are 'Save Changes' and 'Submit' buttons, with a note 'To save or submit of data' between them.

Figure 84 – Screen of Update Refinance Quotation

## Functional Specification: A.1 Marketing Module

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### 2.2.5.4 View detail Refinance quotation

This screen is designed to view detail Refinance quotation. On this screen actor can change status of a calculation of Refinance by clicking action button.

Back

Return back to list of sales quotation

Status of sales quotation

submitted

Created by: Abdul Somad Zaini      Created Date: 01/01/2014      Last Modified By: Abdul Somad Zaini      Last Modified Date: 01/01/2014

Number      Buyer / Customer  
Example      Example

Product Basic Information

Brand Code	Brand Name	Product Name
Example	Example	Example
Model Year	Schedule Date for Registration (mm/dd/yyyy)	Displacement
Example	Example	Example
Transmission	Fuel Type	Maximum Loading Capacity
Example	Example	Example
Product Category	Special OP	Registration Date (mm/dd/yyyy)
Example	Example	Example
Usage	Location	Number Plate Color
Example	Example	Example

Quotation Information

Validity Month	Terms	Expected Delivery (dd/mm/yyyy)
Example	Example	Example
Down Payment	Delivery Place	Remarks
Example	Example	Example

Validate

To changes a status of sales quotation record

Figure 95 – Screen of View Detail Refinance Quotation

### Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
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#### 2.2.5.5 Preview and print Refinance quotation

This screen is designed to view report Refinance quotation. On this screen actor can print and save report as pdf or excel file by clicking action button.

**Refinance Quotation**

Save As button

Print button

Find | Next

**DIPOL STAR FINANCE**  
Solusi Kredit Otomatis

SENTRAL SENAYAN 2, 3RD FLOOR. JL. ASIA AFRIKA No. 8. SENAYAN, JAKARTA  
Tel: (021) 57954100, Fax: (021) 5795 4075

Used Car Sales Quotation

To: \_\_\_\_\_ Date: \_\_\_\_\_  
No. \_\_\_\_\_

We thank you for requesting a quotation us and submit followings for your consideration and approval.

Validity: Within one month after the date.

(1) Description of the Vehicle Information:

Manufacture/Name	
Grade	Year
Model	Engine Number
Transmission	Police Number
Color	Odometer Reading (Km)
Passanger	Payload
Accessories and Options	

(2) Terms

Exact Sales Amount	(3) Expected Delivery Date
Down Payment	
Payment	

(4) Delivery Place

(5) Remarks

We will be happy to supply any further information you may need and trust that you call on us to fill your order, which will receive our prompt and careful attention.

PT. Dipo Star Finance

We agreed and accepted this Quotation

Figure 106 – Screen of Refinance Quotation Report

### Functional Specification: A.1 Marketing Module

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### 2.2.6 Screen features

Features	Description
[Filter and sort]	To perform data filtering and data sorting of calculation records.
[Create new]	To create new Refinance quotations by entry data on create new form.
[Save as draft] or [Set to draft]	To save a quotation as a draft.
[Submit]	To submit a quotation record as a final.
[Save changes]	To update of changes when editing Refinance quotation record.
[View detail]	To inspect a detail Refinance quotation records by opens a view detail form.
[Edit]	To update of Refinance quotation record.
[Validate]	To validate of Refinance quotation.
[Preview and Print]	To preview and print the report.

### 2.2.7 Data structure

Field	Data Type	Data Length	Format	Mandatory
<b>Calculation Identity</b>				
Calculation of Refinance Number	Text	50	N/A	Yes
Buyer/ Customer Name	Text	100	N/A	Yes
<b>Product Basic Information</b>				
Product Registration Code	Text	50	N/A	Yes
Product Type	Text	100	N/A	Yes
Product Category	Text	50	N/A	Yes
Product Brand Code	Text	50	N/A	Yes
Product Brand Name	Text	100	N/A	Yes
Product Model Code	Text	100	N/A	Yes
Product Model Name	Text	100	N/A	Yes
Product Model Type	Text	100	N/A	Yes
Product Model Year	Date	N/A	mm-yyyy	Yes
Transmission	Text	100	N/A	Yes
Fuel Type	Text	100	N/A	Yes
Displacement (cc)	Text	100	N/A	Yes
Maximum Loading Capacity	Number	50	N/A	No
Product Category	Text	100	N/A	No
Number Plate Color	Text	100	N/A	No
Usage	Text	100	N/A	No
Location	Text	100	N/A	No
Schedule Date for Registration	Decimal	18,3	mm-dd-yyyy	No

**Functional Specification: A.1 Marketing Module**

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Registration Date	Date	N/A	mm-dd-yyyy	No
<b>Quotation Information</b>				
Valid Until	Date	N/A	mm-dd-yyyy	No
Terms	Text	200	N/A	Yes
Expected Delivery Date	Date	N/A	mm-dd-yyyy	No
Down Payment	Decimal	18,3	###,###,##.##	No
Delivery Place	Text	100	N/A	No
Remarks	Text	200	N/A	No
<b>Audit Trail</b>				
Create By	Text	100	N/A	Yes
Create Date	Date time	N/A	mm-dd-yyyy:hh-mm:ss	No
Last Modified By	Text	100	N/A	Yes
Last Modified	Date time	N/A	mm-dd-yyyy:hh-mm:ss	No
<b>Status Management</b>				
Is Deleted	Yes/No	N/A	N/A	Yes
Is Draft	Yes/No	N/A	N/A	Yes
Is Submitted	Yes/No	N/A	N/A	Yes
Is Valid	Yes/No	N/A	N/A	Yes

## Functional Specification: A.1 Marketing Module

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### 2.3 Calculation of Operating Lease

#### 2.3.1 Use case

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

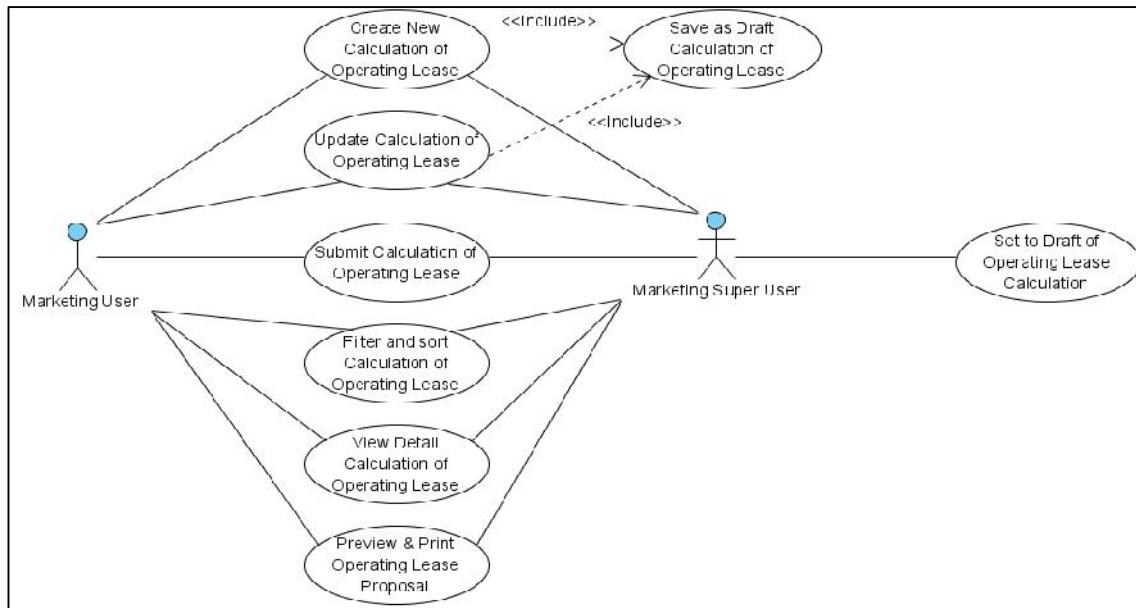


Figure 17 – Use case diagram of Calculation of Operating Lease

#### 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 actors and the system).

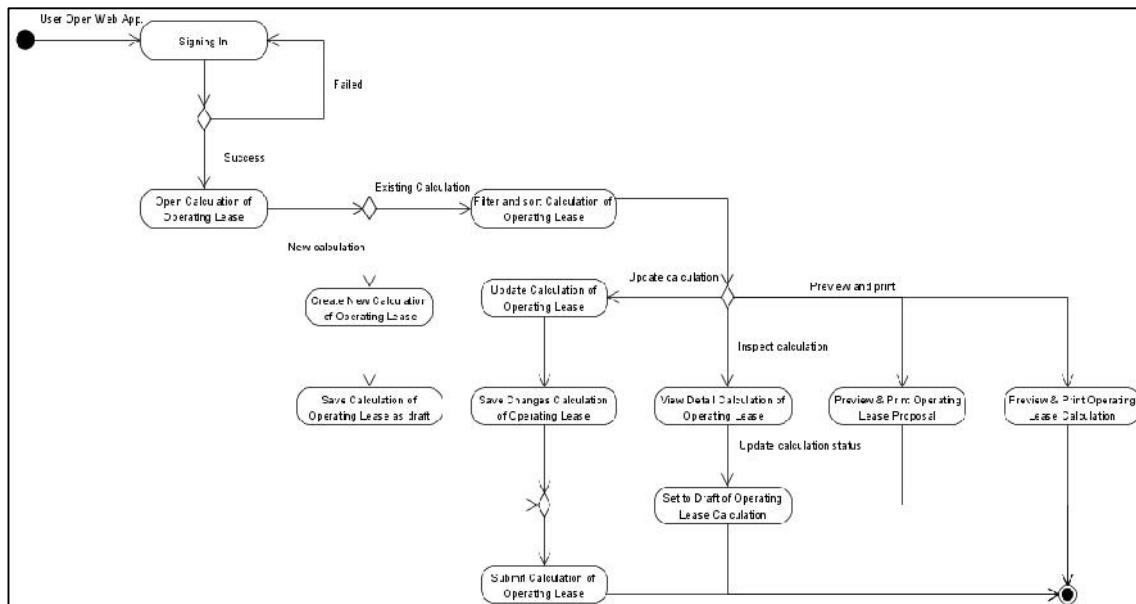


Figure 11 – Activity diagram of Calculation of Operating Lease

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No.	Steps/ Operations	Actor/ People	Scenario
1	Signing in	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>Actor fills out sign in form by inputting user name and password.</li> <li>Actor clicks [sign in] button. System will check the account of user; if user account is already registered user will enter into the system. If doesn't user can return the step.</li> </ul>
2.	Open calculation of operating lease module	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>After login, actor can open calculation of operating lease module on the menu of system. After that, screen of calculation of operating lease will open.</li> <li>After screen opens, list of operating lease calculation will be shown and calculation data existing will be displayed.</li> </ul>
3.	Create new calculation of operating lease	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>If calculation screen opens, actor can click [create] button to create new records of calculation and after that create calculation screen will open.</li> <li>Once create calculation opens, the actors can fill out a form that is divided into 5 steps:           <ol style="list-style-type: none"> <li>Step-1; on this step product information and basic lease information should be identified first before continuing to the next step. To fill out product information and customer field actor can click [...] button at the fields. Upon clicking [...] button at look-up window will be shown. These windows have features to search and select the record. At least one record must be selected. On this step actor cannot move to the next step, if data has not been saved as draft. If it is done, click [next step] button to continue to Step-2 screen.</li> <li>Step 2; basic cost condition and finance condition can be identified on this screen. Data can be input manually one by one. If it is done, click [next step] button to continue to Step-3</li> <li>Step-3; if maintenance type selected is other than non-maintenance, cost maintenance can be identified by input manually. Total Maintenance Cost will be calculated automatically. If it is done, click [next step] button to continue to Step-4 screen.</li> <li>Step-4, on this screen insurance data should be identified by input manually. Total insurance fee will be calculated automatically. If it is done, click [next step] button to continue to last screen.</li> <li>On the Step-5, this screen is final step, after fill out</li> </ol> </li> </ul>

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			<p>the calculation fields on the Step-1 to Step-4, the calculation result will be displayed can calculated automatically.</p> <ul style="list-style-type: none"> <li>• The mandatory fields cannot be blank.</li> <li>• If done, actor can click [Back] button to return to the list of operating lease calculation, then calculation data will be displayed.</li> </ul>
4.	Save calculation of operating lease as draft	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>• After filling out the fields on the Step-1, actor can click [save as draft] button, if want to make a records as <b><u>draft</u></b>. After that inputting data process can be continued to another screen.</li> <li>• Once [save as draft] button clicking, system will proceed to store a data into database and will automatically check a validity of data (such as; data type, mandatory data, and data length)</li> <li>• If done, actor can click [Back] button to return to the list of Refinance calculation, then calculation data will be displayed.</li> </ul>
5	Submit calculation of operating lease	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>• Once data is saved and data has been confirmed, actor can submit the record by clicking [Submit] button.</li> <li>• After that system will set a calculation record as <b><u>submitted (or not draft)</u></b>.</li> <li>• If done, actor can click [Back] button to return to the list of operating lease calculation, then calculation data will be displayed.</li> </ul>
6.	Update calculation of operating lease	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>• On the calculation of Refinance screen actor can click [Edit] button to update the calculation record by editing data on the edit calculation screen.</li> <li>• If there were calculation still draft, <i>marketing user</i> can click [edit] button on the right side of the records on the list of operating lease calculation.</li> <li>• If there were calculation record already submits and the status is <b><u>valid</u></b>, <i>marketing user</i> cannot click [edit] button to open edit calculation screen.</li> <li>• If edit calculation screen opens, actor can edit a record by inputting a data on each of the fields.</li> <li>• The mandatory fields cannot be blank.</li> </ul>
7.	Filter and sort calculation of operating lease	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>• Actor can filter and sort the calculation record based on columns where displayed on the list of operating lease calculation.</li> <li>• To filter calculation records, actor can enter keywords into the filter fields. If matched data founds, the filtered</li> </ul>

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			<p>result will be displayed on list. If doesn't the list of operating lease calculation will be empty.</p> <ul style="list-style-type: none"> <li>• To sort calculation records, actor can click header of column on the list table. After that the records will be sorted by ascending or descending, alternately.</li> <li>• Upon select [record number filter]drop down list, actor can select a record number to display on the list of operating lease calculation. At least only one item can be selected.</li> </ul>
8.	View detail calculation of operating lease	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>• On the calculation screen actor can open view detail calculation screen to inspect a data.</li> <li>• On the list of Refinance calculation screen, actor can click [view detail] button, after that system will display a screen of calculation detail.</li> <li>• On this screen, actor cannot do anything to edit of data. Only viewing calculation record.</li> <li>• There are2 conditions when calculation detail screen opens:           <ol style="list-style-type: none"> <li>1) If calculation status is still <b>draft</b> or already <b>valid</b>, [validate] button and [set to draft] button will be disappeared.</li> <li>2) If calculation status was already <b>submitted</b>, [validate] button and [set to draft] button will be shown.</li> </ol> </li> <li>• If done, actor can click [Back] button to return to the list of operating lease calculation, then calculation data will be displayed.</li> </ul>
9	Set to draft of operating lease calculation	Marketing super user	<ul style="list-style-type: none"> <li>• To utilize this feature; If calculation still need to revise and status still not valid yet, actor can change the calculation status from <b>submitted</b> to <b>draft</b>.</li> <li>• To do this process, actor should open calculation detail screen by clicking [view detail] button in the list of operating lease calculation screen. Once calculation detail screen opens, actor can change the status of calculation by clicking [set to draft] button. After that, system will proceed automatically to change the status on database.</li> <li>• If done, actor can click [Back] button to return to the list of operating lease calculation, then calculation data will be displayed.</li> </ul>
10	Preview and print	Marketing	<ul style="list-style-type: none"> <li>• To produce this report, actor can select the calculation</li> </ul>

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	operating lease proposal	user, Marketing super user	<p>record on the list and select the report on group button by click [Print preview] button(at lease only one record can be selected). Once it clicked preview screen will be opened.</p> <ul style="list-style-type: none"> <li>Upon preview screen opens, actor can click [Print] button to print the report.</li> <li>If done, actor can click [Back] button to return to the list of operating lease calculation, then calculation data will be displayed.</li> </ul>
--	--------------------------	-------------------------------	---

### 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 (submitted)	Submit	Validate	Preview and print
Marketing super user	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Marketing user	Yes	Yes	Yes	No	Yes	No	Yes

The figure below is describing transition of Status that performed when people interact in a function. In this features, validation (validate and invalidate) process triggered on the operating lease quotation module. If the quotation already validate, so the status of calculation will be valid too, and vice versa.

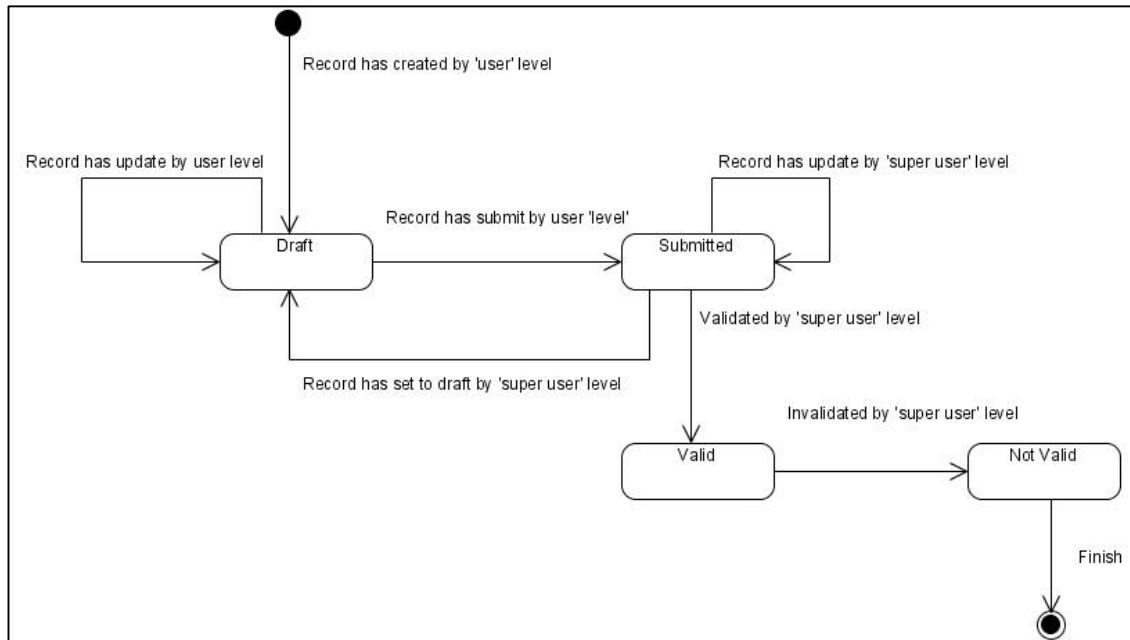


Figure 12 – Status diagram of Operating Lease Calculation

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### 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.

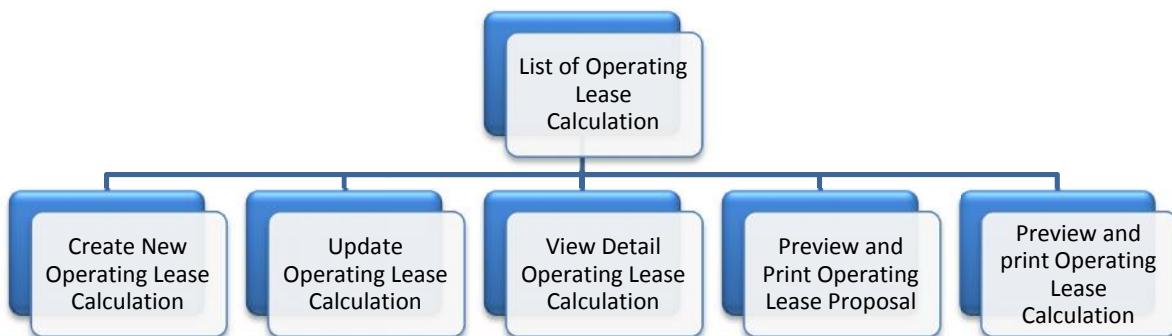


Figure 20 – Sitemap design of Operating Lease Calculation

### 2.3.5 Screen design

#### 2.3.5.1 List of operating lease calculation

This screen is designed to display a calculation of Operating Lease list. On this list actor can filter and sort a calculation records. And also, actor can open another screen to create new calculation record, update calculation record, and view detail of calculation record.

The screenshot shows a web-based application interface for managing operating lease calculations. The top navigation bar has a title "Calculation of Operating Lease". Below the title, there is a button "+Create" with a red callout "To create new records". The main content area is titled "List of Calculation Operating Lease" with a red callout "To filter a number of record filter". It includes a "Show 10 entries" dropdown and a "Displaying list" button, both with red callouts. A search bar "Search" is also present. The data table below has columns: OPL Calculation Number, Lease Category, Product Name, Maintenance Type, Is Insurance, Monthly Installment Fee, Interest Rate, Total Profit Amount, Status, and Action. A specific row is highlighted with a red box, showing values: COSC4060901, Full Maintenance, PT. Maju Jaya, Mitsubishi Triton GLX SC, 1 Unit, 155,106,364, John Smith, John Smith, submitted, and a set of icons. At the bottom, there is a message "Showing 1 to 1 of 1 entries" with a red callout "Data paging information", a "First Previous Next Last" navigation bar with a red callout "To open paging the records", and a "Action" column with a red box around it.

OPL Calculation Number	Lease Category	Product Name	Maintenance Type	Is Insurance	Monthly Installment Fee	Interest Rate	Total Profit Amount	Status	Action
COSC4060901	Full Maintenance	PT. Maju Jaya	Mitsubishi Triton GLX SC	1 Unit	155,106,364	John Smith	John Smith	submitted	

Figure 213 – List of Operating Lease Calculation Screen

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### 2.3.5.2 Create new calculation of operating lease

This screen is designed to create new calculation of Operating Lease record. After filling out necessary data on the screen, actor can store a data into the system by clicking the action button.

The screenshot shows the 'Create New Operating Lease Calculation Screen (Step 1)'. The interface includes a header with a 'Back' button, a 'Return back to list of operating lease calculation' link, and a 'To entry a calculation data' link. Below this is a navigation bar with tabs: Step 1, Step 2, Step 3, Step 4, Step 5, and Step 6. The Step 1 tab is active. The main area contains several input fields grouped into sections: 'Basic Information (Product)' and 'Basic Information (Lease)'. The 'Basic Information (Product)' section includes fields for Product Registration Code, Product Type, Product Category, Product Brand Code, Product Brand Name, Product Model Code, Product Model Year, Transmission, Fuel Type, Displacement (cc), Usage, Number Plate Color, and Monthly Mileage. The 'Basic Information (Lease)' section includes fields for Customer Name, Lessee Category, Previous Agreement Number, Term of Payment (Days), Term of Payments, Start Date Usage Unit Plan, Lease Period Plan (Months), End Date Usage Unit Plan, Maintenance Type, Insurance, Purchase Requirement After Lease, Carrosserie Type, Accessories Type, and a 'Save as Draft' button. A red box highlights the 'End Date Usage Unit Plan' field with the text '[End Date Usage Unit Plan] will be filled automatically'. Another red box highlights the 'Lease Period Plan' field with the text '[Lease Period Plan] will be filled manually'. At the bottom, there are 'Save as Draft' and 'Next Step >' buttons, with a red box highlighting the 'Next Step >' button and the text 'To save and navigate the calculation data'.

Figure 22 – Screen of Create New Operating Lease Calculation Screen (Step 1)

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The screenshot shows the 'Create New Operating Lease Calculation' screen (Step 2) with the following highlights:

- Top Navigation:** Step 1, Step 2, Step 3, Step 4, Step 5, Step 6. A red box surrounds the 'Back' button.
- Buttons:** 'Return back to list of operating lease calculation' (red box), 'Draft' (top right), 'Save Changes' (red box), 'Next Step' (red box), 'To entry a calculation data' (red box).
- Cost Condition Section:** Contains fields for Product Price, Dealer Discount, ATPM Discount, and Product Price Total. It also includes sections for Accessories Price, Supplier Discount, and Accessories Price Total; and Carroserie Price, Supplier Discount, and Carroserie Price Total.
- Finance Condition Section:** Contains fields for Payment Type (In Arrear), Borrowing Rate Effective (%), Spread Effective (%), Prime Rate Effective (%), Borrowing Rate Flat (%), Prime Rate Flat (%), and Spread Flat (%). It also includes fields for Administration Fee, Replacement Unit Cost (monthly), Mobilizations Fee, Demobilizations Fee, and Term of Payment (Days).
- Product Section:** Contains fields for DP Before BAST (%), DP Period to BAST (Days), Payment Settlement before BAST (%), and Payment Settlement Period to BAST (Days).
- Carroserie Section:** Contains fields for DP Before BAST (%), DP Period to BAST (Days), Payment Settlement Before BAST, and Payment Settlement Period to BAST (Days).
- Accessories Section:** Contains fields for DP Before BAST (%), DP Period to BAST (Days), Payment Settlement Before BAST, and Payment Settlement Period to BAST (Days).
- Registration Fee Section:** Contains fields for Registration Value Rate (%) and Registration Value Amount.
- Bottom Buttons:** 'Previous Step', 'Save Changes' (red box), 'Next Step' (red box), 'To save and navigate the calculation data' (red box).

Figure 23 – Screen of Create New Operating Lease Calculation Screen (Step 2)

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The screenshot shows the 'Create New Operating Lease Calculation' screen (Step 3) with various input fields and annotations:

- Top Navigation:** Back button, 'Return back to list of operating lease calculation', and 'To entry a calculation data'.
- Maintenance Basic Information:** Fields for Brand Code, Product Type, Monthly Mileage (Km), Brand Name, Product Category, Usage (City), Model Name, and Model Year (yyyy/mm). A red box highlights the 'Lease Period (Months)' field.
- Maintenance Condition & Cost:** A section for maintenance types. A red box highlights the 'Maintenance Type' dropdown set to 'Full Maintenance' with the annotation '[Lease Period] will be filled automatically'. Below it are sections for Periodic Maintenance, Irregular Maintenance, Battery, Tire, Maintenance of Special OP Parts, CSD, Maintenance of Others (1), Maintenance of Others (2), and Maintenance of Others (3). Each section has a Remarks field and Rp/Amount fields. A red box highlights the 'Total Maintenance Cost' field with the annotation 'Value of [Total Maintenance Cost] is total budget during the period of lease'.
- Bottom Navigation:** Buttons for '< Previous Step', 'Save Changes' (highlighted in blue), 'Next Step >', and 'To save and navigate the calculation data'.

Figure 24 – Screen of Create New Operating Lease Calculation Screen (Step 3)

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Draft

[Return back to list of operating lease calculation](#)

To entry a calculation data

**Step 1 Step 2 Step 3 Step 4 Step 5 Step 6**

Created by	Abdul Somad Zaini	Created Date	01/01/2014	Last Modified by	Abdul Somad Zaini	Last Modified Date	01/01/2014	
<b>Insurance Basic Information</b>								
Start Date of Insurance (mm/dd/yyyy)	02/01/2015	End Date of Insurance (mm/dd/yyyy)	03/02/2019	Coverage Period (Months)	29			
Insurance Company	Toxic Marine	Insurance Agent	No Agent	Insurance of Payment Cycle	Yearly	Region		
Class of insurance	ALL RISK +++	Commission Rate (%)	25.000000	Seat Capacity	2	Region 2		
Remarks	Remarks:							
<b>Product</b>								
Model Name	Model Name	Product Type	Product Type	Product Category	Product Category	Model Year (yyyy/mm)	Model Year (yyyy/mm)	
<b>Insurance Condition &amp; Cost</b>								
Basic Premium	Comprehensive	Basic Rate (%)	Rp	Gross Premium				
Third Party Liability (TPL)	Comprehensive	Basic Rate (%)	Rp	Gross Premium				
Property Lost Liability (PPL)	Comprehensive	Basic Rate (%)	Rp	Gross Premium				
Personal Accident for Passenger (PAP)	Comprehensive	Basic Rate (%)	Rp	Gross Premium				
Personal Accident for Driver (PAD)	Comprehensive	Basic Rate (%)	Rp	Gross Premium				
Strike, Riots & Civil Commotion (SRCC)	Comprehensive	Basic Rate (%)	Rp	Gross Premium				
Terrorism & Sabotage (TS)	Comprehensive	Basic Rate (%)	Rp	Gross Premium				
Flood & Windstorm (FLD)	Comprehensive	Basic Rate (%)	Rp	Gross Premium				
Earthquake & Tsunami (EAQ)	Comprehensive	Basic Rate (%)	Rp	Gross Premium				
Authorized Workshop	Comprehensive	Basic Rate (%)	Rp	Gross Premium				
<b>Total Gross Premium</b>								
Rp		Gross Premium						
Rp		Commission Amount						
Rp		Mediator Fee Amount						
Rp		Net Premium						
<b>[Mediator Fee Amount] will be filled manually and value of [Mediator Fee Amount] ≤ value of [Commission Amount]</b>								
<a href="#">Previous Step</a>		<a href="#">Save Changes</a>	<a href="#">Next Step &gt;</a>	To save and navigate the calculation data				

Figure 25 – Screen of Create New Operating Lease Calculation Screen (Step 4)

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The screenshot shows the 'Create New Operating Lease Calculation' screen. At the top, there are navigation buttons: 'Back' (disabled), 'Return back to list of operating lease calculation', 'To entry a calculation data' (disabled), and a 'Draft' button.

The main area is divided into sections:

- Basic Information (Lease Fee):**
  - Start Date Usage Unit Plan (mm/dd/yyyy):** 02/01/2015
  - End Date Usage Unit Plan (mm/dd/yyyy):** 01/21/2019
  - Lease Period Plan (Months):** 48
- Rate Insurance Income:** This field is highlighted with a red box and a note: "Enable [Rate:Insurances Income] field and set value same with [Commission Amount] rate".
- Interest Income:** This field is highlighted with a red box and a note: "Enable [Interest Income] field and set value based on formula in Excel file".
- Setting Monthly Installment:**
  - Ratio:** 0
  - Borrowing Rate (%):** 0
  - Spread of Interest Rate (%):** 0
  - Internal Interest Rate (%):** 0
- Confirmation of Lease Cost:**
  - Product Price:** Rp 0
  - Residual Value (-):** Rp 0
  - Registration Value Amount:** Rp 0
  - Maintenance Cost:** Rp 0
  - Replacement Unit Cost:** Rp 0
  - Insurance Cost:** Rp 0
  - Mediator Fee Cost:** Rp 0
  - Mobilization Cost:** Rp 0
  - Demobilization Cost:** Rp 0
  - Interest Cost:** Rp 0
  - Interest Cost for Term of Payment:** Rp 0
  - Interest Cost Payment Before BAST:** Rp 0
  - Total Cost:** Rp 0
  - Monthly Installment Amount:** Rp 0
  - Profit Result:** Rp 0
- Fields added in Step 5:** A red box highlights the 'Profit Result' section with the note: "Add field [Total Installment], [Insurance Income], [Total Income], [Total Income After Lease Cost]". Below it, the 'Total Installment' field (Rp 900,000,000) and the 'Insurance Income' field (Rp 11,024,415) are also highlighted with red boxes.
- Buttons at the bottom:** 'Previous Step' (disabled), 'Save Changes' (disabled), and 'Submit'.

Figure 26 – Screen of Create New Operating Lease Calculation Screen (Step 5)

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### 2.3.5.3 Update calculation of operating lease

This screen is designed to update calculation of Operating Lease. After changing some data on the screen, actor can store a data into the system by clicking the action button.

The screenshot shows the 'Update calculation of operating lease' screen. At the top, there are navigation buttons: a 'Back' button, a 'Return back to list of operating lease calculation' button, and a 'To entry a calculation data' button. Below these are six step buttons labeled Step 1 through Step 6. The main area contains sections for 'Basic Information (Product)' and 'Basic Information (Lease)'. The 'Basic Information (Product)' section includes fields for Product Registration Code (VEHIC021/V-001/FN527MS/201501), Product Type (Vehicle), Product Category (COMMERCIAL TRUCK), Product Brand Code (V-001), Product Brand Name (MITSUBISHI), Product Model Code (FN527MS), Product Model Year (yyyy/mm) (01/2013), Transmission (M8S2 X5), Fuel Type (SOLAR / DIESEL), Displacement (CC) (7.545), Usage (City dropdown), Number Plate Color (Yellow dropdown), and Monthly Mileage (Km) (dropdown). The 'Basic Information (Lease)' section includes fields for Lease Category (New dropdown), Previous Agreement Number, Term of Payment (days), Term of Payments, Start Date Usage Unit Plan (mm/dd/yyyy), End Date Usage Unit Plan (mm/dd/yyyy), Lease Period Plan (Months), Maintenance Type (Customer Service Desk dropdown), Insurance (Yes dropdown), Purchase Requirement: After Lease (Yes dropdown), Carrosserie Type (Dump Truck dropdown), Carrosserie (Rp 124,000.00), Accessories Type (Accessories dropdown), and Accessories (Rp 0.00). At the bottom, there are 'Save Changes' and 'Next Step >' buttons, with a callout 'To save and navigate the calculation data' pointing to the 'Save Changes' button.

Figure 27 – Screen of Update Operating Lease Calculation screen (Step 1)

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Draft

◀ Back
Return back to list of operating lease calculation
To entry a calculation data

1 Step 1
2 Step 2
3 Step 3
4 Step 4
5 Step 5
6 Step 6

Created by	Abdul Somad Zaini	Created Date	01/01/2014	Last Modified by	Abdul Somad Zaini	Last Modified Date	01/01/2014
<b>Cost Condition</b>							
Product Price	Rp 790,000,000	Dealer Discount	Rp 55,000,000	ATPM Discount	Rp	ATPM Discount	Rp 725,000,000
Accessories Price	Rp Accessories Price	Supplier Discount	Rp Supplier Discount			Accessories Price Total	Rp 0
Carrosorie Price	Rp 124,000,000	Supplier Discount	Rp Supplier Discount			Carrosorie Price Total	Rp 124,000,000
Residual Value Amount	Rp 274,200,000	Residual Value (%)	32.290820	Standard Residual Value (%)	30.000000	Standard Residual Value Amount	Rp 274,200,000
<b>DSF Finance Condition</b>							
Payment Type	In Arrear	Spread Effective (%)	5.000000	Prime Rate Effective (%)	11.100000	Borrowing Rate Flat (%)	6.107951
Borrowing Rate Effective (%)	11.100000	Prime Rate Flat (%)	9.107951	Borrowing Rate Flat (%)	9.107951	Spread Flat (%)	2.635152
Administration Fee	Rp 2,000,000	Replacement Unit Cost (monthly)	Rp Replacement Car AI	Mobilizations Fee	Rp Mobilizations Fee	Demobilizations Fee	Rp Demobilizations Fee
Term of Payment (Days)							14
<b>Product</b>							
DP Before BAST (%)	30.000000	DP Period to BAST (Days)	30	Payment Settlement before BAST (%)	70.000000	Payment Settlement Period to BAST (Days)	14
Car Under	DP Before BAST (%)	DP Period to BAST (Day)	30	Payment Settlement Before BAST (%)	70.000000	Payment Settlement Period to BAST (Days)	14
Accessories	DP Before BAST (%)	DP Period to BAST (Days)	30	Payment Settlement Before BAST (%)	70.000000	Payment Settlement Period to BAST (Days)	14
Registration Fee	Registration Value Rate (%)	0.1400	Registration Value Amount	Rp 57,052,800			
<span style="border: 1px solid #ccc; border-radius: 5px; padding: 2px 10px;">◀ Previous Step</span> <span style="background-color: #0070C0; color: white; border: 1px solid #0070C0; border-radius: 5px; padding: 2px 10px;">Save Changes</span> <span style="border: 1px solid #ccc; border-radius: 5px; padding: 2px 10px;">Next Step ➤</span> <span style="border: 1px solid red; padding: 2px;">To save and navigate the calculation data</span>							

Figure 28 – Screen of Update Operating Lease Calculation screen (Step 2)

## Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	01 July 2015
Status	Baseline	Version	7.0
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Draft

[Back](#)
Return back to list of operating lease calculation
To entry a calculation data

1 Step 1
2 Step 2
3 Step 3
4 Step 4
5 Step 5
6 Step 6

Created by	Abdul Somad Zaini	Created Date	01/01/2014	Last Modified By	Abdul Somad Zaini	Last Modified Date	01/01/2014
<b>Maintenance Basic Information</b>							
Brand Code	Brand Name	Model Name					
<input type="text"/>	<input type="text"/>	<input type="text"/>					
Product Type	Product Category	Model Year (yyyy/mm)					
<input type="text"/>	<input type="text"/>	<input type="text"/>					
Monthly Mileage (Km)	Usage	Lease Period (Months)					
<input type="text"/>	<input type="text"/>	<input type="text"/>					
<b>Maintenance Condition &amp; Cost</b>							
<span style="border: 1px solid red; padding: 2px;">[Lease Period] will be filled automatically</span>							
Maintenance Type	<input checked="" type="checkbox"/> Periodic Maintenance <input checked="" type="checkbox"/> Oil Exchange <input checked="" type="checkbox"/> Exchange of Oil and Fats 5000 Km 2000 Km Rp 6000						
<input checked="" type="checkbox"/> Irregular Maintenance	<input type="text"/> Rp <input type="text" value="8000"/>						
<input checked="" type="checkbox"/> Battery	<input type="text"/> Rp <input type="text" value="9000"/>						
<input checked="" type="checkbox"/> Tire	<input type="text"/> Rp <input type="text" value="9100"/>						
<input checked="" type="checkbox"/> Maintenance of Special OP Parts	<input type="text"/> Rp <input type="text" value="9140"/>						
<input checked="" type="checkbox"/> CSD	<input type="text"/> Rp <input type="text" value="9140"/>						
<input checked="" type="checkbox"/> Maintenance of Others (1)	<input type="text"/> Rp <input type="text" value="9140"/>						
<input checked="" type="checkbox"/> Maintenance of Others (2)	<input type="text"/> Rp <input type="text" value="9140"/>						
<input checked="" type="checkbox"/> Maintenance of Others (3)	<input type="text"/> Rp <input type="text" value="9140"/>						
<span style="border: 1px solid red; padding: 2px;">Value of [Total Maintenance Cost] is total budget during the period of lease</span> <span style="border: 1px solid red; padding: 2px;">Total Maintenance Cost</span> <span style="border: 1px solid red; padding: 2px;">Rp <input type="text" value="20000000"/></span>							
<a href="#"> Previous Step</a> <span style="border: 1px solid #0070C0; color: #0070C0; padding: 2px;">Save Changes</span> <span style="border: 1px solid #0070C0; color: #0070C0; padding: 2px;">Next Step &gt;</span>		<span style="border: 1px solid red; padding: 2px;">To save and navigate the calculation data</span>					

Figure 29 – Screen of Update Operating Lease Calculation screen (Step 3)

## Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	01 July 2015
Status	Baseline	Version	7.0
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The screenshot shows the 'Update Operating Lease Calculation' screen (Step 4) with several annotations:

- A red box highlights the 'Back' button at the top left.
- A red box highlights the link 'Return back to list of operating lease calculation'.
- A red box highlights the button 'To entry a calculation data'.
- A red box highlights the 'Remarks' section.
- A red box highlights the 'Product' section.
- A red box highlights the 'Insurance Condition & Cost' section.
- A red box highlights the note: '[Mediator Fee Amount] will be filled manually and value of [Mediator Fee Amount] ≤ value of [Commission Amount]'.
- A red box highlights the 'Total Gross Premium' section.
- A red box highlights the 'Commission Amount' section.
- A red box highlights the 'Net Premium' section.
- A red box highlights the buttons 'Previous Step', 'Save Changes', and 'Next Step' at the bottom.
- A red box highlights the note: 'To save and navigate the calculation data'.

Figure 30 – Screen of Update Operating Lease Calculation screen (Step 4)

## Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	01 July 2015
Status	Baseline	Version	7.0
Document	TM14402A - DSF OLSS - FS A.1 Marketing Module Rev.7.0	Page	Page 45 of 93

The screenshot shows the 'Update Operating Lease Calculation' screen (Step 5) with several red annotations:

- Top Left:** A red box surrounds the 'Back' button, with a callout pointing to 'Return back to list of operating lease calculation'.
- Top Right:** A red box surrounds the 'Save Changes' and 'Submit' buttons, with a callout pointing to 'To entry a calculation data'.
- Basic Information (Lease Fee):**
  - A red box surrounds the 'Rate Insurance Income' field, with a callout pointing to 'Enable [Rate Insurance Income] field and set value same with [Commission Amount] rate'.
  - A red box surrounds the 'Interest Income' field, with a callout pointing to 'Enable [Interest Income] field and set value based on formula in Excel file'.
  - A red box surrounds the 'Lease Period' field, with a callout pointing to '[Lease Period] will be filled automatically'.
- Setting Monthly Installment:**
  - A red box surrounds the 'Total Cost' field, with a callout pointing to 'Add field [Total Installment], [Insurance Income], [Total Income], [Total Income After Lease Cost]'.
- Confirmation of Lease Cost:**
  - A red box surrounds the 'Insurances Discount' field, with a callout pointing to 'Remove [Insurances Discount] field from screen'.
- Bottom Buttons:**
  - A red box surrounds the 'Previous Step' and 'Save Changes' buttons, with a callout pointing to 'To save and navigate the calculation data'.

Figure 314 – Screen of Update Operating Lease Calculation screen (Step 5)

## Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	01 July 2015
Status	Baseline	Version	7.0
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### 2.3.5.4 View detail calculation of operating lease

This screen is designed to view detail a calculation of Operating Lease. On this screen actor can change status of a Refinance calculation by clicking action button.

Step 1	Step 2	Step 3	Step 4	Step 5	Step 6
Created by Abdul Somad Zaini	Created Date 01/01/2014	Last Modified By Abdul Somad Zaini	Last Modified Date 01/01/2014		

**Basic Information (Product)**

Product Registration Code VEH/00021/V-001/FNE227MS/201301	Product Type Vehicle	Product Category COMMERCIAL TRUCK
Product Brand Code V-001	Product Brand Name MITSUBISHI	Product Model Code FN527MS
Product Model Name FUSO TRUCK E2 FN527MS	Product Model Type FSO	Product Model Year (yyyy/mm) 2013/01
Transmission M852 X 5	Fuel Type SOLAR / DIESEL	Displacement (CC) 7.545
Usage City	Number Plate Color Yellow	Monthly Mileage (Km) 0

**Basic Information (Lease)**

Customer Name 211637	Previous Agreement Number	Term of Payment (Days) 14
Lease Category New	Start Date Usage Unit Plan (mm/dd/yyyy) 02/01/2015	End Date Usage Unit Plan (mm/dd/yyyy) 02/03/2019
Lease Period Plan (Months) 48	Insurance Yes	Purchase Requirement After Lease Yes
Maintenance Type Customer Service Desk	Carrosserie Aluminum Box	Accessories Rp 92,000,000
Carrosserie Type Aluminum Box	Accessories Rp	Accessories Rp 100,000,000
Accessories Type Bumper Racing		

**Action Buttons:**

- Save as Draft
- Next Step >
- To navigate the calculation data

Figure 32 – Screen of View Detail Operating Lease Calculation (Step 1)

## Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	01 July 2015
Status	Baseline	Version	7.0
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The screenshot shows the 'View Detail Operating Lease Calculation' screen. At the top left is a 'Back' button. To its right is a red box containing the text 'Return back to list of operating lease calculation'. Further right is another red box containing 'A detail calculation data'. In the top right corner is a 'Draft' button.

Below the header is a navigation bar with six steps: Step 1, Step 2, Step 3, Step 4, Step 5, and Step 6. Underneath the navigation bar are sections for 'Cost Condition' and 'Finance Condition', each containing several data entries. For example, under Cost Condition, there are entries for Product Price (Rp. 10.000.000), Dealer Discount (Rp. 100.000), ATPM Discount (Rp. 100.000), and Product Price Total (Rp. 100.000). Under Finance Condition, there are entries for Spread Effective (%) (70%), Borrowing Rate Flat (%) (70%), Prime Rate Effective (%) (70%), Prime Rate Flat (%) (70%), Borrowing Rate Effective (%) (70%), and Spread Flat (%) (70%).

The main content area is divided into sections for 'Product', 'Carroserie', 'Accessories', and 'Registration Fee'. Each section contains specific parameters and their values. For instance, in the Product section, DP Before BAST (%) is 80%, DP Period to BAST (Days) is 80 Days, Payment Settlement before BAST is 80%, and Payment Settlement Period to BAST (Days) is 80 Days. In the Registration Fee section, Registration Value Rate (%) is 0.14, Registration Value Amount is Rp 110, and Payment Settlement Period to BAST (Days) is 59 Days.

At the bottom left are buttons for 'Previous Step', 'Save Changes' (highlighted in blue), and 'Next Step'. To the right of these buttons is a red box containing the text 'To navigate the calculation data'.

Figure 33 – Screen of View Detail Operating Lease Calculation (Step 2)

## Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	01 July 2015
Status	Baseline	Version	7.0
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Return back to list of operating lease calculation

A detail calculation data

Step 1 Step 2 Step 3 Step 4 Step 5 Step 6

Created by Abdul Somad Zaini Created Date 01/01/2014 Last Modified By Abdul Somad Zaini Last Modified Date 01/01/2014

Maintenance Basic Information

Brand Code	Brand Name	Model Name
Brand Code	Brand Name	Model Name
Product Type	Product Category	Model Year (yyyy/mm)
Product Type	Product Category	Model Year (yyyy/mm)
Monthly Mileage (Km)	Usage	Lease Period (Months)
Monthly Mileage (Km)	Usage	Lease Period (Months)

Maintenance Condition & Cost

Maintenance Type	Remarks	Exchange of Oil and Fats	Remarks	Cost
Periodic Maintenance	Periodic Maintenance	Oil Exchange	Remarks	Rp 10.000.000
Irregular Maintenance	Remarks	Exchange of Oil and Fats	Remarks	Rp. 100.000
Battery	Remarks			Rp. 50.000.000
Tire	5000 Km			Rp 50.000.000
Maintenance of Special OP Parts	Remarks			Rp 10.000.000
CSD	Remarks			Rp. 40.000.000
Maintenance of Others (1)	Remarks			Rp. 40.000.000
Maintenance of Others (2)	Remarks			Rp. 40.000.000
Maintenance of Others (3)	Remarks			Rp. 40.000.000
		Total Maintenance Cost		Rp. 40.000.000

Previous Step Save Changes Next Step To navigate the calculation data

Figure 34 – Screen of View Detail Operating Lease Calculation (Step 3)

### Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	01 July 2015
Status	Baseline	Version	7.0
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[◀ Back](#)      [Return back to list of operating lease calculation](#)      [A detail calculation data](#)

1 Step 1    2 Step 2    3 Step 3    4 Step 4    5 Step 5    6 Step 6

Created by	Abdul Somad Zaini	Created Date	01/01/2014	Last Modified by	Abdul Somad Zaini	Last Modified Date	01/01/2014
<b>Insurance Basic Information</b>							
Start Date Usage Unit Plan (mm/dd/yyyy)	End Date Usage Unit Plan (mm/dd/yyyy)	Coverage Period (Months)					
01/01/2015	01/03/2019	49					
Insurance Company	Insurance Agent	Insurance of Payment Cycle	Region				
Tokio Marine	No Agent	Yearly	Region 2				
Class of Insurance	Commission Rate (%)	Seat Capacity					
ALL RISK +++	25.00	2					
Remarks	-						
<b>Product</b>							
Model Name	Product Type	Product Category	Model Year (yyyy/mm)				
Model Name	Product Type	Product Category	Model Year (yyyy/mm)				
<b>Insurance Condition &amp; Cost</b>							
Basic Premium	849000000.00	1.33	Rp	52,900,289			
Third Party Liability (TPL)	50000000.00	1.13	Rp	2,297,774			
Property Lost Liability (PPL)	0	0	Rp	0			
Personal Accident for Passenger (PAP)	20000000.00	0.10	Rp	245,095			
Personal Accident for Driver (PAD)	20000000.00	0.50	Rp	408,493			
Strike, Riots & Civil Commotion (SRCC)	849000000.00	0.05	Rp	1,403,069			
Terrorism & Sabotage (TS)	849000000.00	0.05	Rp	1,403,060			
Flood & Windstorm (FLD)	849000000.00	0.10	Rp	2,805,119			
Earthquake & Tsunami (EAQ)	849000000.00	0.10	Rp	2,805,119			
Authorized Workshop	849000000.00	0.15	Rp	4,209,179			
Total Gross Premium Rp 52,900,289 Commission Amount Rp 13,225,072 Moderator Fee Amount Rp 13,225,072 Net Premium Rp 30,475,217							
<a href="#">◀ Previous Step</a> <a href="#">Save Changes</a> <a href="#">Next Step ▶</a> <a href="#">To navigate the calculation data</a>							

Figure 35 – Screen of View Detail Operating Lease Calculation (Step 4)

## Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	01 July 2015
Status	Baseline	Version	7.0
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The screenshot shows the 'View Detail Operating Lease Calculation' screen. At the top, there are three buttons: 'Back' (highlighted with a red box), 'Return back to list of operating lease calculation' (highlighted with a red box), and 'A detail calculation data' (highlighted with a red box). Below these are navigation steps: Step 1, Step 2, Step 3, Step 4, Step 5 (highlighted with a red box), and Step 6. The main content area has sections for 'Basic Information (Lease Fee)', 'Setting Monthly installment', and 'Confirmation of Lease Cost'. The 'Basic Information (Lease Fee)' section contains fields like Start Date, End Date, Lease Period Plan, Rate Insurance Income, Admin Fee Amount, Interest Income, BAST Handover Schedule, Security Deposit Payment, Security Deposit Amount, First Lease Payment, Total Unit Quantity Lease, and Special Case (Remarks). The 'Setting Monthly installment' section includes fields for Ratio, Borrowing Rate (%), Spread of Interest Rate (%), and Internal Interest Rate (%). The 'Confirmation of Lease Cost' section lists various costs with their respective amounts and unit types (Rp or Rp). At the bottom, there are buttons for 'Previous Step', 'Save Changes' (highlighted with a red box), 'Submit', and a link 'To navigate the calculation data'.

Category	Description	Value
Basic Information (Lease Fee)	Start Date (mm/dd/yyyy)	01/01/2015
	End Date (mm/dd/yyyy)	01/28/2019
	Lease Period Plan (Months)	48
	Rate Insurance Income	0.00
	Admin Fee Amount	2,000,000
	Interest Income	0
	BAST Handover Schedule (mm/dd/yyyy)	N/A
	Security Deposit Payment	N/A
	Security Deposit Amount	0
	First Lease Payment (Days)	0
	Total Unit Quantity Lease	2
	Special Case (Remarks)	N/A
Setting Monthly installment	Ratio	1.20
	Borrowing Rate (%)	11.16
	Spread of Interest Rate (%)	5.00
	Internal Interest Rate (%)	15.16
Confirmation of Lease Cost	Product Price	Rp 702,000,000
	Residual Value (Rp)	210,000,000
	Registration Value Amount	Rp 47,174,400
	Maintenance Cost	Rp 24,000,000
	Replacement Unit Cost	Rp 0
	Insurance Cost	Rp 44,084,000
	Mediator Fee Cost	Rp 11,021,410
	Mobilization Cost	Rp 0
	Demobilization Cost	Rp 0
	Interest Cost	Rp 164,960,636
	Interest Cost for Term of Payment	Rp 1,803,880
	Interest Cost Payment Before BAST	Rp 0
	Total Cost	Rp 704,260,571
Profit & Profitability	Monthly Installment Amount	Rp 18,770,000
	Total Installment	Rp 900,591,000
	Insurance Income	Rp 11,024,410
	Total Income	Rp 911,614,410
	Total Profit After Lease Cost	Rp 127,15,444

Figure 36 – Screen of View Detail Operating Lease Calculation (Step 5)

### Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	01 July 2015
Status	Baseline	Version	7.0
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#### 2.3.5.5 Preview and print operating lease proposal

This screen is designed to view report a proposal of Operating Lease. On this screen actor can print and save report as pdf or excel file by clicking action button.

**Operating Lease Proposal**

To : Mr. Qwerty  
 From : NBD Dept - Operating Lease Section  
 Date : 8 - May - 2015  
 No : 00010/OPN/01/05/2015  
 Subject : Proposal for Operating Lease Quotation Submission

**Save As button**  
**Print button**

Dear Sir/Madam,  
 I would like to receive approval to submit the operating lease quotation for :

(1) CUSTOMER DATA			
Name	KANGAR CONSOLIDATED INDUSTRIES, PT.	New or Repeat Customer	for testing purpose
Business Economy Sector	INDUSTRI & MANUFACTURES	Address	JL. RAYA HAMENGKUBUWONO IX/JL. RAYA BEKASI KM 24,5
Telephone & Fax	021-46951009		

(2) PIC DATA			
Name	Achmad Fardani	Telephone Number	08118608530
Position	Marketing Officer	Email Address	deny@prasetia.com

(3) DEADLINE OF QUOTATION SUBMISSION		8 - May - 2015
--------------------------------------	--	----------------

(4) OPERATING LEASE CONDITION			
Product Name	MITSUBISHI		
Model Name	COLT L300 DIESEL E-2 MINIBUS CHASSIS		
Product Price	849,000,000		
Purpose Of Use	Sales		
Total Unit Quantity	1		
Non or COP Program	NO		
Residual Value	274,200,000		
Standard Residual Value	365,600,000		
Maintenance Type	Customer Service Desk		
Lease Period (month)	48		
Monthly Installment	22,120,000		
Total Income After Lease Cost	1,061,760,000		
Installment Ratio	1200000		
OPL Calculation Ref	00016/QCN/01/05/2015		

layout report following sample

Thank you for your consideration and approval for this request.  
 Change label and value of [Profit Amount] become [Total Income After Lease Cost]

Proposed By, Acknowledgment1  
 Approved By, Acknowledgment2  
 Approved By, Acknowledgment3

Approvedman1  
 Approvedman2  
 Approvedman3

Figure 37 – Screen of Operating Lease Proposal Report

### Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	01 July 2015
Status	Baseline	Version	7.0
Document	TM14402A - DSF OLSS - FS A.1 Marketing Module Rev.7.0	Page	Page 52 of 93

To : Mr. Qwerty																																																																																																							
From : NBD Dept - Operating Lease Section																																																																																																							
Date : 8 - May - 2015																																																																																																							
No : 00010/OPN/01/05/2015																																																																																																							
Subject : Proposal for Operating Lease Quotation Submission																																																																																																							
<p>Dear Sir/Madam,</p> <p>I would like to receive approval to submit the operating lease quotation for :</p>																																																																																																							
<table border="1"> <tr> <td colspan="4">(1) CUSTOMER DATA</td> </tr> <tr> <td>Name</td> <td>KANGAR CONSOLIDATED INDUSTRIES. PT.</td> <td>New or Repeat Customer</td> <td>for testing purpose</td> </tr> <tr> <td>Business Economy Sector</td> <td>INDUSTRY &amp; MANUFACTURES</td> <td>Address</td> <td>JL. RAYA HAMENGKUBOWONO IX/JL. RAYA BEKASI KM 24,5</td> </tr> <tr> <td>Telephone &amp; Fax</td> <td>021-46951009</td> <td colspan="2"></td> </tr> <tr> <td colspan="4">(2) PIC DATA</td> </tr> <tr> <td>Name</td> <td>Achmad Fardani</td> <td>Telephone Number</td> <td>08118608530</td> </tr> <tr> <td>Position</td> <td>Marketing Officer</td> <td>Email Address</td> <td>deny@prasetya.com</td> </tr> <tr> <td colspan="4">(3) DEADLINE OF QUOTATION SUBMISSION</td> </tr> <tr> <td colspan="4">8 - May - 2015</td> </tr> <tr> <td colspan="4"> <table border="1"> <tr> <td colspan="4">(4) OPERATING LEASE CONDITION</td> </tr> <tr> <td>Product Name</td> <td colspan="3">MITSUBISHI</td> </tr> <tr> <td>Model Name</td> <td colspan="3">COLT L300 DIESEL E-2 MINIBUS CHASSIS</td> </tr> <tr> <td>Product Price</td> <td colspan="3">849,000,000</td> </tr> <tr> <td>Purpose Of Use</td> <td colspan="3">Sales</td> </tr> <tr> <td>Total Unit Quantity</td> <td colspan="3">1</td> </tr> <tr> <td>Non or COP Program</td> <td colspan="3">NO</td> </tr> <tr> <td>Residual Value</td> <td colspan="3">274,200,000</td> </tr> <tr> <td>Standard Residual Value</td> <td colspan="3">365,600,000</td> </tr> <tr> <td>Maintenance Type</td> <td colspan="3">Customer Service Desk</td> </tr> <tr> <td>Lease Period (month)</td> <td colspan="3">48</td> </tr> <tr> <td>Monthly Instalment</td> <td colspan="3">22,120,000</td> </tr> <tr> <td>Total Income After Lease Cost</td> <td colspan="3">1,061,760,000</td> </tr> <tr> <td>Instalment Ratio</td> <td colspan="3">1.200000</td> </tr> <tr> <td>OPL Calculation Ref</td> <td colspan="3">00036/OCN/01/05/2015</td> </tr> </table> </td> </tr> </table>				(1) CUSTOMER DATA				Name	KANGAR CONSOLIDATED INDUSTRIES. PT.	New or Repeat Customer	for testing purpose	Business Economy Sector	INDUSTRY & MANUFACTURES	Address	JL. RAYA HAMENGKUBOWONO IX/JL. RAYA BEKASI KM 24,5	Telephone & Fax	021-46951009			(2) PIC DATA				Name	Achmad Fardani	Telephone Number	08118608530	Position	Marketing Officer	Email Address	deny@prasetya.com	(3) DEADLINE OF QUOTATION SUBMISSION				8 - May - 2015				<table border="1"> <tr> <td colspan="4">(4) OPERATING LEASE CONDITION</td> </tr> <tr> <td>Product Name</td> <td colspan="3">MITSUBISHI</td> </tr> <tr> <td>Model Name</td> <td colspan="3">COLT L300 DIESEL E-2 MINIBUS CHASSIS</td> </tr> <tr> <td>Product Price</td> <td colspan="3">849,000,000</td> </tr> <tr> <td>Purpose Of Use</td> <td colspan="3">Sales</td> </tr> <tr> <td>Total Unit Quantity</td> <td colspan="3">1</td> </tr> <tr> <td>Non or COP Program</td> <td colspan="3">NO</td> </tr> <tr> <td>Residual Value</td> <td colspan="3">274,200,000</td> </tr> <tr> <td>Standard Residual Value</td> <td colspan="3">365,600,000</td> </tr> <tr> <td>Maintenance Type</td> <td colspan="3">Customer Service Desk</td> </tr> <tr> <td>Lease Period (month)</td> <td colspan="3">48</td> </tr> <tr> <td>Monthly Instalment</td> <td colspan="3">22,120,000</td> </tr> <tr> <td>Total Income After Lease Cost</td> <td colspan="3">1,061,760,000</td> </tr> <tr> <td>Instalment Ratio</td> <td colspan="3">1.200000</td> </tr> <tr> <td>OPL Calculation Ref</td> <td colspan="3">00036/OCN/01/05/2015</td> </tr> </table>				(4) OPERATING LEASE CONDITION				Product Name	MITSUBISHI			Model Name	COLT L300 DIESEL E-2 MINIBUS CHASSIS			Product Price	849,000,000			Purpose Of Use	Sales			Total Unit Quantity	1			Non or COP Program	NO			Residual Value	274,200,000			Standard Residual Value	365,600,000			Maintenance Type	Customer Service Desk			Lease Period (month)	48			Monthly Instalment	22,120,000			Total Income After Lease Cost	1,061,760,000			Instalment Ratio	1.200000			OPL Calculation Ref	00036/OCN/01/05/2015		
(1) CUSTOMER DATA																																																																																																							
Name	KANGAR CONSOLIDATED INDUSTRIES. PT.	New or Repeat Customer	for testing purpose																																																																																																				
Business Economy Sector	INDUSTRY & MANUFACTURES	Address	JL. RAYA HAMENGKUBOWONO IX/JL. RAYA BEKASI KM 24,5																																																																																																				
Telephone & Fax	021-46951009																																																																																																						
(2) PIC DATA																																																																																																							
Name	Achmad Fardani	Telephone Number	08118608530																																																																																																				
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(3) DEADLINE OF QUOTATION SUBMISSION																																																																																																							
8 - May - 2015																																																																																																							
<table border="1"> <tr> <td colspan="4">(4) OPERATING LEASE CONDITION</td> </tr> <tr> <td>Product Name</td> <td colspan="3">MITSUBISHI</td> </tr> <tr> <td>Model Name</td> <td colspan="3">COLT L300 DIESEL E-2 MINIBUS CHASSIS</td> </tr> <tr> <td>Product Price</td> <td colspan="3">849,000,000</td> </tr> <tr> <td>Purpose Of Use</td> <td colspan="3">Sales</td> </tr> <tr> <td>Total Unit Quantity</td> <td colspan="3">1</td> </tr> <tr> <td>Non or COP Program</td> <td colspan="3">NO</td> </tr> <tr> <td>Residual Value</td> <td colspan="3">274,200,000</td> </tr> <tr> <td>Standard Residual Value</td> <td colspan="3">365,600,000</td> </tr> <tr> <td>Maintenance Type</td> <td colspan="3">Customer Service Desk</td> </tr> <tr> <td>Lease Period (month)</td> <td colspan="3">48</td> </tr> <tr> <td>Monthly Instalment</td> <td colspan="3">22,120,000</td> </tr> <tr> <td>Total Income After Lease Cost</td> <td colspan="3">1,061,760,000</td> </tr> <tr> <td>Instalment Ratio</td> <td colspan="3">1.200000</td> </tr> <tr> <td>OPL Calculation Ref</td> <td colspan="3">00036/OCN/01/05/2015</td> </tr> </table>				(4) OPERATING LEASE CONDITION				Product Name	MITSUBISHI			Model Name	COLT L300 DIESEL E-2 MINIBUS CHASSIS			Product Price	849,000,000			Purpose Of Use	Sales			Total Unit Quantity	1			Non or COP Program	NO			Residual Value	274,200,000			Standard Residual Value	365,600,000			Maintenance Type	Customer Service Desk			Lease Period (month)	48			Monthly Instalment	22,120,000			Total Income After Lease Cost	1,061,760,000			Instalment Ratio	1.200000			OPL Calculation Ref	00036/OCN/01/05/2015																																										
(4) OPERATING LEASE CONDITION																																																																																																							
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<p>Thank you for your consideration and approval for this request</p>																																																																																																							
Proposed By.	Acknowledge By.																																																																																																						
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Approvedman1																																																																																																							

Figure 38 –Operating Lease Proposal Report in PDF format

#### 2.3.5.6 Preview and print operating lease calculation

This screen is designed to view report a calculation of Operating Lease. On this screen actor can print and save report as pdf or excel file by clicking action button.

Functional Specification: A.1 Marketing Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	01 July 2015
Status	Baseline	Version	7.0
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**Operating Lease Calculation**

Save As button 
Print button 

Operating Lease Calculation Attachment  
OPL Calculation No 00036/OCN/01/05/2015

(1) PRODUCT PRICE					
A) Product Data	B) Carroserie Data	C) Accessories Data	D) Total Price	E)	F)
Product Name MITSUBISHI	Carroserie Type	CarroType	Accessories Type		
Model Name COLT L300 DIESEL E-2 MINIBUS CHASSIS					
Product Price 790,000,000	Carroserie Price 124,000,000	Accessories Price			
Dealer Discount 65,000,000	Supplier Discount	Supplier Discount			
ATPM Discount					
Product Price Total 725,000,000	Carroserie Total 124,000,000	Accessories Total 0	849,000,000		

(2) FINANCIAL CONDITION			
(A) Borrowing Rate 11.160000	(B) Spread Rate 5.000000	(C) Prime Rate 16.160000	(D)

(3) TERM & CONDITION FOR TRANSACTION						
A) Lease Period 48	B) COP Program NO	C) RV 274,200,000	D) Standard RV 365,600,000	E)	F)	G)
E) Maintenance	F) Insurance	G) Mediator Fee 13,225,072	H) Mobilization Fee 0			
Maintenance Type Customer Service Desk	Gross Premium 52,900,289	I) Demobilization Fee 0	J) Car Replacement 0			
	Commission 13,225,072	K) Administration Fee 2,000,000	L) STNK Renewal 0			
Maintenance Amount 24,000,000	Net Premium 38,617,211	M) KEUR Renewal 0				

(4) TERM & CONDITION FOR PAYMENT			
(A) Product	(B) Carroserie	(C) Accessories	(D)
% DP Estimation Before BAST 30.000000	30.000000		
% Payment Settlement Before BAST 70.000000	70.000000		
DP Period Pmt to BAST 30	30		
Payment Settlement Period to BAST 14	14		

(5) TERM & CONDITION OPL RENT		
Term of Payment 14	Monthly Installment Amount 22,120,000	Installment Amount(Period) 1,061,760,000

(6) INCOME PROJECTION	
TOTAL INCOME	
Total Installment	1,061,760,000
Insurance Income	13,225,072
<b>TOTAL INCOME</b>	<b>1,061,760,000</b>
<b>LEASE COST</b>	
Product Price	849,000,000
Residual Value (-)	274,200,000
Registration Value Amount	57,052,800
Total Maintenance Amount	24,000,000
Replacement Unit Cost	0
Insurance Cost	52,900,289
Mediator Fee	13,225,072
Mobilization Cost	0
Demobilization Cost	0
Interest Cost	207,428,004
Term of Payment Cost	2,016,642
Interest Cost Payment Before BAST	2,708,082
<b>TOTAL LEASE COST</b>	<b>920,903,797</b>
<b>INCOME AFTER LEASE COST</b>	<b>140,856,203</b>

layout report following sample

Remove [Adm Fee Income] item from screen

Change label of [Overhead Fee] become [Lease Cost]

Change label of [Total Overhead Fee] become [Total Lease Cost]

Change label of [Income After Overhead Cost] become [Income After Lease Cost]

Figure 39 – Screen of Preview and Print Operating Lease Calculation

## Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	01 July 2015
Status	Baseline	Version	7.0
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Operating Lease Calculation Attachment			
OPL Calculation No   00036/OCN/01/05/2015			
<b>(1) PRODUCT PRICE</b>			
A) Product Data	B) Carroserie Data	C) Accessories Data	D) Total Price
Product Name   MITSUBISHI	Carroserie Type	CarroType	Accessories Type
Model Name   COLT L300 DIESEL E-2 MINIBUS CHASSIS			
Product Price   790,000,000	Carroserie Price   124,000,000	Accessories Price	
Dealer Discount   65,000,000	Supplier Discount	Supplier Discount	
ATPM Discount			
Product Price Total   725,000,000	Carroserie Total   124,000,000	Accessories Total   0	849,000,000
<b>(2) FINANCIAL CONDITION</b>			
(A) Borrowing Rate   11.160000	(B) Spread Rate   5.000000	(C) Prime Rate   16.160000	
<b>(3) TERM &amp; CONDITION FOR TRANSACTION</b>			
A) Lease Period   48	B) COP Program   NO	C) RV   274,200,000	D) Standard RV   365,600,000
E) Maintenance   Customer Service Desk	F) Insurance   Gross Premium   52,900,289	G) Mediator Fee   13,225,072	H) Mobilization Fee   0
Maintenance Type	Commission   13,225,072	I) Demobilization Fee   0	J) Car Replacement   0
Maintenance Amount   24,000,000	Net Premium   38,617,211	K) Administration Fee   2,000,000	L) STNK Renewal   0
Maintenance Amount	Net Premium	M) KEUR Renewal   0	
<b>(4) TERM &amp; CONDITION FOR PAYMENT</b>			
% DP Estimation Before BAST   30.000000	(A) Product	(B) Carroserie	(C) Accessories
% Payment Settlement Before BAST   70.000000	30	30	
DP Period Pmt to BAST   30			
Payment Settlement Period to BAST   14	14		
<b>(5) TERM &amp; CONDITION OPL RENT</b>			
Term of Paymen   14			
Monthly Installment Amount   22,120,000			
Installment Amount/Period   1,061,760,000			
<b>(6) INCOME PROJECTION</b>			
TOTAL INCOME			
Total Instalment   1,061,760,000			
Adm Fee Income   2,000,000			
Insurance Income   13,225,072			
TOTAL INCOME   1,061,760,000			
OVERHEAD COST			
Product Price   849,000,000			
Residual Value (-)   274,200,000			
Registration Value Amount   57,052,800			
Total Maintenance Amount   24,000,000			
Replacement Unit Cost   0			
Insurance Cost   52,900,289			
Mediator Fee   13,225,072			
Mobilization Cost   0			
Demobilization Cost   0			
Interest Cost   207,426,004			
Term of Payment Cost   2,016,642			
Interest Cost Payment Before BAST   2,708,062			
TOTAL OVERHEAD COST   920,903,797			
INCOME AFTER OVERHEAD COST   140,856,203			

**Figure 40 –Operating Lease Calculation in PDF format**

### Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	01 July 2015
Status	Baseline	Version	7.0
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### 2.3.6 Screen features

Features	Description
[Filter and sort]	To perform data filtering and data sorting of calculation records.
[Create new]	To create new calculations by entering data on create new calculation form.
[Save as draft] or [Set to draft]	To save a calculation as a draft.
[Submit]	To submit a calculation record as a final.
[Save changes]	To update changes when editing calculation record.
[View detail]	To inspect a detail calculation records by opening a calculation detail form.
[Edit]	To update of calculation record.
[Preview and Print]	To preview and print the report.

### 2.3.7 Data structure

Field	Data Type	Data Length	Format	Mandatory	DB Mapping
<b>Basic Information (Product)</b>					
Product Registration Code	Varchar	50	N/A	Yes	OPLCalculation.ProductCode
Product Type	Nvarchar	200	N/A	Yes	ProductType.ProductType
Product Category	Varchar	100	N/A	Yes	ProductCategory.ProductCategory
Product Brand Code	Varchar	10	N/A	Yes	Product.BrandCode
Product Brand Name	Varchar	100	N/A	Yes	Product.BrandName
Product Model Code	Varchar	100	N/A	Yes	Product.ModelCode
Product Model Name	Varchar	100	N/A	Yes	Product.ModelName
Product Model Type	Varchar	100	N/A	Yes	Product.ModelType
Product Model Year	Date	N/A	mm-yyyy	Yes	Product.ModelYear
Transmission	Varchar	100	N/A	Yes	Product.Transmission
Fuel Type	Varchar	200	N/A	Yes	Product.FuelType
Displacement (cc)	Varchar	100	N/A	Yes	Product.DisPlacement
Usage	Varchar	100	N/A	No	OPLCalculation.Usage
Number Plate Color	Varchar	100	N/A	No	OPLCalculation.NumberPlateColor
Monthly Mileage	Int	N/A	N/A	No	OPLCalculation.MonthlyMileage
<b>Basic Information (Lease)</b>					
Customer Code	Varchar	10	N/A	Yes	OPLCalculation.CustomerCode

**Functional Specification: A.1 Marketing Module**

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	01 July 2015
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Customer Name	Varchar	200	N/A	Yes	Customer.CustomerName
Start Date Usage Unit Plan	Date	N/A	mm-dd-yyyy	Yes	OPLCalculation.StartPeriodPlan
End Date Usage Unit Plan	Date	N/A	mm-dd-yyyy	Yes	OPLCalculation.EndPeriodPlan
Lease Period Plan	Int	N/A	N/A	Yes	OPLCalculation.LeasePeriodPlan
Lease Category	Varchar	100	N/A	No	OPLCalculation.LeaseCategory
Previous Agreement Number	Varchar	100	N/A	No	OPLCalculation.ContractNumberReff
Maintenance Type	Varchar	100	N/A	No	OPLCalculation.MaintenanceType
Purchase Requirement After Lease	Bit	N/A	N/A	No	OPLCalculation.PurchaseAfterLease
Insurance	Bit	N/A	N/A	No	OPLCalculate.Insurance
Carroserie Type	Varchar	200	N/A	No	OPLCalculation.CarroserieType
Carroserie Price	Decimal	18,3	###,###,###.##	No	OPLCalculation.Carroserie
Accessories Type	Varchar	200	N/A	No	OPLCalculation.AccessoriesType
Accessories Price	Decimal	18,3	###,###,###.##	No	OPLCalculation.Accessories
<b>Cost Condition</b>					
Product Price	Decimal	18,3	###,###,###.##	No	OPLBasicCondition.ProductPrice
Dealer Discount	Decimal	18,3	###,###,###.##	No	OPLBasicCondition.ProductDiscount
ATPM Discount	Decimal	18,3	###,###,###.##	No	OPLBasicCondition.ATPMDiscoun
Accessories Price	Decimal	18,3	###,###,###.##	No	OPLBasicCondition.AccessoriesPrice
Accessories Supplier Discount	Decimal	18,3	###,###,###.##	No	OPLBasicCondition.AccessoriesDiscount
Carroserie Price	Decimal	18,3	###,###,###.##	No	OPLBasicCondition.CarroseriePrice
Carroserie Supplier Discount	Decimal	18,3	###,###,###.##	No	OPLBasicCondition.CarroserieDiscount
Product Price Total	Decimal	18,3	###,###,###.##	No	OPLBasicCondition.ProductPriceTotal
Accessories Price Total	Decimal	18,3	###,###,###.##	No	OPLBasicCondition.AccessoriesPriceTotal
Carroserie Price Total	Decimal	18,3	###,###,###.##	No	OPLBasicCondition.CarroseriePriceTotal
Residual Value Amount	Decimal	18,3	###,###,###.##	No	OPLBasicCondition.ResidualValueAmount
Residual Rate Value	Decimal	18,3	###,###,###.##	No	OPLBasicCondition.ResidualValuePercent

**Functional Specification: A.1 Marketing Module**

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	01 July 2015
Status	Baseline	Version	7.0
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Standard Residual Rate Value	Decimal	18,3	###,###,###.##	No	OPLBasicCondition.Sr esidualValuePercent



**DSF Finance Condition**

**Functional Specification: A.1 Marketing Module**

Project	Operating Lease Support System Development				
Author	Deny Prasetia	Date		01 July 2015	
Status	Baseline	Version		7.0	
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DP Before BAST	Decimal	18,3	###,###,###.##	No	OPLFinanceConditio. DPBeforeBASTCarros erie
DP Period to BAST	Int	N/A	N/A	No	OPLFinanceConditio. DPPeriodBASTCarros erie
Payment Settlement Before BAST	Decimal	18,3	###,###,###.##	No	OPLFinanceConditio. PSBeforeBASTCarros erie
Payment Settlement Period to BAST	Int	N/A	N/A	No	OPLFinanceConditio. PSPeriodBASTCarros erie
<b>Accessories Finance Condition</b>					
DP Before BAST	Decimal	18,3	###,###,###.##	No	OPLFinanceConditio. DPBeforeBASTAcces ories
DP Period to BAST	Int	N/A	N/A	No	OPLFinanceConditio. DPPeriodBASTAcceso ries
Payment Settlement Before BAST	Decimal	18,3	###,###,###.##	No	OPLFinanceConditio. PSBeforeBASTAcceso ries
Payment Settlement Period to BAST	Int	N/A	N/A	No	OPLFinanceConditio. PSPeriodBASTAcceso ries
<b>Registration Fee Condition</b>					
Registration Value Rate	Decimal	18,3	###,###,###.##	No	OPLFinanceConditio. RegistrationValueRat e
Registration Value Amount	Decimal	18,3	###,###,###.##	No	OPLFinanceConditio. RegistrationValueAm ount
<b>Maintenance Condition &amp; Cost</b>					
Maintenance Type	Varchar	100	N/A	No	OPLCalculation.Maint enanceType
Periodic Maintenance	Int	N/A	N/A	No	OPLMaintenanceCon dition.PeriodicMaint enanceKm
Oil Exchange	Int	N/A	N/A	No	OPLMaintenanceCon dition.PeriodicOilExc hange
Exchange Oil & Fats	Int	N/A	N/A	No	OPLMaintenanceCon dition.PeriodicOilFats
Regular Maintenance Amount	Decimal	18,3	###,###,###.##	No	OPLMaintenanceCon dition.PeriodicMaint enanceAmount
Irregular Maintenance Remarks	Varchar	100	N/A	No	OPLMaintenanceCon dition.IrregularMaint enance
Irregular Maintenance Amount	Decimal	18,3	###,###,###.##	No	OPLMaintenanceCon dition.IrregularMaint enanceAmount

**Functional Specification: A.1 Marketing Module**

Project	Operating Lease Support System Development				
Author	Deny Prasetia			Date	01 July 2015
Status	Baseline			Version	7.0
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Battery Maintenance	Int	N/A	N/A	No	OPLMaintenanceCondition.BateryKm
Battery Maintenance Amount	Decimal	18,3	###,###,###.##	No	OPLMaintenanceCondition.BateryAmount
Tire Maintenance	Int	N/A	N/A	No	OPLMaintenanceCondition.TireKm
Tire Maintenance Amount	Decimal	18,3	###,###,###.##	No	OPLMaintenanceCondition.TireAmount
Special Parts Maintenance	Varchar	100	N/A	No	OPLMaintenanceCondition.SpecialParts
Special Parts Maintenance Amount	Decimal	18,3	###,###,###.##	No	OPLMaintenanceCondition.SpecialPartsAmount
CSD Remarks	Varchar	100	N/A	No	OPLMaintenanceCondition.CSD
CSD Amount	Decimal	18,3	###,###,###.##	No	OPLMaintenanceCondition.CSDAmount
Other Maintenance 1 Remarks	Varchar	100	N/A	No	OPLMaintenanceCondition.MaintenanceOther1
Other Maintenance 1 Amount	Decimal	18,3	###,###,###.##	No	OPLMaintenanceCondition.MaintenanceOther1Amount
Other Maintenance 2 Remarks	Varchar	100	N/A	No	OPLMaintenanceCondition.MaintenanceOther2
Other Maintenance 2 Amount	Decimal	18,3	###,###,###.##	No	OPLMaintenanceCondition.MaintenanceOther2Amount
Other Maintenance 3 Remarks	Varchar	100	N/A	No	OPLMaintenanceCondition.MaintenanceOther3
Other Maintenance 3 Amount	Decimal	18,3	###,###,###.##	No	OPLMaintenanceCondition.MaintenanceOther3Amount
Total Maintenance Cost	Decimal	18,3	###,###,###.##	No	OPLMaintenanceCondition.TotalMaintenanceAmount
<b>Insurance Basic Information</b>					
Start Date of Insurance	Date	100	mm-dd-yyyy	No	OPLCalculation.StartPeriodPlan
End Date of Insurance	Date	18,3	mm-dd-yyyy	No	*calculation result at runtime
Coverage Period	Int	N/A	N/A	No	OPIInsuranceCondition.CoveragePeriod
Insurance Company	Varchar	100	N/A	No	OPIInsuranceCondition.InsuranceCompany
Insurance Agent	Varchar	100	N/A	No	OPIInsuranceCondition.InsuranceAgent

**Functional Specification: A.1 Marketing Module**

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	01 July 2015
Status	Baseline	Version	7.0
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Seat Capacity	Int	N/A	N/A	No	OPLInsuranceCondition.ProductSeatCapacity
Insurance Class	Varchar	50	N/A	No	OPLInsuranceCondition.ClassOfInsurance
Commission Rate	Decimal	18,6	###,###,###.##	No	OPLInsuranceCondition.CommissionRate
Insurance Payment Cycle	Varchar	100	N/A	No	OPLInsuranceCondition.InsurancePaymentCycle
Region	Nchar	10	N/A	No	OPLInsuranceCondition.Region
Remarks	Varchar	100	N/A	No	OPLInsuranceCondition.Remarks
<b>Insurance Condition Cost</b>					
Comprehensive Premium	Decimal	18,6	###,###,###.##	No	OPLInsuranceCondition.ComprehensiveRatePremium
Basic Premium Rate	Decimal	18,6	###,###,###.##	No	OPLInsuranceCondition.BasicRatePremium
Basic Premium Amount	Decimal	18,3	###,###,###.##	No	OPLInsuranceCondition.PremiumAmount
Comprehensive Third Party Liability (TPL)	Decimal	18,6	###,###,###.##	No	OPLInsuranceCondition.ComprehensiveRateTPL
Third Party Liability (TPL) Rate	Decimal	18,3	###,###,###.##	No	OPLInsuranceCondition.BasicRateTPL
Third Party Liability (TPL) Amount	Decimal	18,3	###,###,###.##	No	OPLInsuranceCondition.TPLAmount
Comprehensive Property Lost Liability (PLL)	Decimal	18,6	###,###,###.##	No	OPLInsuranceCondition.ComprehensiveRatePPL
Property Lost Liability (PLL) Rate	Decimal	18,3	###,###,###.##	No	OPLInsuranceCondition.BasicRatePPL
Property Lost Liability (PLL) Amount	Decimal	18,3	###,###,###.##	No	OPLInsuranceCondition.PPLAmount
Comprehensive Personal Accident for Passenger (PAP)	Decimal	18,6	###,###,###.##	No	OPLInsuranceCondition.ComprehensiveRatePAP
Personal Accident for Passenger (PAP) Rate	Decimal	18,3	###,###,###.##	No	OPLInsuranceCondition.BasicRatePAP
Personal Accident for Passenger (PAP) Amount	Decimal	18,3	###,###,###.##	No	OPLInsuranceCondition.PAPAmount
Comprehensive Personal Accident for Driver (PAD)	Decimal	18,6	###,###,###.##	No	OPLInsuranceCondition.ComprehensiveRatePAD
Personal Accident for Driver (PAD) Rate	Decimal	18,3	###,###,###.##	No	OPLMaintenanceCondition.BasicRatePAD
Personal Accident for Driver (PAD) Amount	Decimal	18,3	###,###,###.##	No	OPLMaintenanceCondition.PADAmount

**Functional Specification: A.1 Marketing Module**

Project	Operating Lease Support System Development				
Author	Deny Prasetia			Date	01 July 2015
Status	Baseline			Version	7.0
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Comprehensive Strike, Riots, Civil Commotions (SRCC)	Decimal	18,6	###,###,###.##	No	OPLInsuranceCondition.ComprehensiveRateSRCC
Strike, Riots, Civil Commotions (SRCC) Rate	Decimal	18,3	###,###,###.##	No	OPLInsuranceCondition.BasicRateSRCC
Strike, Riots, Civil Commotions (SRCC) Amount	Decimal	18,3	###,###,###.##	No	OPLInsuranceCondition.SRCCAmount
Comprehensive Terrorism & Sabotage (TS)	Decimal	18,6	###,###,###.##	No	OPLInsuranceCondition.ComprehensiveRateTS
Terrorism & Sabotage (TS) Rate	Decimal	18,3	###,###,###.##	No	OPLInsuranceCondition.BasicRateTS
Terrorism & Sabotage (TS) Amount	Decimal	18,3	###,###,###.##	No	OPLInsuranceCondition.TSAmount
Comprehensive Flood & Windstorm (FLD/W)	Decimal	18,6	###,###,###.##	No	OPLInsuranceCondition.ComprehensiveRateFLD
Flood & Windstorm (FLD/W) Rate	Decimal	18,3	###,###,###.##	No	OPLInsuranceCondition. BasicRateFLD
Flood & Windstorm (FLD/W) Amount	Decimal	18,3	###,###,###.##	No	OPLInsuranceCondition.FLDAmount
Comprehensive Earthquake & Tsunami (EAQ/T)	Decimal	18,6	###,###,###.##	No	OPLInsuranceCondition.ComprehensiveRateEAQ
Earthquake & Tsunami (EAQ/T) Rate	Decimal	18,3	###,###,###.##	No	OPLInsuranceCondition. BasicRateEAQ
Earthquake & Tsunami (EAQ/T) Amount	Decimal	18,3	###,###,###.##	No	OPLInsuranceCondition.EAQAmount
Comprehensive Authorized Workshop	Decimal	18,6	###,###,###.##	No	OPLInsuranceCondition.ComprehensiveRateAW
Authorized Workshop Rate	Decimal	18,3	###,###,###.##	No	OPLInsuranceCondition.BasicRateAW
Authorized Workshop Amount	Decimal	18,3	###,###,###.##	No	OPLInsuranceCondition.AWAmount
Insurance Total Gross Premium	Decimal	18,3	###,###,###.##	No	OPLInsuranceCondition.TotalGrossPremium
Insurance Net Premium	Decimal	18,3	###,###,###.##	No	OPLInsuranceCondition.NetPremium
Commission Amount	Decimal	18,3	###,###,###.##	No	OPLInsuranceCondition.ComissionAmount
Mediator Fee Amount	Decimal	18,3	###,###,###.##	No	OPLInsuranceCondition.MediatorFeeAmount
<b>Basic Information (Lease Fee)</b>					
Start Date Usage Unit Plan	Date	18,3	mm-dd-yyyy	No	OPLCalculation.StartPeriodPlan

**Functional Specification: A.1 Marketing Module**

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	01 July 2015
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End Date Usage Unit Plan	Date	N/A	mm-dd-yyyy	No	OPLCalculation.EndPeriodPlan
Lease Period Plan	Decimal	18,3	###,###,###.##	No	OPLCalculation.LeasePeriodPlan
Rate Insurance Income	Decimal	18,3	###,###,###.##	No	OPIInsuranceCondition.CommissionRate
Admin Fee Amount	Decimal	18,3	###,###,###.##	No	OPLFinanceCondition.AdministrationFeeAmount
Interest Income	Decimal	18,3	###,###,###.##	No	*calculation result at runtime
BAST Handover Schedule	Date	N/A	mm-dd-yyyy	No	OPLCalculation.BASTHandoverSchedule
Security Deposit Payment	Bit	N/A	N/A	No	OPLCalculation.SecurityDepositPayment
Security Deposit Amount	Decimal	18,3	###,###,###.##	No	OPLCalculation.SecurityDepositAmount
First Lease Payment	Int	N/A	###,###,###.##	No	OPLCalculation.FirstLeasePayment
Total Unit Quantity Lease	Int	N/A	N/A	No	OPLCalculation.TotalUnitQuantityLease
Special Case (Remarks)	Varchar	200	N/A	No	OPLCalculation.SpecialCaseRemarks
<b>Monthly Installment Setting</b>					
Ratio	Decimal	18,3	###,###,###.##	No	OPLCalculation.Ratio
Borrowing Rate	Decimal	18,3	###,###,###.##	No	OPLFinanceCondition.BorrowingEffectivePercent
Spread Interest Rate	Decimal	18,3	###,###,###.##	No	OPLFinanceCondition.SpreadEffectivePercent
Internal Interest Rate	Decimal	18,3	###,###,###.##	No	OPLFinanceCondition.PrimeEffectivePercent
<b>Confirmation of Lease Cost</b>					
Product Price Amount	Decimal	18,3	###,###,###.##	No	*calculation result at runtime
Residual Value Amount	Decimal	18,3	###,###,###.##	No	OPLBasicCondition.ResidualValueAmount
Registration Value Amount	Decimal	18,3	###,###,###.##	No	OPLFinanceCondition.RegistrationValueAmount
Maintenance Cost Amount	Decimal	18,3	###,###,###.##	No	OPLMaintenanceCondition.TotalMaintenanceAmount
Replacement Cost Amount	Decimal	18,3	###,###,###.##	No	OPLFinanceCondition.ReplacementCarAmount
Insurance Fee Amount	Decimal	18,3	###,###,###.##	No	OPIInsuranceCondition.TotalGrossPremium

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Mediator Fee Amount	Decimal	18,3	###,###,###.##	No	OPLInsuranceCondition.MediatorFeeAmount
Mobilization Fee Amount	Decimal	18,3	###,###,###.##	No	OPLFinanceCondition.MobilizationFeeAmount
Demobilization Fee Amount	Decimal	18,3	###,###,###.##	No	OPLFinanceCondition.DemobilizationFeeAmount
Interest Cost	Decimal	18,3	###,###,###.##	No	OPLCalculation.InterestExpense
Interest of Term of Payment Amount	Decimal	18,3	###,###,###.##	No	*calculation result at runtime
Interest of Payment Before BAST Amount	Decimal	18,3	###,###,###.##	No	OPLCalculation.InterestExpenseBAST
Total Cost	Decimal	18,3	###,###,###.##	No	OPLCalculation.TotalCost
Monthly Installment Standard (DSF)	Decimal	18,3	###,###,###.##	No	OPLCalculation.MonthlyInstallmentAmount
<b>Profit Result</b>					
Total Installment	Decimal	18,3	###,###,###.##	No	*calculation result at runtime
Insurance Income	Decimal	18,3	###,###,###.##	No	*calculation result at runtime
Total Income	Decimal	18,3	###,###,###.##	No	OPLCalculation.TotalIncome
Total Income After Lease Cost	Decimal	18,3	###,###,###.##	No	OPLCalculation.TotalIncomeAfterCost
<b>Audit Trail</b>					
Create By	Varchar	100	N/A	Yes	CreateBy
Create Date	Date time	N/A	mm-dd-yyyy:hh-mm:ss	Yes	CreateDate
Last Modified By	Varchar	100	N/A	Yes	LastModifiedBy
Last Modified	Date time	N/A	mm-dd-yyyy:hh-mm:ss	Yes	LastModified
<b>Status Management</b>					
Is Deleted	Bit	N/A	N/A	Yes	IsDeleted
Is Draft	Bit	N/A	N/A	Yes	IsDraft
Is Submitted	Bit	N/A	N/A	Yes	IsSubmitted
Is Valid	Bit	N/A	N/A	Yes	IsValid

## 2.4 Operating Lease Quotation

### 2.4.1 Use case

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

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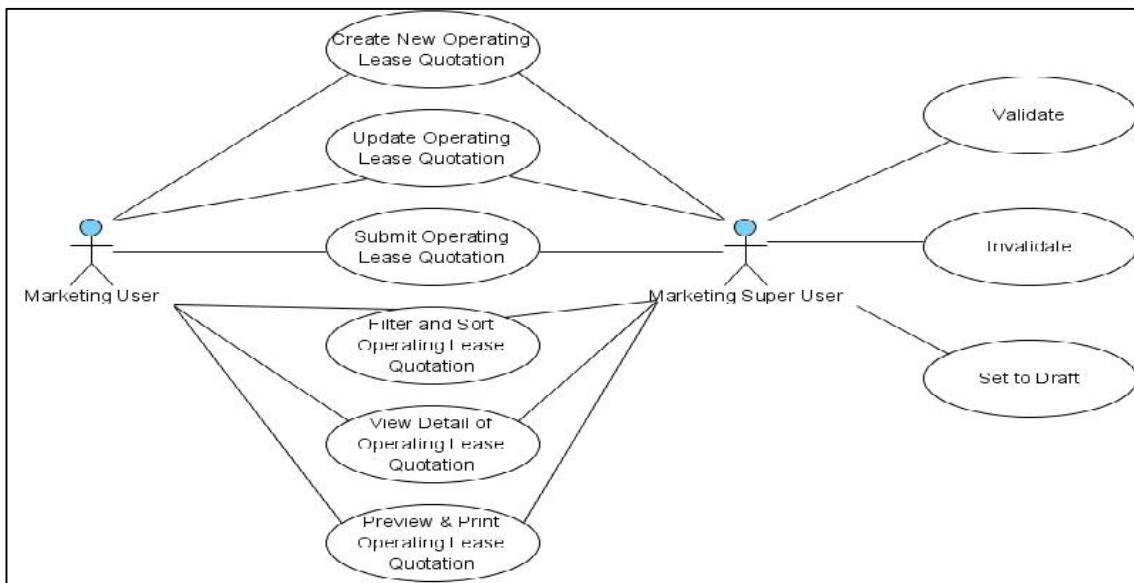


Figure 41 – Use case diagram of Operating Lease Quotation

### 2.4.2 Operations and scenarios

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

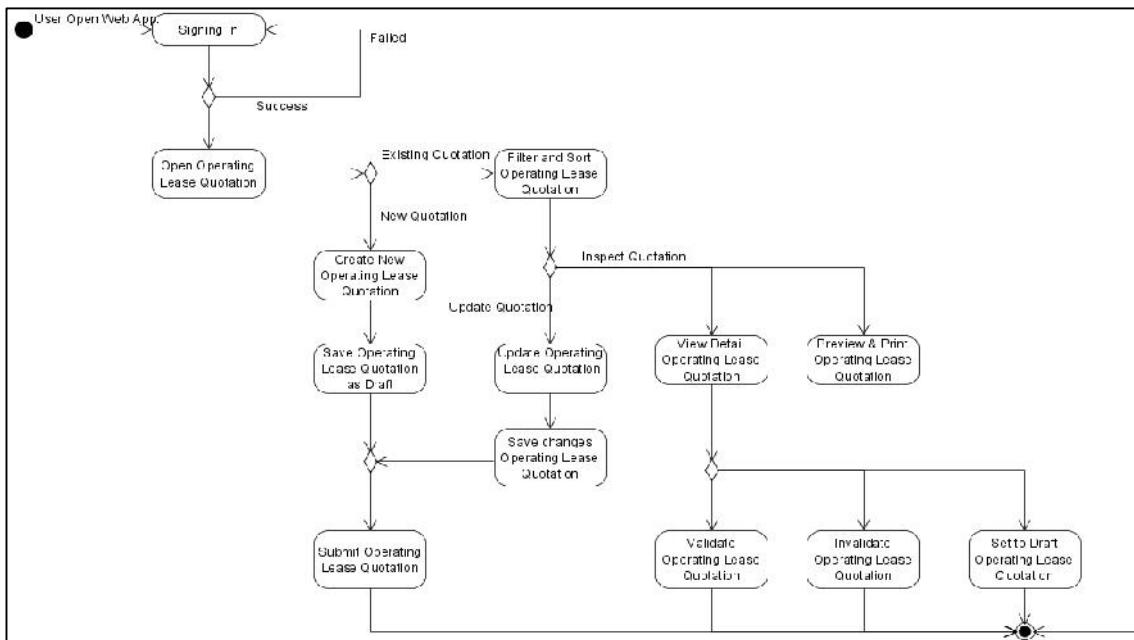


Figure 42 – Activity diagram of Operating Lease Quotation

No.	Steps/ Operations	Actor/ People	Scenario
1	Signing in	Marketing user,	<ul style="list-style-type: none"> <li>Actor fills out sign in form by inputting user name and password.</li> </ul>

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		Marketing super user	<ul style="list-style-type: none"> <li>Actor clicks [sign in] button. System will check the account of user; if user account is already registered user will enter into the system. If doesn't user can return the step.</li> </ul>
2.	Open operating lease quotation module	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>After login, actor can open operating lease quotation module on the menu of system. After that, the screen will be open.</li> <li>Once it is open, operating lease quotation list will be shown and existing data will be displayed.</li> </ul>
3.	Create new operating lease quotation	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>If list of operating lease quotation screen opens, actor can click [Create] button to create new quotation and after that create operating lease quotation screen will open. On this screen actor can specify the operating lease quotation records as basis to create the operating lease quotation.</li> <li>To specify the operating lease quotation records, click [...] button at calculation number, after that look-up window will be shown. These windows have features to search and select the calculation. At least one calculation must be selected. Once it done, actor can fill out other information on each field.</li> <li>The mandatory fields cannot be blank.</li> </ul>
4.	Save operating lease quotation as draft	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>After filling out the fields, actor can click [Save as draft] button, if want to make a records as <b><u>draft</u></b>.</li> <li>After that, system will proceed to store a data into database and will automatically check a validity of data (such as; data type, mandatory data, and data length)</li> <li>If done, actor can click [Back] button to return to the list of operating lease quotation, then operating lease quotation data will be displayed.</li> </ul>
5	Submit operating lease quotation record	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>Once data is saved and data has been confirmed, actor can submit the record by click [Submit] button.</li> <li>After that system will set an operating lease quotation record as <b><u>submitted (or not draft)</u></b>.</li> <li>If done, actor can click back button to return to the list of operating lease quotation.</li> </ul>
6.	Update operating lease quotation records	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>On the list of operating lease quotation screen actor can click [Edit] button to update the record by editing data on the edit screen.</li> <li>If the quotations still <b><u>draft</u></b>, <i>marketing user</i> can click [Edit] button on the right side of the records on list of operating lease quotation screen.</li> <li>If the quotation records already <b><u>submit</u></b> and the status is <b><u>valid</u></b>, <i>marketing user</i> cannot click [edit] button to open edit operating lease quotation screen.</li> <li>If edit screen opens, actor can edit a record by inputting a data on each of the fields.</li> </ul>

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			<ul style="list-style-type: none"> <li>The mandatory fields cannot be blank.</li> </ul>
7.	Filter and sort operating lease quotation records	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>Actor can filter and sort the record based on columns where displayed on the list.</li> <li>To filter the records, actor can enter keywords into the filter fields. If matched data founds, the result will be displayed on the list. If doesn't, the list will be empty.</li> <li>To sort the records, actor can click header of column on the list table. After that the records will be sorted by ascending or descending, alternately.</li> <li>Upon select [Record number filter]drop down list, actor can filter a record number to display on the list. At least only one item can be selected.</li> </ul>
8.	View detail operating lease quotation record	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>On the list of operating lease quotation screen actor can view detail an operating lease quotation on the view detail screen.</li> <li>To open view detail screen, actor can click [View detail] button, after that system will display a detail of operating lease quotation. On this screen, actor cannot do anything to edit of data. Only viewing the record.</li> <li>There are 2 conditions when view detail screen opens:           <ol style="list-style-type: none"> <li>If the quotation status is still <b>draft</b> or already <b>valid</b>, [Validate] button and [set to draft] button will be disappeared.</li> <li>If quotation status was <b>submitted</b>, [Validate] button and [Set to draft] button will be shown.</li> </ol> </li> <li>If done, actor can click back button to return to the list.</li> </ul>
9.	Validate Operating lease quotation	Marketing super user	<ul style="list-style-type: none"> <li>To do this process, actor should open view detail screen by clicking [View detail] button on the list. Once view detail screen opens, actor can change the status by clicking [validate] button. If quotation is already confirmed. After status changes to <b>valid</b>, actor cannot rollback the status to <b>submitted</b> or <b>draft</b>.</li> <li>After that, system will proceed automatically to change the status, and actor can click [Back] button to return to the list.</li> </ul>
10.	Invalidate Operating lease quotation	Marketing super user	<ul style="list-style-type: none"> <li>In this feature (for the worst case), if quotation were made inoperative/ not applicable, actor can change the status from <b>valid</b> to <b>not valid</b>.</li> <li>To do this process, actor should open view detail screen by clicking [View detail] button on the list. Once view detail screen opens, actor can change the status by clicking [Invalidate] button.</li> <li>After that, system will proceed automatically to change the status, and actor can click [Back] button to return to the list.</li> </ul>
11.	Set to Draft of Operating lease quotation	Marketing super user	<ul style="list-style-type: none"> <li>To utilize this feature; If quotation still need to be revised and status still not valid yet, actor can change</li> </ul>

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			the status from <b>submitted</b> to <b>draft</b> . <ul style="list-style-type: none"> <li>To do this process, actor should open view detail screen by clicking [View detail] button on the list. Once view detail screen opens, actor can change the status by clicking [set to draft] button.</li> <li>After that, system will proceed automatically to change the status, and actor can click [Back] button to return to the list.</li> </ul>
12.	Preview and print operating lease quotation	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>To do this process, actor can select the quotation record by clicking [Print preview] button, and after that the preview screen will be opened.</li> <li>Once preview screen opens, actor can click [Print] button to print the report.</li> </ul>

### 2.4.3 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 (submitted)	Submit	Validate	Preview & print
Marketing super user	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Marketing user	Yes	Yes	Yes	No	Yes	No	Yes

The figure below is describing transition of Status that performed when people interact in a function. In this features, validation (validate and invalidate) process triggered on the operating lease quotation module. If the quotation already validate, so the status of operating lease quotation will be valid too, and vice versa.

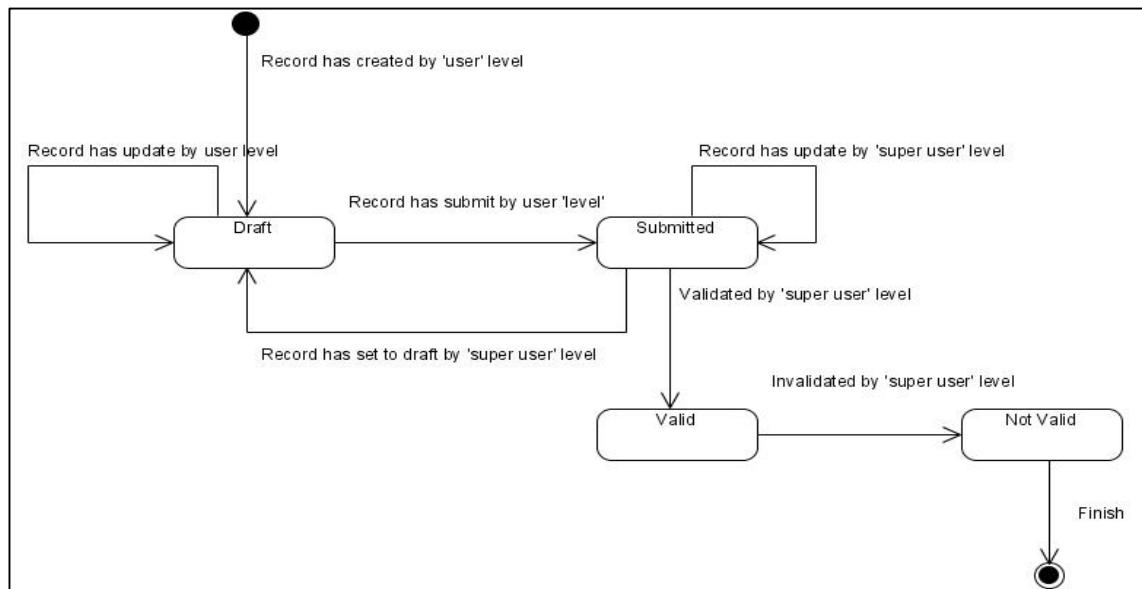


Figure 43 – Status diagram of Operating Lease Quotation

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## 2.4.4 Sitemap design

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



Figure 44 – Sitemap design of Operating Lease Quotation

## 2.4.5 Screen design

### 2.4.5.1 List of operating lease quotation

This screen is designed to display a list of operating lease quotation. On this list actor can filter and sort a records. And also, actor can open another screen to create new quotation record, update quotation record, and view detail quotation record.

The screenshot shows the 'Operating Lease Quotation' list screen. It includes the following elements:

- Create:** A button labeled '+Create' with a red box around it, pointing to a callout 'To create new records'.
- List of Operating Lease Quotation:** A table header with columns: Registration Code, Maintenance Type, Insurance Company, Total Gross Premium, Commission Amount, Net Premium, and Status. A red box surrounds the entire table area.
- Show:** A dropdown menu showing '10 entries' with a red box around it, pointing to a callout 'Displaying list'.
- Search:** A search input field with a red box around it, pointing to a callout 'To filter records'.
- Action:** A column of icons for each row, with a red box around it, pointing to a callout 'To open edit or view detail records'.
- Data paging information:** A footer section showing 'Showing 1 to 2 of 2 entries' and a set of navigation buttons ('First', 'Previous', '1', 'Next', 'Last') with a red box around it, pointing to a callout 'To open paging the records'.

Figure 45 – List of Operating Lease Quotation Screen

### 2.4.5.2 Create new operating lease quotation

This screen is designed to create new operating lease quotation record. After

PT. Berlian Sistem Informasi, 2015

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filling out necessary data on the screen, actor can store a data into the system by clicking the action button.

The screenshot shows the 'Create New Operating Lease Quotation' screen. The interface is organized into several sections:

- OPL Calculation Number:** Contains fields for 'OPL Calculation Number' and 'OPL Proposal Number'.
- OPL Quotation Number:** Contains fields for 'OPL Quotation Number', 'Customer Code', 'Customer Name', and 'OPL Quotation Date (mm/dd/yyyy)'.
- Basic Information (Product):** Contains fields for Product Registration Code, Product Type, Product Category, Product Brand Code, Product Brand Name, Product Model Code, Product Model Name, Product Model Type, Product Model Year (yyyy/mm), Transmission, Fuel Type, Displacement (CC), and Displacement.
- Quotation Information:** Contains fields for Monthly Rents, Down Payment, Pre-Paid Month Rent, Tax Amount, Expected Delivery Date (mm/dd/yyyy), Delivery Place, Additional Items, and Remarks.
- Action Buttons:** At the bottom left are 'Save as Draft' and 'Submit' buttons. To the right of these buttons is a label 'To save and navigate the quotation data'.

Figure 46 – Screen of Create New Operating Lease Quotation Screen

### 2.4.5.3 Update operating lease quotation

This screen is designed to update operating lease quotation. After changes some

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data on the screen, actor can store a data into the system by click the action button.

The screenshot shows the 'Update Operating Lease Quotation' screen. At the top, there are navigation buttons: 'Back' (highlighted with a red box), 'Return back to list of operating lease quotation' (highlighted with a red box), 'To entry a quotation data' (highlighted with a red box), and a 'Valid' button. The header contains fields for 'Created by' (Abdul Somad Zaini), 'Created Date' (01/01/2014), 'Last Modified By' (Abdul Somad Zaini), and 'Last Modified Date' (01/01/2014). Below the header are two rows of input fields: 'OPL Calculation Number' and 'OPL Proposal Number' (both with 'Example' placeholder), 'OPL Quotation Number' and 'Customer Code' (both with 'Example' placeholder), 'Customer Name' and 'OPL Quotation Date (mm/dd/yyyy)' (both with 'Example' placeholder), 'Start Period Plan (mm/dd/yyyy)', 'End Period Plan (mm/dd/yyyy)', 'Lease Period Plan (Months)', and 'Valid Until (mm/dd/yyyy)' (all with 'Example' placeholder). The next section is 'Basic Information (Product)' with six pairs of input fields: 'Product Registration Code' and 'Product Type' (both with 'Example' placeholder), 'Product Brand Code' and 'Product Brand Name' (both with 'Example' placeholder), 'Product Model Name' and 'Product Model Type' (both with 'Example' placeholder), 'Product Model Year (yyyy/mm)' and 'Displacement (CC)' (both with 'Example' placeholder), 'Transmission' and 'Fuel Type' (both with 'Example' placeholder). The final section is 'Quotation Information' with five pairs of input fields: 'Monthly Rents' and 'Down Payment' (both with 'Rp Example' placeholder), 'Pre-Paid Month Rent' and 'Expected Delivery Date (mm/dd/yyyy)' (both with 'Rp Example' placeholder), 'Tax Amount' and 'Delivery Place' (both with 'Rp Example' placeholder), 'Additional Items' (with a large text area placeholder), and 'Remarks' (with a text area placeholder). At the bottom, there are two buttons: 'Save as Draft' (highlighted with a red box) and 'Submit' (highlighted with a red box), and a note 'To save and navigate the calculation data' (highlighted with a red box).

Figure 47 – Screen of Update Operating Lease Quotation Screen

#### 2.4.5.4 View detail operating lease quotation

This screen is designed to view detail operating lease quotation. On this screen

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actor can change status of a operating lease quotation by clicking action button.

The screenshot displays a form for viewing and managing an operating lease quotation. At the top, there are navigation buttons: a 'Back' button, a link to 'Return back to list of operating lease calculation', and a button to 'To entry a calculation data'. A green 'Valid' badge is visible in the top right corner. The main area contains several sections of data:

- Basic Information (Product):** This section includes pairs of labels and input fields such as Product Registration Code, Product Type, Product Category; Product Brand Code, Product Brand Name, Product Model Code; Product Model Name, Product Model Type, Product Model Year (yyyy/mm); and Transmission, Fuel Type, Displacement (CC).
- Quotation Information:** This section includes pairs of labels and input fields such as Monthly Rents, Down Payment, Pre-Paid Month Rent; Tax Amount, Expected Delivery Date (mm/dd/yyyy), Delivery Place; Additional Items, and Remarks.

At the bottom left, there are two buttons: 'Save as Draft' (blue) and 'Submit' (dark blue). A red box highlights the 'Submit' button and the text 'To save and navigate the calculation data' located below the buttons.

Figure 48 – Screen of View Detail Operating Lease Quotation

#### 2.4.5.5 Preview and print operating lease quotation

This screen is designed to view report operating lease quotation. On this screen

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actor can print and save report as pdf or excel file by clicking action button.

The screenshot shows the 'Operating Lease Quotation' screen. At the top right, there are two red boxes: one labeled 'Save As button' pointing to a dropdown menu icon, and another labeled 'Print button' pointing to a printer icon. Below the header, there is a logo for 'DIPOL STAR FINANCE' and company details: SENTRAL SENAYAN 2, 3RD FLOOR, JL. ASIA AFRIKA No. 8, SENAYAN, JAKARTA. Tel: (021) 57954100, Fax: (021) 57954075. There are also fields for 'Date' and 'No.'.

The main form area contains several sections:

- (1) Description of the Leased Property (Vehicle)**: A table with columns for Manufacturer/Name, Grade, Model Code, Transmission, Color, Accessories and Options, Displacement, Engine, Passengers, Payload, Type Karoseri, Residual Value, and New / Used.
- (2) Term**: A field for months.
- (3) Expected Delivery Date**: A field for the date.
- (4) Monthly Kilometer**: A field for kilometers.
- (5) Monthly Rent**: A field for rent.
- (6) Delivery Place**: A field for delivery location.
- (7) Type of Lease Agreement**: A table with columns for Finance Items (Cost of Vehicle, Accessories and Options, Registration Charges, Annual Tax, Compulsory Third Party Insurance) and Additional Items (Spare Car for Inspection over 24 hours except accident, Spare Car for repairing in case of Accident, Roadside Assistance, Emergency Telephone Service). It includes a 'Remarks' section and a red box labeled 'layout report following sample'.
- (8) Comprehensive Motor Insurance**: A table with columns for Insurance Types (Third Party Liability (Bodily Injury or Death of Person), Third Party Liability (Property Damage), Personal Accident (Death) - Driver 1 person, Personal Accident (Death) - Passengers, Medical Expense, Bail Bond, Automobile Sum Insured (Damage on the Vehicle by collision, fire and theft)) and Premium Values (IDR 100,000 per person per accident, IDR 100,000 per accident, IDR 100,000 per person per accident, IDR 100,000 per person per accident, IDR 100,000 per accident, IDR 100,000 per accident, IDR 100,000 per accident). A red box highlights 'Comprehensive value, not premi'.
- (9) Remarks**: A field for remarks, with a red box highlighting 'Basic premium value'.

At the bottom, there are footer links: PT. Dipo Star Finance, We agreed and accepted this Quotation, and two signature lines.

Figure 49 – Screen of Preview and Print Operating Lease Quotation Screen

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#### 2.4.6 Screen features

Features	Description
[Filter and sort]	To perform data filtering and data sorting of calculation records.
[Create new]	To create new operating lease quotation by entry data on create new form.
[Save as draft] or [Set to draft]	To save a quotation as a draft.
[Submit]	To submit a quotation record as a final.
[Save changes]	To update of changes when editing operating lease quotation record.
[View detail]	To inspect a detail operating lease quotation records by opens a view detail form.
[Edit]	To update of operating lease quotation record.
[Validate]	To validate of operating lease quotation.
[Preview and Print]	To preview and print the report.

#### 2.4.7 Data structure

Field	Data Type	Data Length	Format	Mandatory
<b>Quotation Identity</b>				
OPL Calculation Number	Text	50	N/A	Yes
OPL Proposal Number	Text	50	N/A	Yes
OPL Quotation Number	Text	50	N/A	Yes
OPL Quotation Date	Date	N/A	mm-yyyy	Yes
<b>Product Basic Information</b>				
Product Registration Code	Text	50	N/A	Yes
Product Type	Text	100	N/A	Yes
Product Category	Text	50	N/A	Yes
Product Brand Code	Text	50	N/A	Yes
Product Brand Name	Text	100	N/A	Yes
Product Model Code	Text	100	N/A	Yes
Product Model Name	Text	100	N/A	Yes
Product Model Type	Text	100	N/A	Yes
Product Model Year	Date	N/A	mm-yyyy	Yes
Transmission	Text	100	N/A	Yes
Fuel Type	Text	100	N/A	Yes
Displacement (cc)	Text	100	N/A	Yes
<b>Quotation Information</b>				
Customer Code	Text	10	N/A	Yes
Customer Name	Text	100	N/A	Yes
Valid Until	Date	N/A	mm-dd-yyyy	No

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Start Period Plan	Date	N/A	mm-dd-yyyy	No
End Period Plan	Date	N/A	mm-dd-yyyy	No
Lease Period Plan	Number	N/A	N/A	No
Terms	Text	200	N/A	No
Expected Delivery Date	Date	N/A	mm-dd-yyyy	No
Delivery Place	Text	100	N/A	No
Monthly Rents	Decimal	18,3	###,###,###.##	No
Down Payment	Decimal	18,3	###,###,###.##	No
Pre-Paid Month Rent	Decimal	18,3	###,###,###.##	No
Payment Amount	Decimal	18,3	###,###,###.##	No
Tax Amount	Decimal	18,3	###,###,###.##	No
Additional Items	Text	200	N/A	No
Remarks	Text	200	N/A	No
<b>Audit Trail</b>				
Create By	Text	100	N/A	Yes
Create Date	Date time	N/A	mm-dd-yyyy:hh-mm:ss	No
Last Modified By	Text	100	N/A	Yes
Last Modified	Date time	N/A	mm-dd-yyyy:hh-mm:ss	No
<b>Status Management</b>				
Is Deleted	Yes/No	N/A	N/A	Yes
Is Draft	Yes/No	N/A	N/A	Yes
Is Submitted	Yes/No	N/A	N/A	Yes
Is Valid	Yes/No	N/A	N/A	Yes

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## 2.5 Agreement Information Inquiry

### 2.5.1 Use case

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

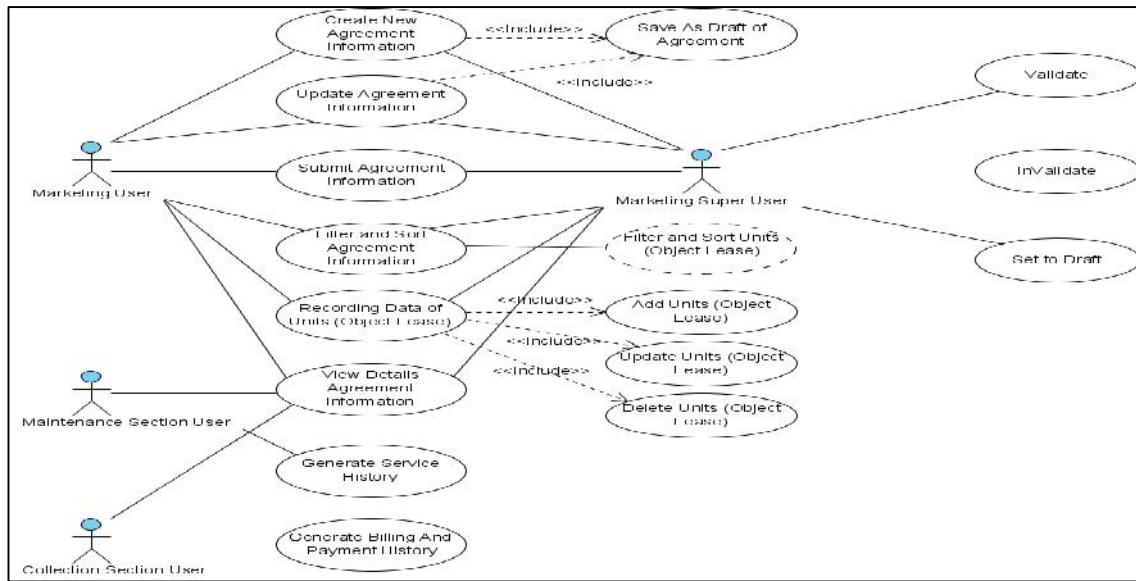


Figure 50 – Use case diagram of Agreement Information Inquiry

### 2.5.2 Operations and scenarios

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

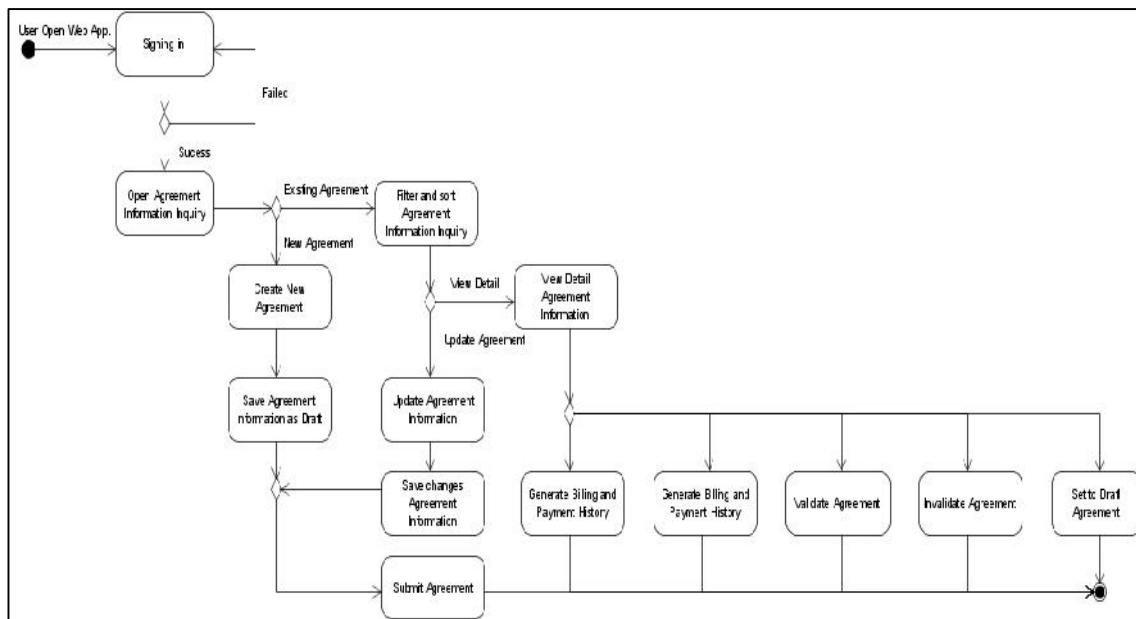


Figure 51 – Activity diagram of Agreement Information Inquiry

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No.	Steps/ Operations	Actor/ People	Scenario
1	Signing in	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>Actor fills out sign in form by inputting user name and password.</li> <li>Actor clicks [sign in] button. System will check the account of user; if user account is already registered user will enter into the system. If doesn't user can return the step.</li> </ul>
2.	Open agreement information inquiry module	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>After login, actor can open agreement information inquiry module on the menu of system. After that, the screen will be open.</li> <li>Once it is open, agreement information list will be shown and existing data will be displayed.</li> </ul>
3.	Create new agreement information inquiry	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>If list of agreement information screen opens, actor can click [Create] button to create new data and after that agreement screen will be open. Once it open, actor can specify quotation number as reference for data input.</li> <li>To specify the quotation, click [...] button at quotation number, after that look-up window will be shown. These windows have features to search and select the calculation. At least one quotation must be selected.</li> <li>Once it done, actor can fill out other information on each field. The mandatory fields cannot be blank.</li> </ul>
4.	Save operating lease agreement as draft	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>After filling out the fields, actor can click [Save as draft] button, if want to make a records as <u>draft</u>.</li> <li>After that, system will proceed to store a data into database and will automatically check a validity of data (such as; data type, mandatory data, and data length)</li> <li>If done, actor can click [Back] button to return to the list of agreement, then agreement data will be displayed.</li> </ul>
5	Submit operating lease agreement record	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>Once data is saved and data has been confirmed, actor can submit the record by click [Submit] button.</li> <li>After that system will set an agreement record as <u>submitted (or not draft)</u>.</li> <li>If done, actor can click [Back] button to return to the list of agreement.</li> </ul>
6.	Update operating lease agreement	Marketing user,	<ul style="list-style-type: none"> <li>On the list of agreement screen actor can click [Edit] button to update the record by editing data on the edit</li> </ul>

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	records	Marketing super user	<p>screen.</p> <ul style="list-style-type: none"> <li>If the agreement still <b><u>draft</u></b>, user can click [Edit] button on the right side of the records on list of agreement screen.</li> <li>If the agreement records already <b><u>submit</u></b> and the status is <b><u>valid</u></b>, <i>marketing user</i> cannot click [edit] button to open edit agreement screen.</li> <li>If edit screen opens, actor can edit a record by inputting a data on each of the fields. The mandatory fields cannot be blank.</li> </ul>
7.	Filter and sort operating lease agreement records	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>Actor can filter and sort the record based on columns where displayed on the list.</li> <li>To filter the records, actor can enter keywords into the filter fields. If matched data founds, the result will be displayed on the list. If doesn't, the list will be empty.</li> <li>To sort the records, actor can click header of column on the list table. After that the records will be sorted by ascending or descending, alternately.</li> <li>Upon select [Record number filter]drop down list, actor can filter a record number to display on the list. At least only one item can be selected.</li> </ul>
8.	View detail operating lease agreement record	Marketing user, Marketing super user	<ul style="list-style-type: none"> <li>On the list of agreement actor can view detail agreement information on the view detail screen.</li> <li>To open view detail screen, actor can click [View detail] button, after that system will display a detail of agreement. On this screen, actor cannot do anything to edit of data. Only viewing the record.</li> <li>There are2 conditions when view detail screen opens:             <ol style="list-style-type: none"> <li>If the agreement status is still <b><u>draft</u></b> or already <b><u>valid</u></b>, [Validate] button and [set to draft] button will be disappeared.</li> <li>If the agreement status was <b><u>submitted</u></b>,[Validate] button and [Set to draft] button will be shown.</li> </ol> </li> <li>If done, actor can click back button to return to the list.</li> </ul>
9.	Validate Operating lease agreement	Marketing super user	<ul style="list-style-type: none"> <li>To do this process, actor should open view detail screen by clicking [View detail] button on the list. Once view detail screen opens, actor can change the status by clicking [validate] button. If quotation is already confirmed. After status changes to <b><u>valid</u></b>, actor cannot rollback the status to <b><u>submitted</u></b> or <b><u>draft</u></b>.</li> </ul>

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			<ul style="list-style-type: none"> <li>After that, system will proceed automatically to change the status, and actor can click [Back] button to return to the list.</li> </ul>
10.	Invalidate Operating lease agreement	Marketing super user	<ul style="list-style-type: none"> <li>In this feature (for the worst case), if quotation were made inoperative/ not applicable, actor can change the status from <b>valid</b> to <b>not valid</b>.</li> <li>To do this process, actor should open view detail screen by clicking [View detail] button on the list. Once view detail screen opens, actor can change the status by clicking [Invalidate] button.</li> <li>After that, system will proceed automatically to change the status, and actor can click [Back] button to return to the list.</li> </ul>
11.	Generate Service History	Maintenance Section user	<ul style="list-style-type: none"> <li>Once agreement already validate, user can generate service schedule based on maintenance condition and quantity of units on the agreement. The schedule will be generated base on ach of units as many as number of lease period with the status of Service History is Draft.</li> </ul>
12.	Generate Billing Payment History	Collection Section user	<ul style="list-style-type: none"> <li>Once agreement already validate, user can generate billing payment schedule base on payment condition on the agreement. The payment schedule will be generated base on ach of units as many as number of lease period with the status of Service History is Draft.</li> </ul>

#### 2.5.3 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 (submitted)	Submit	Validate	Preview & print
Marketing super user	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Marketing user	Yes	Yes	Yes	No	Yes	No	Yes

The figure below is describing transition of Status that performed when people interact in a function. In this features, validation (validate and invalidate) process triggered on the operating lease agreement module. If the quotation already validate, so the status of operating lease agreement will be valid too, and vice versa.

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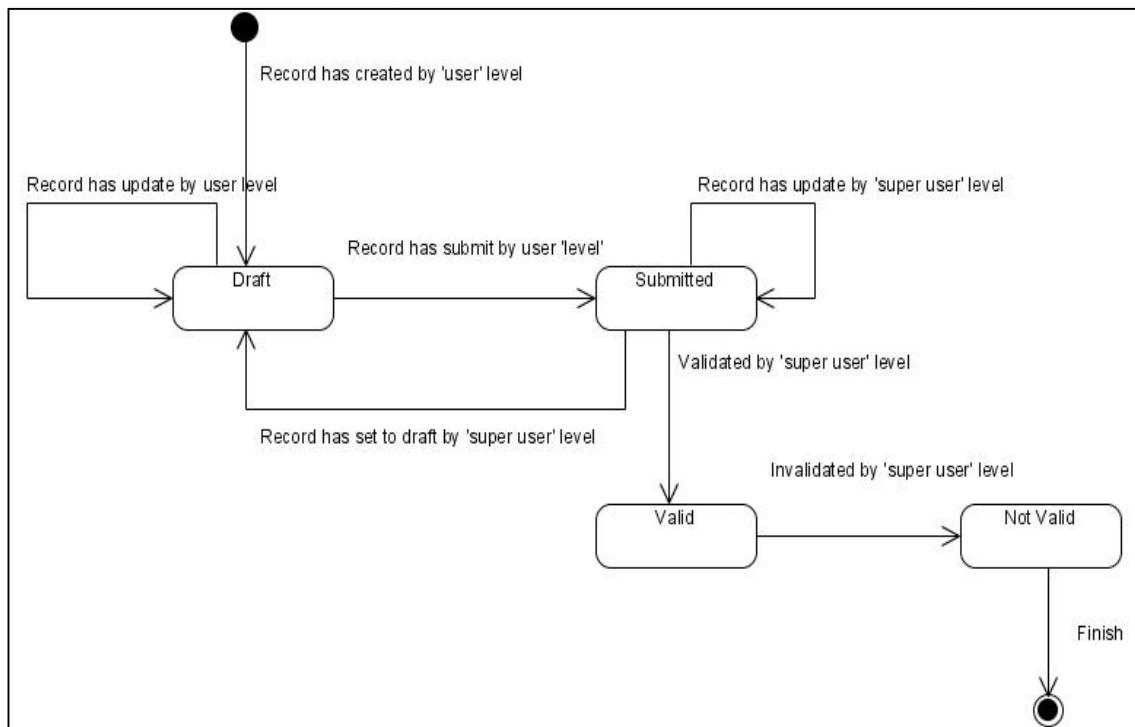


Figure 52 – Status diagram of Operating Lease Agreement

### 2.5.4 Sitemap design

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

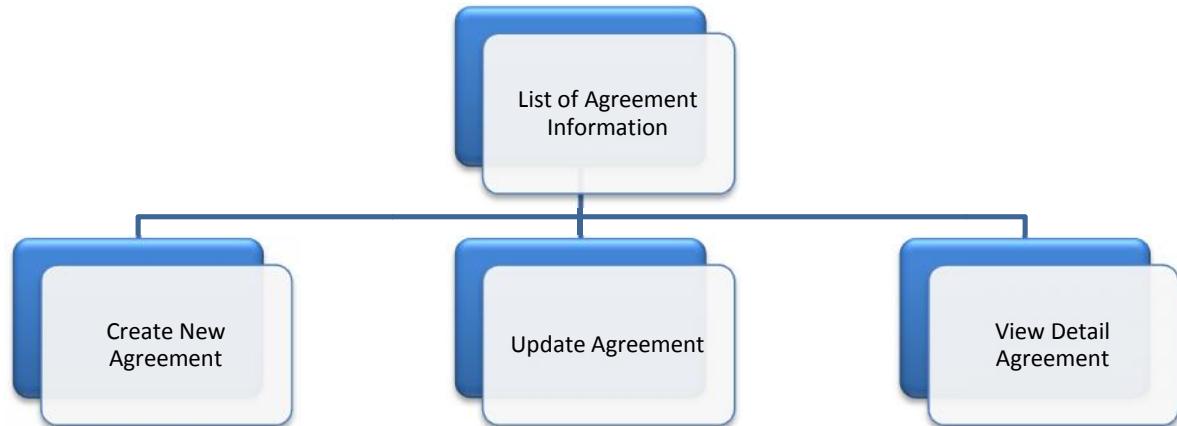


Figure 53 – Sitemap design of Operating lease agreement

### 2.5.5 Screen design

#### 2.5.5.1 List of agreement information inquiry

This screen is designed to display a list of operating lease agreement. On this list actor can filter and sort a records. And also, actor can open another screen to create new quotation record, update quotation record, and view detail quotation record.

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**Agreement Information Inquiry**

Agreement list							
Agreement Number	Agreement Date	Customer Name	Brand Name	Model Name	Expired Date	Status	Action
000100AN01/11/2014	10/10/2014	PT. KRM	Pajero	Exceed	10/10/2015	Valid	Details
000090AN01/11/2014	11/01/2014	PT. KRM	Mirage	Exceed	11/01/2015	Valid	Details
000080AN01/11/2014	10/10/2014	PT. KRM	Pajero	Exceed	10/10/2015	Valid	Details
000070AN01/11/2014	11/01/2014	PT. KRM	Mirage	Exceed	11/01/2015	Valid	Details
000060AN01/11/2014	10/10/2014	PT. KRM	Pajero	Exceed	10/10/2015	Valid	Details
000050AN01/11/2014	11/01/2014	PT. KRM	Mirage	Exceed	11/01/2015	Valid	Details
000040AN01/11/2014	10/10/2014	PT. KRM	Pajero	Exceed	10/10/2015	Valid	Details
000030AN01/11/2014	11/01/2014	PT. KRM	Mirage	Exceed	11/01/2015	Valid	Details
000020AN01/11/2014	10/10/2014	PT. KRM	Pajero	Exceed	10/10/2015	Valid	Details
000010AN01/11/2014	11/01/2014	PT. KRM	Mirage	Exceed	11/01/2015	Valid	Details

Showing 1 to 10 of 18 entries Data paging information To open paging the records

First Previous 1 2 Next Last

Figure 54 – Screen of Agreement Information Inquiry List

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### 2.5.5.2 Create new agreement

This screen is designed to create new agreement record. After filling out necessary data on the screen, actor can store a data into the system by clicking the action button.

The screenshot shows the 'Agreement Information' screen with several annotations:

- To entry a quotation data**: Points to the 'Quotation Number' field.
- Value of [BAST Date] and [Start Date Usage Unit] can be same**: Points to the 'BAST Date' and 'Start Date Usage Unit' fields.
- Will be filled automatically**: Points to the 'Number of Payment (Numbers)' field, indicating it is calculated from other inputs.
- To add new records**: Points to the 'Add' button in the 'List of Unit (Object Lease)' section.
- To open view detail and delete a records**: Points to the 'Action' column in the 'List of Unit (Object Lease)' table.
- Data paging information**: Points to the 'Showing 1 to 5 of 8 entries' and 'First | Previous | Next | Last' buttons at the bottom.
- To open paging the records**: Points to the 'Save as Draft' and 'Submit' buttons at the bottom.
- To save and navigate the quotation data**: Points to the 'Save as Draft' and 'Submit' buttons at the bottom.

Police Number/Invoice Number	Engine Number	Carroseriel/Accessories	Action
B 3402 KAN	00001/INV/11/2014	Dump Truck, GPS	Details   Delete
B 1843 TZV	00002/INV/11/2014	GPS	Details   Delete
B 3435 QZR	00001/INV/11/2014	Dump Truck, GPS	Details   Delete
B 6434 TZV	00002/INV/11/2014	GPS	Details   Delete
B 5402 KAN	00001/INV/11/2014	Dump Truck, GPS	Details   Delete

Figure 56 – Screen of Agreement Information Inquiry List

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Add Unit (Object Lease)

Police / Invoice Number	Police Number / Invoice Number	Value of [Carrosserie] will be filled automatically by system
Engine Number	Engine Number	
Carrosserie	Carrosserie	
Accessories	Bumper Racing	Value of [Accessories] will be filled automatically by system

**Close** **Add**

The screenshot shows a user interface for adding a unit object lease. It has four input fields: Police / Invoice Number, Engine Number, Carrosserie, and Accessories. The Carrosserie and Accessories fields are highlighted with red boxes and arrows pointing to a note stating they will be filled automatically by the system. There are 'Close' and 'Add' buttons at the bottom.

Figure 57 – Screen of Add Unit Object Lease Agreement

#### 2.5.5.3 Update agreement information

This screen is designed to update agreement quotation. After changes some data on the screen, actor can store a data into the system by click the action button.

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**Agreement Information**

To entry a quotation data

Quotation Number	Agreement Number	Previous Agreement Number	Agreement Date (mm/dd/yyyy)
Marketing Officer PIC Name	Marketing Officer PIC Position	Marketing Officer PIC Phone	Marketing Officer PIC Email
Customer Name	BAST Date (mm/dd/yyyy)	Start Date Usage Unit (mm/dd/yyyy)	End Date Usage Unit (mm/dd/yyyy)
Lease Period (Month)	BAST Date (mm/dd/yyyy)	Start Date Usage Unit (mm/dd/yyyy)	End Date Usage Unit (mm/dd/yyyy)
Payment Condition			
Lease Category	Insurance	Purchase Required	Payment Transaction
First Due Date of Usage Unit (mm/dd/yyyy)	Term of Payment (Days)	First Due Date Of Payment (mm/dd/yyyy)	Transfer
First Due Date of Usage Unit (mm/dd/yyyy)	Term of Payment (Days)	First Due Date Of Payment (mm/dd/yyyy)	Issue of Invoices Date (mm/dd/yyyy)
Monthly Installment	Deposit Amount	Number of Payment (Numbers)	Deposit Payment Date (mm/dd/yyyy)
RD	Deposit Amount	Number of Payment (Numbers)	Deposit Payment Date (mm/dd/yyyy)
Deposit Return Date (mm/dd/yyyy)	Interest Penalty (%)	Interest Penalty (%)	Deposit Payment Date (mm/dd/yyyy)
Deposit Return Date (mm/dd/yyyy)	Interest Penalty (%)	Interest Penalty (%)	Deposit Payment Date (mm/dd/yyyy)
Maintenance Condition			
Product Registration Code	Product Brand Name	Product Model Name	Model Year (yyyy/MM)
Maintenance Type	Usage	Accessories	Model Year (yyyy/MM)
Full Maintenance	City	Yes	Current
Contract Mileage (per Month)	Oil Exchange Mileage (KM/Month)	Regular Maintenance (KM/Month)	Yes
Contract Mileage (per Month)	Oil Exchange Mileage (KM/Month)	Regular Maintenance (KM/Month)	Lubricants, Fats (KM/Month)
Km	Km	Km	Lubricants, Fats (KM/Month)
Battery Change	Tire Change	Customer Service Desk (CSD)	General / Others Maintenance
Battery Change	Tire Change	Customer Service Desk (CSD)	Yes
STNK Renewal	STNK Renewal Date Schedule (mm/dd/yyyy)	KLUR Renewal	KLUR Renewal Date Schedule (mm/dd/yyyy)
Yes	STNK Renewal Date Schedule (mm/dd/yyyy)	Yes	KLUR Renewal Date Schedule (mm/dd/yyyy)
Break Down Special Contract	Break Down Special Contract Remarks	Replacement Unit	KLUR Renewal Date Schedule (mm/dd/yyyy)
Yes	Break Down Special Contract Remarks	Yes	KLUR Renewal Date Schedule (mm/dd/yyyy)
List of Unit (Object Lease)			
Add	To add new records		
To open view detail and delete a records			
Showing 1 to 5 of 8 entries		Data paging information	To open paging the records
Save as Draft		Submit	
To save and navigate the quotation data			

Figure 58 – Screen of Update Agreement Information

### 2.5.5.4 View detail agreement

This screen is designed to view detail agreement information. On this screen actor can change status of a operating lease quotation by clicking action button.

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Agreement Information									
To entry a quotation data									
Quotation Number	Quotation Number	...	Agreement Number	Agreement Number	Prev. Agree. Number	Prev. Agree. Number	Agreement Date	(mm/dd/yyyy)	...
Sales PIC Name	Sales PIC Name	Sales PIC Position	Sales PIC Position	Sales PIC Phone	Sales PIC Position	Sales PIC Email	Sales PIC Email		
Customer Name	Customer Name	Contract Start Date	(mm/dd/yyyy)	...	Contract Expired Date	(mm/dd/yyyy)	...	Lease Period (Months)	Lease Period (Months)
Payment Condition									
Lease Category	Lease Category	Insurance	Yes	▼	Purchase Required	Purchase Required	Payment Transaction	Transfer	▼
First Due Date of Usage Unit	(mm/dd/yyyy)	Due Date of First Payment	(mm/dd/yyyy)	...	Term of Payment (Days)	(Days)	Issue of Invoices Date	(mm/dd/yyyy)	...
Monthly Inst.	Rp.	Deposit Amount	Rp.	Number of Payment (Numbers)	1		Deposit Payment Date	(mm/dd/yyyy)	...
Deposit Return Date	(mm/dd/yyyy)	Interest Penalty (%)	Interest Penalty (%)						
Maintenance Condition									
Product Registration Code	Product Registration Code	Product Brand	Product Brand	Product Model	Product Brand	Model Year (yyyy/mm)	Model Year		
Maintenance Type	Maintenance Type	Usage	Usage	Accessories	Yes	▼	Carrosserie	Yes	▼
Contract Mileage (per Months)	Contract Mileage	Actual Mileage (per Months)	Actual Mileage	Regular Maint. (KM/Months)	Regular Main.(Km)	Lubricants, Fats (KM/Months)	Lubricants, Fats		
Battery Change	Battery Change	Tire Change	Tire Change	Customer Service Desk (CSD)	Cust. Serv. Desk (CSD)	General/ Others Maintenance	Yes	▼	
STNK Renewal	Yes	STNK Renewal Date Sched.	(mm/dd/yyyy)	...	KEUR Renewal	Yes	▼	KEUR Renewal Date Sched.	(mm/dd/yyyy)
Break Down Special Contract	Yes	Break Down Special Contract Remarks		Replacement Unit	Yes	▼	Replacement Unit Remarks		
List of Unit (Object Lease)									
Add	To add new records				To open view detail and delete a records				
Police Number/Invoice Number	Engine Number	Carrosserie/ Accessories			Action				
B 3402 KAN	00001/INV/11/2014	Dump Truck, GPS			Details   Delete				
B 1843 TZV	00002/INV/11/2014	GPS			Details   Delete				
B 3435 QZR	00001/INV/11/2014	Dump Truck, GPS			Details   Delete				
B 6434 TZV	00002/INV/11/2014	GPS			Details   Delete				
B 5402 KAN	00001/INV/11/2014	Dump Truck, GPS			Details   Delete				
Showing 1 to 5 of 8 entries		Data paging information			To open paging the records				
Save as Draft		Submit			To save and navigate the quotation data				
First		Previous			1 2 Next Last				

Figure 59 – Screen of Details Agreement Information

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## 2.5.6 Screen features

Features	Description
[Filter and sort]	To perform data filtering and data sorting of calculation records.
[Create new]	To create new operating lease quotation by entry data on create new form.
[Save as draft] or [Set to draft]	To save a quotation as a draft.
[Submit]	To submit a quotation record as a final.
[Save changes]	To update of changes when editing operating lease quotation record.
[View detail]	To inspect a detail operating lease quotation records by opens a view detail form.
[Edit]	To update of operating lease quotation record.
[Validate]	To validate of operating lease quotation.
[Preview and Print]	To preview and print the report.

## 2.5.7 Data structure

Field	Data Type	Data Length	Format	Mandatory	DB Mapping
<b>Agreement Information</b>					
Quotation Number	Varchar	50	N/A	Yes	OPLAgreementDetails.OPLQuotationNumber
Agreement Number	Varchar	50	N/A	Yes	OPLAgreement.AgreementNumber
Previous Agreement Number	Varchar	100	N/A	No	OPLAgreement.AgreementNumberReff
Agreement Date	Date	N/A	mm/dd/yyyy	No	OPLAgreement.AgreementDate
Marketing Officer PIC Name	Varchar	200	N/A	No	OPLAgreement.PICFullName
Marketing Officer PIC Position	Varchar	50	N/A	No	OPLAgreement.PICPositionName
Marketing Officer PIC Phone	Varchar	50	N/A	No	OPLAgreement.PICTelephone
Marketing Officer PIC Email	Varchar	50	N/A	No	OPLAgreement.PICEmailAddress
Customer Name	Varchar	200	N/A	No	Customer.CustomerName
BAST Date	Date	N/A	mm/dd/yyyy	Yes	OPLAgreement.BASTHAndoverSchedule
Start Date Usage Unit	Date	N/A	mm/dd/yyyy	Yes	OPLAgreement.

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						StartPeriodDate
End Date Usage Unit		Date	N/A	mm/dd/yyyy	Yes	OPLAgreement.EndPeriodDate
Lease Period		Int	N/A	N/A	Yes	OPLCalculation.LeasePeriodPlan
<b>Payment Condition</b>						
Lease Category		Varchar	100	N/A	No	OPLAgreement.LeaseCategory
Insurance		Bit	N/A	N/A	No	OPLAgreement.IsInsurance
Purchase Required		Bit	N/A	N/A	No	OPLAgreement.PurchaseAfterLease
Payment Transaction		Varchar	100	N/A	No	OPLAgreement.PaymentTransactionType
First Due Date of Usage Unit		Date	N/A	mm/dd/yyyy	No	OPLAgreement.FDueDateUsage
Term Of Payment		Int	N/A	N/A	No	OPLAgreement.TermOfPayment
First Due Date of Payment		Date	N/A	mm/dd/yyyy	No	OPLAgreement.FDDatePayment
Issue of Invoices Date		Date	N/A	mm/dd/yyyy	No	OPLAgreement.IssueInvoiceDate
DepositAmount		Decimal	18,0	###,###,###.##	No	OPLAgreement.DepositAmount
Monthly Installment		Decimal	18,0	###,###,###.##	No	*calculation result at runtime
Deposit Amount		Decimal	18,0	###,###,###.##	No	OPLAgreement.DepositAmount
Number of Payment		Int	N/A	N/A	No	OPLAgreement.NumberOfPayments
Deposit Payment Date		Date	N/A	mm/dd/yyyy	No	OPLAgreement.DepositPaymentDate
Deposit Return Date		Date	N/A	mm/dd/yyyy	No	OPLAgreement.DepositReturnDate
Interest Penalty		Decimal	18,6	N/A	No	OPLAgreement.InterestOfPenalty
<b>Maintenance Condition</b>						
Product Registration Code		Varchar	50	N/A	No	OPLAgreementDetails.ProductCode
Product Brand Name		Varchar	100	N/A	No	Product.BrandName
Product Model Name		Varchar	100	N/A	No	Product.ModelName
Model Year		Date	N/A	mm-yyy	No	Product.ModelYear

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Maintenance Type	Varchar	100	N/A	No	OPLAgreementDetails. MaintenanceType
Usage	Varchar	100	N/A	No	OPLAgreementDetails. Usage
Accessories	Bit	N/A	N/A	No	OPLAgreementDetails. IsAccessories
Carrosserie	Bit	N/A	N/A	No	OPLAgreementDetails. IsCarroserie
Contract Mileage	Int	N/A	N/A	No	OPLAgreementDetails. MonthlyMileageContract
Oil Exchange Mileage	Int	N/A	N/A	No	OPLAgreementDetails. OilExchangeMileage
Regular Maintenance	Int	N/A	N/A	No	OPLAgreementDetails. RegularMaintenanceMileage
Lubricants, Fats	Int	N/A	N/A	No	OPLAgreementDetails. LubricantsFatMileage
Battery Change	Int	N/A	N/A	No	OPLAgreementDetails. BatteryChangeMileage
Tire Change	Int	N/A	N/A	No	OPLAgreementDetails. TireChangeMileage
Customer Service Desk	Varchar	100	N/A	No	OPLAgreementDetails. CSDMaintenance
General / Others Maintenance	Bit	N/A	N/A	No	OPLAgreementDetails. GeneralFailureMaintenance
STNK Renewal	Bit	N/A	N/A	No	OPLAgreementDetails. STNKRenewal
STNK Renewal Date Schedule	Date	N/A	mm/dd/yyyy	No	OPLAgreementDetails. STNKRenewalDate
KEUR Renewal	Bit	N/A	N/A	No	OPLAgreementDetails.

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						KEURRenewal
KEUR Renewal Date Schedule		Date	N/A	mm/dd/yyyy	No	OPLAgreementDetails. KEURRenewalDate
Break Dawn Special Contract		Bit	N/A	N/A	No	OPLAgreementDetails. BreakDawnContract
Break Dawn Special Contract Remarks		Varchar	200	N/A	No	OPLAgreementDetails. BreakDawnRemarks
Replacement Unit		Bit	N/A	N/A	No	OPLAgreementDetails. ReplacementUnit
Replacement Unit Remarks		Varchar	200	N/A	No	OPLAgreementDetails. ReplacementUnitRemarks
<b>Audit Rail</b>						
Create By		Text	100	N/A	Yes	CreateBy
Create Date		Date time	N/A	mm-dd-yyyy:hh-mm:ss	Yes	CreateDate
Last Modified By		Text	100	N/A	Yes	LastModifiedBy
Last Modified		Date time	N/A	mm-dd-yyyy:hh-mm:ss	Yes	LastModified
<b>Status Management</b>						
Is Deleted		Yes/No	N/A	N/A	Yes	IsDeleted
Is Draft		Yes/No	N/A	N/A	Yes	IsDraft
Is Submitted		Yes/No	N/A	N/A	Yes	IsSubmitted
Is Valid		Yes/No	N/A	N/A	Yes	IsValid

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## 3 Appendix

### 3.1 Use Case Terminology

#### 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](http://en.wikipedia.org/wiki/Use_case))
- (iii) **A use case is** a formal way of representing how a business interacts with its environment. It is 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"> <li>• Who is using the website</li> <li>• What the user want to do</li> <li>• The user's goal</li> <li>• The steps the user takes to accomplish a particular task</li> <li>• How the website should respond to an action</li> </ul>	<ul style="list-style-type: none"> <li>• Implementation-specific language</li> <li>• Details about the user interfaces or screens.</li> </ul>

(<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>)

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### 3.2 Calculation Formula

#### => Calculation of Refinance:

1. Calculation formula
  - o **Net Sales**  
([Sales Price] \* [Quantity]) - [Commission] - [Other Expense0,1,2,3]

---

  - o **Profit Amount**  
[Net Sales] - [Residual Value]

#### => Calculation of Operating Lease:

1. Step2 - Financial Condition:
  - o Prime Rate Effective  
[Borrowing Rate Effective] + [Spread Rate Effective]
  - o Rate Flat  
LF Monthly Installment = PMT(Prime Rate Effective/12, Period, -(Product Net + Accessories Net + Carroserie Net) \* (100%-0)), 0, Payment Type)  
LF Total Installment = LF Monthly Installment \* Period  
LF Interest Expenses = (PMT(Borrowing Rate Effective/12, Period, -(Product Net + Accessories Net + Carroserie Net), 0, Payment Type) \* Period) - (Product Net + Accessories Net + Carroserie Net)  
LF Principal Investment = (Product Net + Accessories Net + Carroserie Net) - ((Product Net + Accessories Net + Carroserie Net) \* 0)  
LF Interest Income = LF Total Installment - LF Interest Expenses - LF Principal Investment  
Borrowing Flat Rate = LF Interest Expenses / LF Principal Investment / (Period/12)  
Spread Flat Rate = (LF Interest Income/Period) / (Product Net + Accessories Net + Carroserie Net) \* 12  
Prime Flat Rate = Borrowing Flat Rate + Spread Flat Rate
2. Step3 - Maintenance Cost
  - o Sum Up Maintenance Cost Condition
  - o Value of [Total Maintenance Cost] is total budget during the period of lease
3. Step4-Insurance Cost
  - o Sum Up Insurance Cost Condition
  - o Value of [Mediator Fee Amount] ≤ value of [Commission Amount]
4. Step5 - Operating Lease Result:
  - o Calculate Nett Product Price  
[Sum Up (Total Product Price + Total Accessories Price + Total Carroserie Price)] \*[Unit Quantity]
  - o Calculate Gross Product Price  
[Sum Up (Product Price + Accessories Price + Carroserie Price)] \*[Unit Quantity]
  - o Calculate Maintenance Cost  
[Sum Up Maintenance Cost] \*Unit Quantity]
  - o Calculate Insurance Cost

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[Sum Up Insurance Condition Cost]\*[Lease Period Plan]\*[Unit Quantity]

- Residual Value  
[RV Rate] \* [Nett Product Price]\*[Unit Quantity]
- Standard Residual Value  
[RV Rate] \* [Gross Product Price]\*[Unit Quantity]
- STNK & KEUR Renewal Cost  
[Total Registration Value]
- Replacement Unit Cost  
([Replacement Unit]\*[Lease Period Plan]\*[Unit Quantity])
- Mediator Fee Cost  
([Mediator Fee Cost]\*[Unit Quantity])
- Mobilization Cost  
([Mobilization Cost]\*[Unit Quantity])
- Demobilization Cost  
([Demobilization Cost]\*[Unit Quantity])
- Insurance Cost  
[Gross Premium] - [Commission]
- Interest Cost  
PMT([(Borrowing Rate Eff.)/12],[Lease Period Plan],-(Nett Product Price),0,[payment type])\*[Lease Period Plan]- (Nett Product Price)
- Depreciations  
(Total Product Price + Accessories Price + Carroserie Price) – RV Amount)
- Interest Cost for TOP  
[Term of Payments] \* (Total Product Price + Accessories Price + Carroserie Price) \* (Borrowing Rate Flat/360)
- Interest Cost for Payment Before BAST  
[Interest Cost DP Unit] + [Interest Cost Payment Settlement Unit] + [Interest Cost DP Accessories] + [Interest Cost Payment Settlement Accessories] + [Interest Cost DP Carroserie] + [Interest Cost Payment Settlement Carroserie]
- Interest Cost DP Unit  
[Total Product Price] \* [DP Percent To BAST] \* [DP Period to BAST] \* (Borrowing Rate Flat/ 360)
- Interest Cost Payment Settlement Unit

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[Total Product Price] \* [PS Percent To BAST] \* [Payment Settlement Period to BAST] \*  
(Borrowing Rate Flat/ 360)

- Interest Cost DP Accessories  
[Total Product Price]\* [DP Percent To BAST] \* [DP Period to BAST] \* (Borrowing Rate Flat/ 360)
- Interest Cost Payment Settlement Accessories  
[Accessories Price]\* [PS Percent To BAST] \* [Payment Settlement Period to BAST] \*  
(Borrowing Rate Flat/ 360)
- Interest Cost DP Carroserie  
[Carroserie Price]\* [DP Percent To BAST] \* [DP Period to BAST] \* (Borrowing Rate Flat/  
360)
- Interest Cost Payment Settlement Carroserie  
[Accessories Price]\* [PS Percent To BAST] \* [Payment Settlement Period to BAST] \*  
(Borrowing Rate Flat/ 360)
- Insurance Income Cost  
[Commission Amount]
- Interest Income  
[Rate after Adjustment] \* [Total Cost]
- **Total Cost**  
-----
- DSFFinance Lease Interest Income  
[NetTotalPrice] \* [SpreadFlatPercent] \* ([LeasePeriodPlan] 12);
- DSFFinance Lease Total Income  
[NetTotalPrice] + [DSFLeaseFinanceInterestIncome] + [Interest Expense] +  
[Administration Fee Amount] + [Insurance Income]
- DSFFinance Lease Total Cost  
[NetTotalPrice] + [Interest Expense]
- DSFFinance Lease Total Profit  
[DSFFinance Lease Total Income] - [DSFFinance Lease Total Cost]
- OPL Product Profit  
[DSFFinance Lease Total Profit] \* [Ratio]
- **Total Installment**  
[OPLProductProfit] + [OPLProductTotalCost]
- **Monthly Installment OPL**

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[Total Installment] / [Lease Period Plan]

- **[Total Income]**  
[Total Installment] + [Insurances income]
- **[Total Income After Lease Cost]**  
[Total Income - Total Cost]