



PT. BERLIAN SISTEM INFORMASI



OPERATING LEASE SUPPORT SYSTEM DEVELOPMENT

FOR



Functional Specification

A.1 Marketing Module

Revision 8.0

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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.

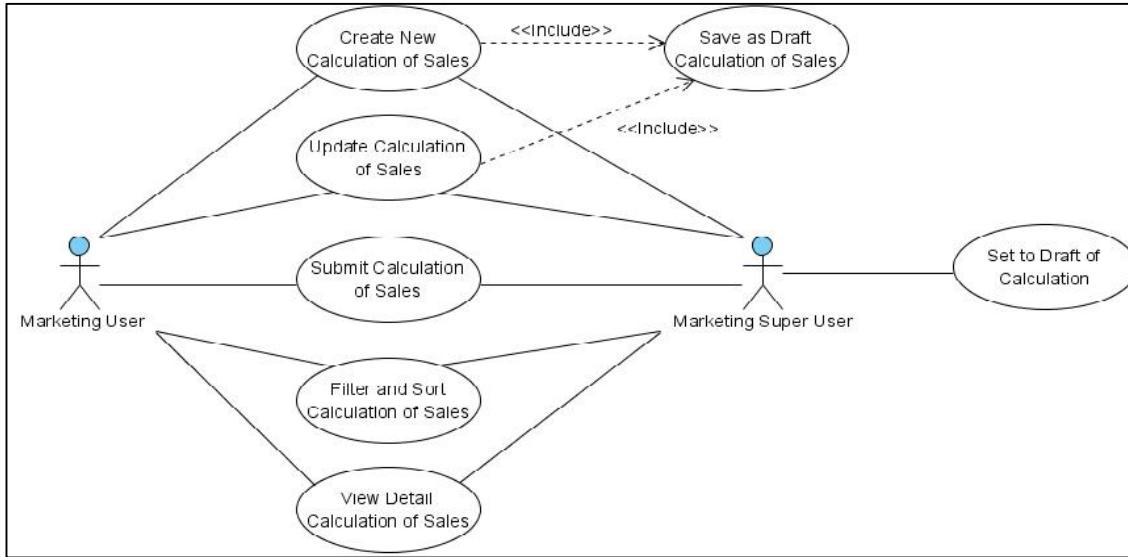


Figure 1 – Use case diagram of Calculation of Refinance

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).

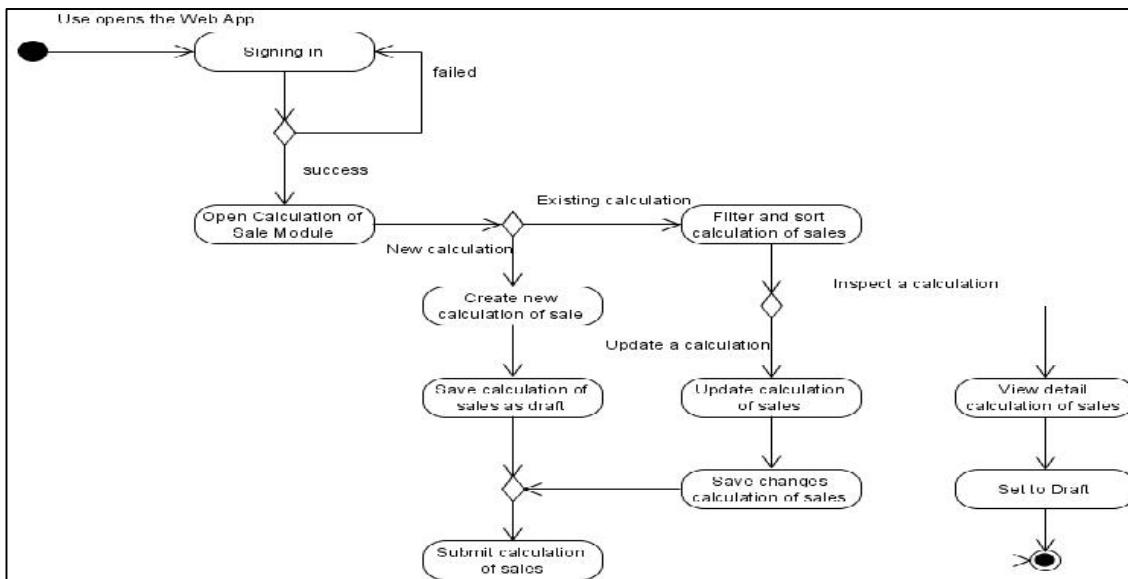


Figure 2 – Activity diagram of Calculation of Refinance

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No.	Steps/ Operations	Actor/ People	Scenario
1	Signing in	Marketing user, Marketing super user	<ul style="list-style-type: none"> Actor fills out sign in form by inputting user name and password. 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.
2.	Open calculation of Refinance module	Marketing user, Marketing super user	<ul style="list-style-type: none"> After login, actor can open calculation of Refinance module on the menu of system. After that, screen of calculation of Refinance will open. After screen opens, list of Refinance calculation will be shown and calculation data existing will be displayed.
3.	Create new calculation	Marketing user, Marketing super user	<ul style="list-style-type: none"> If calculation screen opens, actor can click [create]button to create new records of calculation and after that create calculation screen will open. Upon create calculation screen, actor can fill out the fields. 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. Profit Amount and Total Amount will be calculated automatically, after fill out the calculation fields. The mandatory fields cannot be blank.
4.	Save calculation as draft	Marketing user, Marketing super user	<ul style="list-style-type: none"> After filling out the fields, actor can click [save as draft] button, if want to make a records as <u>draft</u>. After that, system will proceed to store a data into database and will automatically check a validity of data (such as; data type, mandatory data, and data length) If done, actor can click [Back] button to return to the list of Refinance calculation, then calculation data will be displayed.
5	Submit calculation record	Marketing user, Marketing super user	<ul style="list-style-type: none"> Once data is saved and data has been confirmed, actor can submit the record by clicking[Submit] button. After that system will set a calculation record as <u>submitted (or not draft)</u>. If done, actor can click back button to return to the list of Refinance calculation.
6.	Update calculation records	Marketing user, Marketing super user	<ul style="list-style-type: none"> On the calculation of Refinance screen actor can click [Edit] button to update the calculation record by editing data on the edit calculation screen. If there were calculation still draft, <i>marketing user</i> can click [edit] button on the right side of the records on the

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			<p>list of Refinance calculation.</p> <ul style="list-style-type: none"> If there were calculation record already submits and the status is valid, <i>marketing user</i> cannot click [edit] button to open edit calculation screen. If edit calculation screen opens, actor can edit a record by inputting a data on each of the fields. The mandatory fields cannot be blank.
7.	Filter and sort calculation records	Marketing user, Marketing super user	<ul style="list-style-type: none"> Actor can filter and sort the calculation record based on columns where displayed on the list of Refinance calculation. 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. 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. 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.
8.	View detail calculation record	Marketing user, Marketing super user	<ul style="list-style-type: none"> On the calculation screen actor can open view detail calculation screen to inspect a data. On the list of Refinance calculation screen, actor can click [view detail] button, after that system will display a screen of calculation detail. On this screen, actor cannot do anything to edit of data. Only viewing calculation record. There are 2 conditions when calculation detail screen opens: <ol style="list-style-type: none"> If calculation status is still draft or already valid, [validate] button and [set to draft] button will be disappeared. If calculation status was already submitted, [validate] button and [set to draft] button will be shown. If done, actor can click back button to return to the list.
9	Set to draft of calculation	Marketing super user	<ul style="list-style-type: none"> 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 submitted to draft. After that, system will proceed automatically to change the status, and actor can click [Back] button to return to the list of Refinance calculation.

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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.

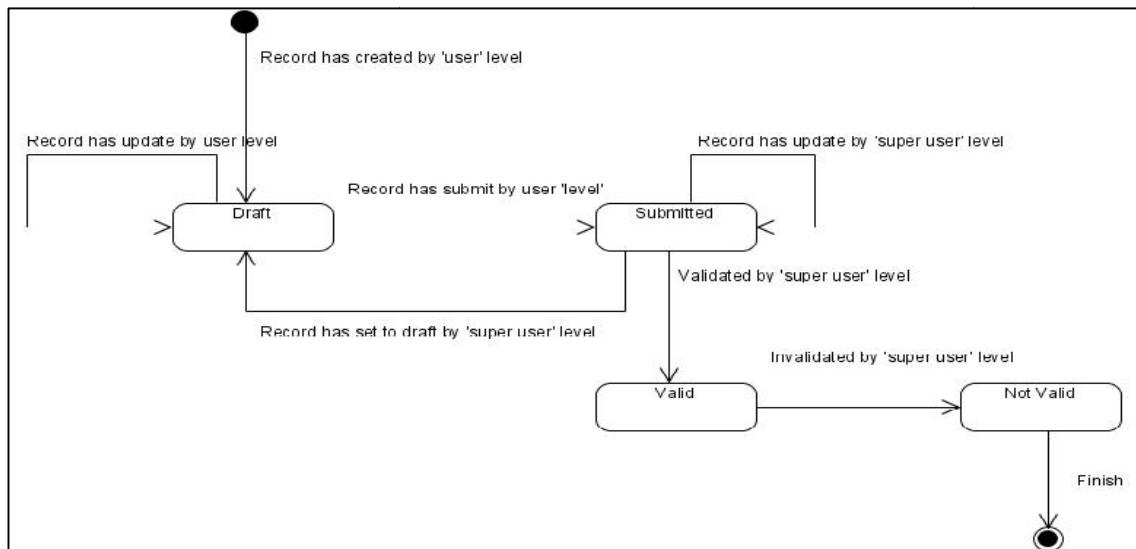


Figure 3 – Status diagram of Calculation of Refinance

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 button '+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 labeled 'Search' and a dropdown menu labeled 'Show 10 entries' which is also highlighted with a red box and an arrow pointing to the text 'Displaying calculation list'. In the center, there's a table titled 'List of Sales Calculation' showing two rows of data. The columns are: COS Number, Customer Name, Agreement Number ref., Product, Quantity, Amount, Created By, Created Date, Status, and Action. The first row has COS Number 'COS0406901', Customer Name 'PT. Maju Jaya', Agreement Number ref. '000.00074', Product 'Mitsubishi Triton GLX SC DA9365CE', Quantity '1 Unit', Amount '155,106,364', Created By 'John Smith', Created Date '01/01/2014', Status 'submitted', and Action icons. The second row has similar fields. At the bottom of the table area, there's a message 'Showing 1 to 2 of 2 entries' and a 'Data paging information' link. To the right of the table, there are navigation links for 'First', 'Previous', 'Next', and 'Last'. The bottom left corner of the page has a footer 'Prototype - Final/dashboard.htm'.

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	[Edit] [View]
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	[Edit] [View]

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

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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 data entry form for 'Refinance Calculation'. The form is divided into several sections:

- Header:** Includes 'Created by' (Abdul Somad Zaini), 'Created Date' (01/01/2014), 'Last Modified By' (Abdul Somad Zaini), 'Last Modified Date' (01/01/2014), and a 'Validated' button.
- Lease Contract Information:** Fields include 'Number' (example), 'Buyer / Customer' (example), 'Agreement Number Ref.' (example), 'Customer Name Ref.' (example), 'Maintenance Type' (example), 'Monthly Mileage' (example), 'Expiration Date (mm/dd/yyyy)' (example), 'Purchase Requirement After Lease' (example), 'Expected Mileage' (example), and 'Residual Value' (example).
- Product Basic Information:** Fields include 'Brand Code' (example), 'Brand Name' (example), 'Product Name' (example), 'Model Year' (example), 'Schedule Date for Registration (mm/dd/yyyy)' (example), 'Displacement' (example), 'Transmission' (example), 'Fuel Type' (example), 'Maximum Loading Capacity' (example), 'Product Category' (example), 'Special OP' (example), 'Registration Date (mm/dd/yyyy)' (example), 'Usage' (City dropdown), 'Location' (example), 'Number Plate Color' (Black dropdown), and 'Special OP' (example).
- Calculation:** Fields include 'Actual Residual Value' (0.00), 'Unit Quantity' (0.00), 'Commission' (0.00), 'example' (0.00), 'example' (0.00), 'example' (0.00), 'Total Amount' (0.00), and 'Profits' (table with columns 'Item' and 'Amount'). The 'Profits Total Amount - Actual Residual Value' field is set to 0.00.
- Action Buttons:** 'Save Changes' (blue button) and 'Submit' (purple button) are located at the bottom left. A red box highlights the 'Save Changes' button, and another red box highlights the 'To save or submit of data' label next to it.

Figure 7 – Screen of Update Calculation of Refinance

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	12 October 2015
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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 (Number, Buyer / Customer), and status indicators (Created by: Abdul Somad Zaini, Created Date: 01/01/2014, Last Modified by: Abdul Somad Zaini, Last Modified Date: 01/01/2014).
- Contract Information:** Details like Agreement Number Reff., Customer Name Reff., Maintenance Type, Monthly Mileage, Expected Mileage, Expiration Date, Purchase Requirement After Lease, and Residual Value.
- Product Basic Information:** Details like Brand Code, Brand, Model Year, Schedule Date for Registration, Displacement, Transmission, Fuel Type, Maximum Loading Capacity, Product Category, Special OP, Registration Date, Usage, Location, Number Plate Color.
- Calculation:** Fields for Actual Residual Value, Unit Quantity, Comission, Example Other Expense, Total Amount, and Profits.
- Profits:** A table showing Item and Profit Amount, with a total row for Profits Total Amount - Actual Residual Value.
- Footer:** A 'Validate' button and a note: "To changes a status of calculation record".

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	12 October 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
Calculation Identity				
Calculation of Refinance Number	Text	50	N/A	Yes
Buyer/ Customer Name	Text	200	N/A	Yes
Lease Contract Information				
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
Product Basic Information				
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			
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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
Registration Date	Date	N/A	mm-dd-yyyy	No
Calculation				
Actual Residual Value	Decimal	18,3	###,###,##.##	Yes
Unit Quantity	Decimal	18,3	###,###,##.##	Yes
Commission	Decimal	18,3	###,###,##.##	No
Other Expense 1	Decimal	18,3	###,###,##.##	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
Audit Trail				
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
Status Management				
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

Project	Operating Lease Support System Development		
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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).

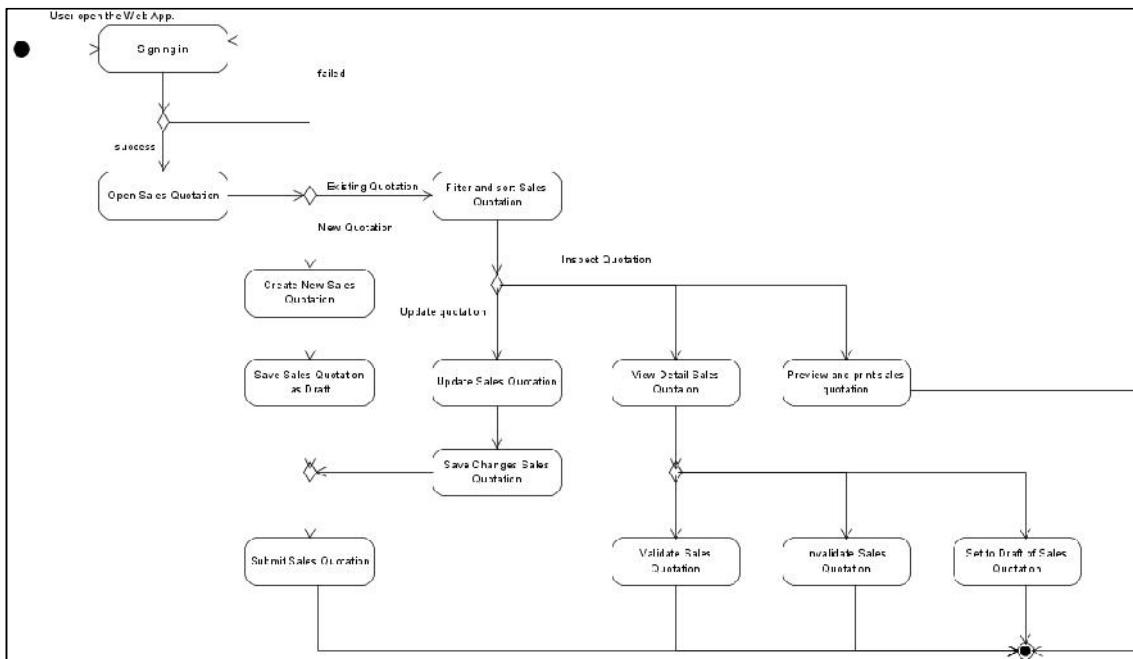


Figure 5 – Activity diagram of Refinance Quotation

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	12 October 2015
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No.	Steps/ Operations	Actor/ People	Scenario
1	Signing in	Marketing user, Marketing super user	<ul style="list-style-type: none"> Actor fills out sign in form by inputting user name and password. 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.
2.	Open calculation of Refinance module	Marketing user, Marketing super user	<ul style="list-style-type: none"> After login, actor can open Refinance quotation module on the menu of system. After that, the Refinance quotation screen will open. After screen opens, Refinance quotation list will be shown and existing data will be displayed.
3.	Create new Refinance quotation	Marketing user, Marketing super user	<ul style="list-style-type: none"> 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. 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. The mandatory fields cannot be blank.
4.	Save Refinance quotation as draft	Marketing user, Marketing super user	<ul style="list-style-type: none"> After filling out the fields, actor can click [save as draft] button, if want to make a records as <u>draft</u>. After that, system will proceed to store a data into database and will automatically check a validity of data (such as; data type, mandatory data, and data length) If done, actor can click [Back] button to return to the list of Refinance calculation, then Refinance quotation data will be displayed.
5	Submit Refinance quotation record	Marketing user, Marketing super user	<ul style="list-style-type: none"> Once data is saved and data has been confirmed, actor can submit the record by click [Submit] button. After that system will set a Refinance quotation record as <u>submitted (or not draft)</u>. If done, actor can click back button to return to the list of Refinance quotation.
6.	Update Refinance quotation records	Marketing user, Marketing super user	<ul style="list-style-type: none"> On the list of Refinance quotation screen actor can click [Edit] button to update the record by editing data on the edit screen. If the quotations still <u>draft</u>, <i>marketing user</i> can click [edit] button on the right side of the records on list of Refinance quotation screen. If the quotation records already <u>submit</u> and the status is <u>valid</u>, <i>marketing user</i> cannot click [edit] button to open edit Refinance quotation screen.

Functional Specification: A.1 Marketing Module

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			<ul style="list-style-type: none"> If edit screen opens, actor can edit a record by inputting a data on each of the fields. The mandatory fields cannot be blank.
7.	Filter and sort Refinance quotation records	Marketing user, Marketing super user	<ul style="list-style-type: none"> Actor can filter and sort the record based on columns where displayed on the list. 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. 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. 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.
8.	View detail Refinance quotation record	Marketing user, Marketing super user	<ul style="list-style-type: none"> On the list of Refinance quotation screen actor can view detail a Refinance quotation on the view detail screen. 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. There are 2 conditions when view detail screen opens: <ol style="list-style-type: none"> If the Refinance quotation status is still draft or already valid, [validate] button and [set to draft] button will be disappeared. If Refinance quotation status was already submitted, [validate] button and [set to draft] button will be shown. If done, actor can click [Back] button to return to the list.
9	Validate Refinance quotation	Marketing super user	<ul style="list-style-type: none"> 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 valid, actor cannot rollback the status to submitted or draft. After that, system will proceed automatically to change the status, and actor can click [Back] button to return to the list.
10	Invalidate Refinance quotation	Marketing super user	<ul style="list-style-type: none"> For the worst case, if Refinance quotation were made inoperative/ not applicable, actor can change the status from valid to not valid. 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. After that, system will proceed automatically to change the status, and actor can click [Back] button to return to the list.

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"> To utilize this feature; If Refinance quotation still need to be revised and status still not valid yet, actor can change the status from submitted to draft. 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). After that, system will proceed automatically to change the status, and actor can click [Back] button to return to the list.
12	Preview and print Refinance quotation	Marketing user, Marketing super user	<ul style="list-style-type: none"> To do this process, actor can select the quotation record by clicking [Print preview] button, and after that the preview screen will be opened. Once preview screen opens, actor can click [Print] button to print the report. If done, actor can click [Back] button to return to the list.

2.2.3 Status management and roles

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

Role of Actor	Filter and sort	Save as draft	Save changes (draft)	Save changes (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.

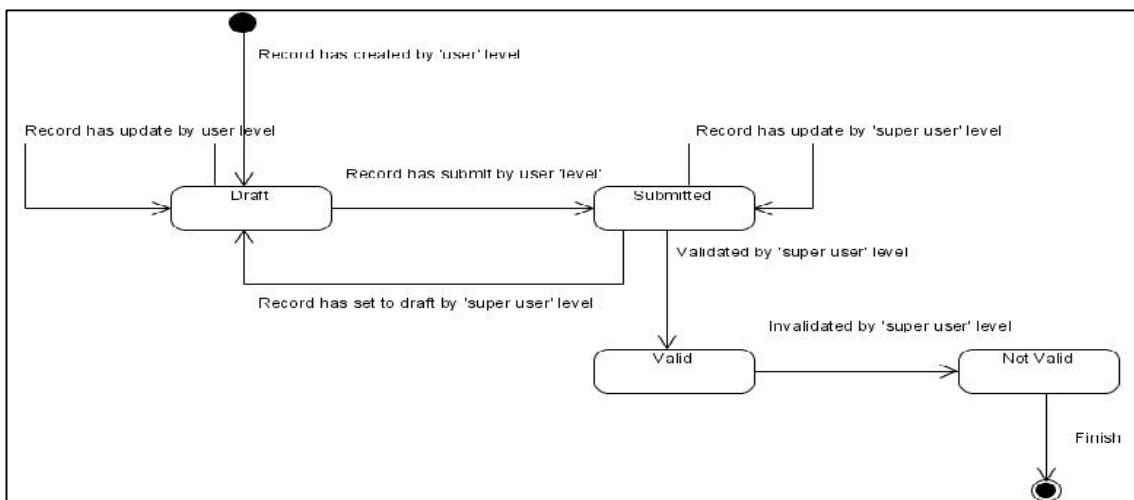


Figure 10 – Status diagram of Calculation of Refinance

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 a web-based application interface for managing sales quotations. At the top left is a button labeled '+ Create' with a red callout 'To create new sales quotation'. To its right is a search bar with a red callout 'To filter sales quotation record'. Below the search bar is a table header with columns: Number, Buyer / Customer, Product Name, Expected Delivery, Delivery Place, Validity Month, and Status. The table contains six rows of data, each with a set of three icons in the Action column. Red callouts point to these icons with labels: 'To open edit or view detail sales quotation' (pointing to the first icon), 'Data paging information' (pointing to the second icon), and 'To open paging the records' (pointing to the third icon). At the bottom left of the table area is a message 'Showing 1 to 5 of 6 entries'. At the bottom right are navigation buttons for 'First', 'Previous', 'Next', and '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), Down Payment (Down Payment), Delivery Place (Delivery Place), and Remarks (Remarks). At the bottom, there are two buttons: 'Save as Draft' (highlighted with a red box) and 'Submit' (highlighted with a red box). A callout box points to the 'Submit' button with the text 'To save or submit calculation data'.

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' field with a 'Draft' button. Below this is a header row with 'Created by' (Abdul Somad Zaini), 'Created Date' (01/01/2014), 'Last Modified by' (Abdul Somad Zaini), and 'Last Modified Date' (01/01/2014). The main body of the form is divided into sections: 'Product Basic Information' and 'Quotation Information'. The 'Product Basic Information' section contains fields for Brand Code, Model Year, Transmission, Product Category, Usage, Buyer / Customer, Fuel Type, Special OP, Location, Displacement, Maximum Loading Capacity, Registration Date, and Number Plate Color. The 'Quotation Information' section contains fields for Validity Month, Down Payment, Terms, Delivery Place, Expected Delivery, Remarks, and Number Plate Color. 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

DIPOLY 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:

Manufacturer/Name	
Grade	Year
Model	Engine Number
Transmission	Police Number
Color	Odometer Reading (Km)
Passenger	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

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	12 October 2015
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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
Calculation Identity				
Calculation of Refinance Number	Text	50	N/A	Yes
Buyer/ Customer Name	Text	100	N/A	Yes
Product Basic Information				
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
Registration Date	Date	N/A	mm-dd-yyyy	No

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development			
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Quotation Information

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

Audit Rail

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

Status Management

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

Project	Operating Lease Support System Development		
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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.

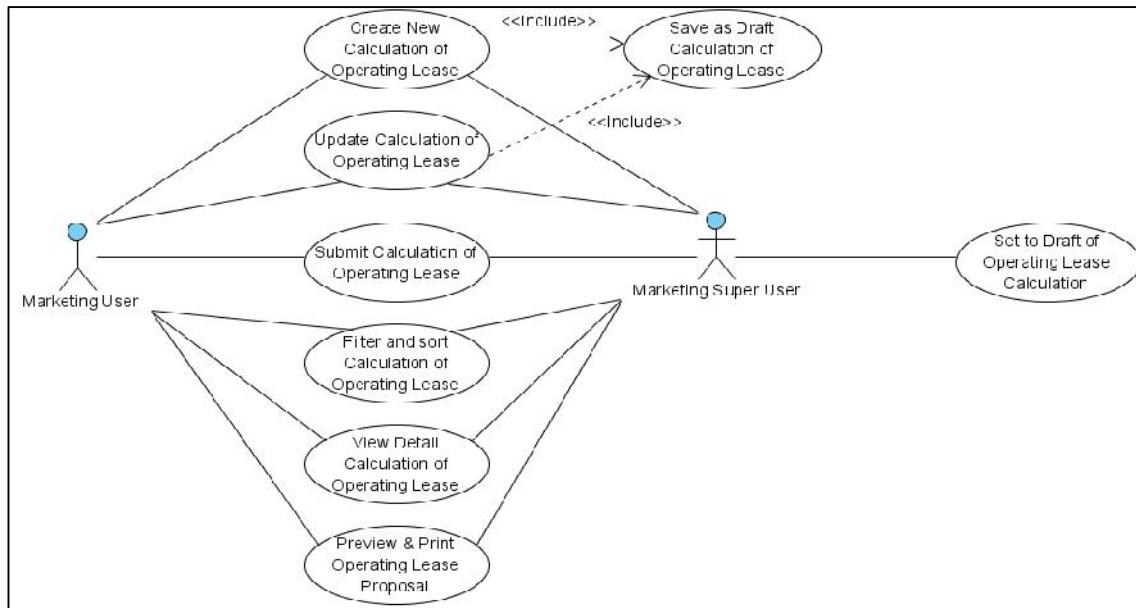


Figure 17 – Use case diagram of Calculation of Operating Lease

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).

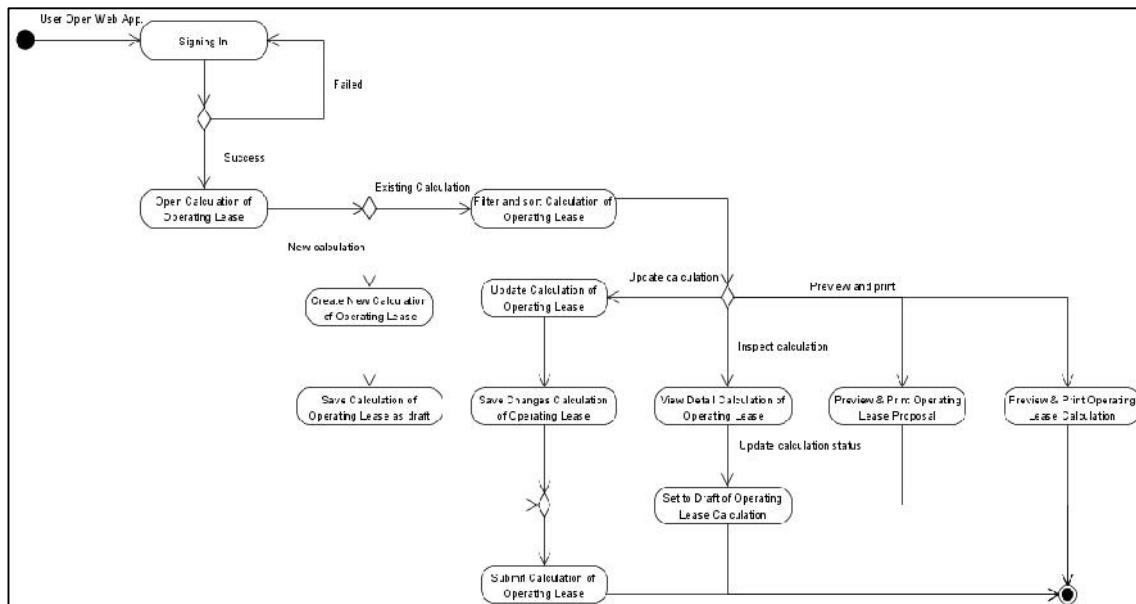


Figure 11 – Activity diagram of Calculation of Operating Lease

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
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No.	Steps/ Operations	Actor/ People	Scenario
1	Signing in	Marketing user, Marketing super user	<ul style="list-style-type: none"> Actor fills out sign in form by inputting user name and password. 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.
2.	Open calculation of operating lease module	Marketing user, Marketing super user	<ul style="list-style-type: none"> 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. After screen opens, list of operating lease calculation will be shown and calculation data existing will be displayed.
3.	Create new calculation of operating lease	Marketing user, Marketing super user	<ul style="list-style-type: none"> If calculation screen opens, actor can click [create] button to create new records of calculation and after that create calculation screen will open. Once create calculation opens, the actors can fill out a form that is divided into 5 steps: <ol style="list-style-type: none"> 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. 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 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. 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. On the Step-5, this screen is final step, after fill out

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

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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"> • 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. • 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.
8.	View detail calculation of operating lease	Marketing user, Marketing super user	<ul style="list-style-type: none"> • On the calculation screen actor can open view detail calculation screen to inspect a data. • On the list of Refinance calculation screen, actor can click [view detail] button, after that system will display a screen of calculation detail. • On this screen, actor cannot do anything to edit of data. Only viewing calculation record. • There are2 conditions when calculation detail screen opens: <ol style="list-style-type: none"> 1) If calculation status is still draft or already valid, [validate] button and [set to draft] button will be disappeared. 2) If calculation status was already submitted, [validate] button and [set to draft] button will be shown. • If done, actor can click [Back] button to return to the list of operating lease calculation, then calculation data will be displayed.
9	Set to draft of operating lease calculation	Marketing super user	<ul style="list-style-type: none"> • To utilize this feature; If calculation still need to revise and status still not valid yet, actor can change the calculation status from submitted to draft. • 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. • If done, actor can click [Back] button to return to the list of operating lease calculation, then calculation data will be displayed.
10	Preview and print	Marketing	<ul style="list-style-type: none"> • To produce this report, actor can select the calculation

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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"> Upon preview screen opens, actor can click [Print] button to print the report. If done, actor can click [Back] button to return to the list of operating lease calculation, then calculation data will be displayed.
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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.

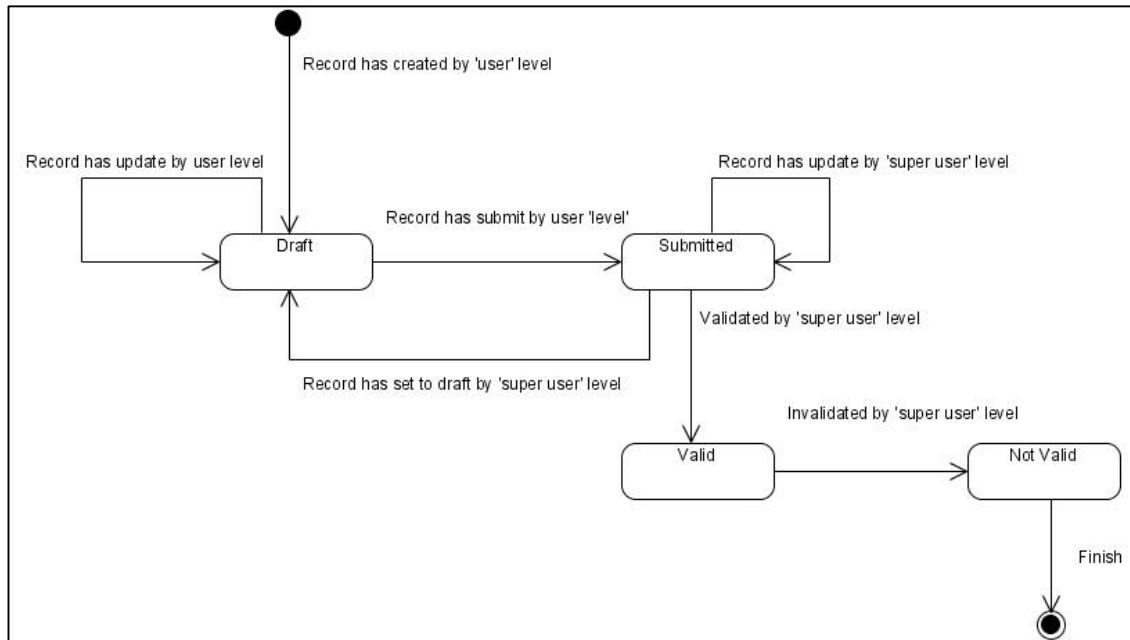


Figure 12 – Status diagram of Operating Lease Calculation

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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.

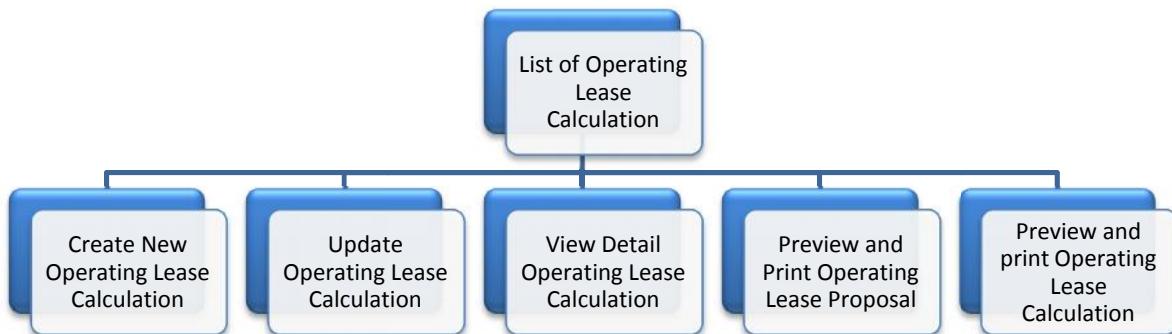


Figure 20 – Sitemap design of Operating Lease Calculation

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 with a red callout "To filter records" and a "Displaying list" button with a red callout "To open edit or view detail records". There is also a search bar with a red callout "To filter records". The data grid 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. An example row shows "C05C4060901", "Full Maintenance", "PT. Maju Jaya", "000.0007/4", "Mitsubishi Triton GLX SC DA9965CE", "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 "Data paging information" section with a red callout "To open paging the records".

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 is divided into several sections:

- Top Navigation:** Includes a 'Back' button, a link to 'Return back to list of operating lease calculation', and a 'Draft' status indicator.
- Step Progress:** Shows steps 1 through 6.
- User Details:** Created by Abdul Somad Zaini, Created Date 01/01/2014, Last Modified By Abdul Somad Zaini, Last Modified Date 01/01/2014.
- Product Information:** Fields include OPL Calculation Number, Product Registration Code, Product Brand Code, Product Model Name, Transmission, Usage, Product Type, Product Brand Name, Product Model Type, Fuel Type, Number Plate Color, Product Category, Product Model Code, Product Model Year (yyyy/mm), Displacement (cc), Monthly Mileage (Km), and Monthly Milage.
- Lease Information:** Fields include Customer Name, Lessee Category (New), Start Date Usage Unit Plan (mm/dd/yyyy), Previous Agreement Number, Lease Period Plan (Months), Term of Payment (Days), Term of Payments, End Date Usage Unit Plan (mm/dd/yyyy), and Purchase Requirement After Lease.
- Maintenance and Accessories:** Fields include Maintenance Type (Full Maintenance), Carrosserie Type, Accessories Type, Insurance (Yes/No), Carrosserie (Rp), and Accessories (Rp).
- Action Buttons:** 'Save as Draft' and 'Next Step >' buttons at the bottom.

Annotations with red boxes and arrows:

- An arrow points from the 'To entry a calculation data' annotation to the 'Next Step >' button.
- An arrow points from the '[End Date Usage Unit Plan] will be filled automatically' annotation to the 'End Date Usage Unit Plan (mm/dd/yyyy)' field.
- An arrow points from the '[Lease Period Plan] will be filled manually' annotation to the 'Lease Period Plan (Months)' field.
- An arrow points from the 'To save and navigate the calculation data' annotation to the 'Save as Draft' button.

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

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Return back to list of operating lease calculation

To entry a calculation data

To save and navigate the calculation data

Cost Condition

Product Price	Dealer Discount	ATPM Discount	Product Price Total
Rp Product Price	Rp Dealer Discount	Rp ATPM Discount	Rp Product Price Total
Accessories Price	Supplier Discount		Accessories Price Total
Rp Accessories Price	Rp Supplier Discount		Rp Accessories Price Total
Carroserie Price	Supplier Discount		Carroserie Price Total
Rp Carroserie Price	Rp Supplier Discount		Rp Carroserie Price Total

Residual Value Amount	Residual Value (%)	Standard Residual Value (%)	Standard Residual Value Amount
Rp Residual Value Amount	Residual Value (%)	Standard Residual Value (%)	Rp Standard Residual Value Amount

Finance Condition

Payment type In Arrear	Borrowing Rate Effective (%) 10.76000	Spread Effective (%) 5.00000	Prime Rate Effective (%) 15.76000	Borrowing Rate Flat (%) 5.871651	Prime Rate Flat (%) 8.881017	Spread Flat (%) 2.668086
Administration Fee Rp 2,000,000	Replacement Unit Cost (monthly) Rp 0	Mobilizations Fee Rp 0	Demobilizations Fee Rp 0	Term of Payment (Days) 14		

Product

DP Before BAST (%) Down Payment of Product Before BAST	DP Period to BAST (Days) Time Number of Down Payment of Product to BA	Payment Settlement before BAST (%) Payment Settlement of Product before BAST	Payment Settlement Period to BAST (Days) Payment Settlement Period to BAST (Days)
---	--	---	--

Carroserie

DP Before BAST (%) DP Before BAST	DP Period to BAST (Day) DP Period to BAST (Day)	Payment Settlement Before BAST Payment Settlement Before BAST	Payment Settlement Period to BAST (Days) Payment Settlement Period to BAST (Days)
--------------------------------------	--	--	--

Accessories

DP Before BAST (%) DP Before BAST	DP Period to BAST (Days) DP Period to BAST (Days)	Payment Settlement Before BAST Payment Settlement Before BAST Accessories	Payment Settlement Period to BAST (Days) Payment Settlement Period to BAST (Days)
--------------------------------------	--	--	--

Registration Fee

Registration Value Rate (%) Rate of Registration Value	Registration Value Amount Rp Amount of Registration Value
---	--

Navigation

◀ Previous Step Save Changes Next Step ▶

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, To entry a calculation data.
- Maintenance Basic Information:**
 - Brand Code, Brand Name, Model Name
 - Product Type, Product Category, Model Year (yyyy/mm)
 - Monthly Mileage (Km), Usage, City, Lease Period (Months)
- Maintenance Condition & Cost:**
 - Maintenance Type: Full Maintenance. Annotation: [Lease Period] will be filled automatically.
 - Periodic Maintenance, Oil Exchange, Exchange of Oil and Fats.
 - Irregular Maintenance, Remarks, Rp, Amount.
 - Battery, Exchange Cycle, Km, Rp, Amount.
 - Tire, Exchange Cycle, Km, Rp, Amount.
 - Maintenance of Special OP Parts, Remarks, Rp, Amount.
 - CSD, Remarks, Rp, Amount.
 - Maintenance of Others (1), Remarks, Rp, Amount.
 - Maintenance of Others (2), Remarks, Rp, Amount.
 - Maintenance of Others (3), Remarks, Rp, Amount.
- Total Maintenance Cost:** Value of [Total Maintenance Cost] is total budget during the period of lease. Total Maintenance Cost field.
- Bottom Navigation:** Previous Step, Save Changes, Next Step, To save and navigate the calculation data.

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

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Draft

[Back](#)
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				
Insurance Basic Information					
Start Date of Insurance (mm/dd/yyyy)	02/01/2015	End Date of Insurance (mm/dd/yyyy)	03/02/2019	Coverage Period (Months)	49
Insurance Company	Tonic Marine	Insurance Agent	No Agent	Insurance of Payment Cycle	Yearly
Class of insurance	ALL RISK +++	Commission Rate (%)	25.000000	Seat Capacity	2
Remarks	Remarks:				
Product					
Model Name	Model Name	Product Type	Product Category	Model Year (yyyy/mm)	Model Year (yyyy/mm)
Insurance Condition & Cost					
Basic Premium	Comprehensive	Basic Rate (%)	Rp	Gross Premium	
Third Party Liability (TPL)	Comprehensive	Basic Rate (%)	Rp	Gross Premium	
Passenger Legal Liability (PLL)	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	
Total Gross Premium					
		Rp	Gross Premium		
Commission Amount					
		Rp	Commission Amount		
Mediator Fee Amount					
		Rp	Mediator Fee Amount		
Net Premium					
		Rp	Net Premium		
◀ Previous Step Save Changes Next Step ▶					
To save and navigate the calculation data					

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

The screenshot shows the 'Create New Operating Lease Calculation' screen divided into several sections:

- Top Left:** Back button and 'Return back to list of operating lease calculation' link.
- Top Right:** 'To entry a calculation data' link.
- Header:** Step 1 to Step 6 tabs, and a 'Draft' status indicator.
- Basic Information (Lease Fee):**
 - Start Date Usage Unit Plan (mm/dd/yyyy): 02/01/2015
 - End Date Usage Unit Plan (mm/dd/yyyy): 01/21/2015
 - Lease Period Plan (Months): 48
 - Rate Insurance Income: [Field]
 - Interest Income: [Field]
 - BASST Handover Schedule (mm/dd/yyyy): [Field]
 - BASST Handover Schedule (mm/dd/yyyy): [Field]
 - First Lease Payment (Days): [Field]
 - Setting Monthly Installment: [Fields]
 - Ratio: [Field]
 - Borrowing Rate (%): [Field]
 - Spread of Interest Rate (%): [Field]
 - Internal Interest Rate (%): [Field]
- Text Overlay:** '[Lease Period] will be filled automatically' (points to the Lease Period Plan field).
- Annotations:**
 - Enable [Rate Insurances Income] field and set value same with [Commission Amount] rate (points to the Rate Insurance Income field).
 - Enable [Interest Income] field and set value based on formula in Excel file (points to the Interest Income field).
 - Remove [Insurances Discount] field from screen (points to the Insurances Discount field).
 - Add field [Total Installment], [Insurance Income], [Total Income], [Total Income After Lease Cost] (points to the Total Installment, Insurance Income, Total Income, and Total Income After Lease Cost fields).
 - To save and navigate the calculation data (points to the Save Changes and Submit buttons).
- Bottom:** Previous Step, Save Changes, Submit buttons.

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

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 'Create New 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 'To entry a calculation data'. Below these are tabs for Step 1 through Step 6. The main content area includes 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). A section titled 'Basic Information (Product)' contains fields for Product Registration Code (VEH/0021/V-001/FN227MS/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) (01/2013), Displacement(CC) (7.545), Transmission (MBS2 X 5), Fuel Type (SOLAR / DIESEL), Number Plate Color (Yellow), and Monthly Mileage (Km) (Monthly Mileage). A section titled 'Basic Information (Lease)' contains fields for Customer Name, Lease Category (New), Previous Agreement Number, Term of Payment (Days), Start Date Usage Unit Plan (mm/dd/yyyy), Lease Period Plan (Months), End Date Usage Unit Plan (mm/dd/yyyy), Term of Payments, Maintenance Type (Customer Service Desk), Insurance (Yes), Purchase Requirement After Lease (Yes), Carroserie Type (Dump Truck), Carroserie (Rp 124,000,000), Accessories Type (Accessories), and Accessories (Rp 0). At the bottom are buttons for 'Save Changes' and 'Next Step >'. A red box highlights the 'Save Changes' button with the text 'To save and navigate the calculation data'.

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

The screenshot shows the 'Update Operating Lease Calculation' screen. At the top, there's a 'Back' button, a 'Return back to list of operating lease calculation' link, and a 'To entry a calculation data' link. Below these are tabs for 'Step 1', 'Step 2', 'Step 3', 'Step 4', 'Step 5', and 'Step 6'. The 'Step 1' tab is selected. There are sections for 'Cost Condition', 'DSF Finance Condition', 'Product', 'Carrousel', 'Accessories', and 'Registration Fee'. Each section contains various input fields for amounts and percentages. At the bottom, there are buttons for 'Previous Step', 'Save Changes', and 'Next Step'.

Cost Condition

Product Price Rp 790,000,000	Dealer Discount Rp 65,000,000	ATPM Discount Rp ATM Discount	Product Price Total Rp 725,000,000
Accessories Price Rp Accessories Price	Supplier Discount Rp Supplier Discount	Accessories Price Total Rp 0	
Carrousel Price Rp 124,000,000	Supplier Discount Rp Supplier Discount	Carrousel Price Total Rp 124,000,000	

DSF Finance Condition

Residual Value Amount Rp 274,200,000	Residual Value (%) 32.290620	Standard Residual Value (%) 30.000000	Standard Residual Value Amount Rp 274,200,000
---	---------------------------------	--	--

Product

DP Before BAST (%) 30.000000	DP Period to BAST (Days) 30	Payment Settlement before BAST (%) 70.000000	Payment Settlement Period to BAST (Days) 14
---------------------------------	--------------------------------	---	--

Carrousel

DP Before BAST (%) 30.000000	DP Period to BAST (Days) 30	Payment Settlement Before BAST (%) 70.000000	Payment Settlement Period to BAST (Days) 14
---------------------------------	--------------------------------	---	--

Accessories

DP Before BAST (%) DP Before BAST (%)	DP Period to BAST (Days) DP Period to BAST (Days)	Payment Settlement Before BAST (%) Payment Settlement Before BAST Accessories	Payment Settlement Period to BAST (Days) Payment Settlement Period to BAST (Days)
--	--	--	--

Registration Fee

Registration Value Rate (%) 0.1400	Registration Value Amount Rp 57,052,800
---------------------------------------	--

Bottom Navigation

← Previous Step | Save Changes | Next Step →

To save and navigate the calculation data

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

The screenshot shows the 'Update Operating Lease Calculation' screen. At the top, there are navigation buttons: 'Back' (highlighted), 'Return back to list of operating lease calculation' (highlighted), and 'To entry a calculation data' (highlighted). Below these are tabs for 'Step 1' through 'Step 6'. The main area is divided into sections: 'Maintenance Basic Information' and 'Maintenance Condition & Cost'.

Maintenance Basic Information:

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

Maintenance Condition & Cost:

[Lease Period] will be filled automatically (highlighted box around the Lease Period field).

Maintenance Type	Periodic Maintenance	Oil Exchange	Exchange of Oil and Fats	Total Maintenance Cost
Full Maintenance	5000 Km	2000 Km	Hello	Rp 6000
Irregular Maintenance	example			Rp 8000
Battery	6000 Km			Rp 9000
Tire	6000 Km			Rp 9100
Maintenance of Special OP Parts	Example			Rp 9140
CSD	Example			Rp 9140
Maintenance of Others (1)	Example			Rp 9140
Maintenance of Others (2)	Example			Rp 9140
Maintenance of Others (3)	Example			Rp 9140

Annotations:

- Value of [Total Maintenance Cost] is total budget during the period of lease** (highlighted box around the Total Maintenance Cost field, which contains Rp 2000000).
- To save and navigate the calculation data** (highlighted box around the 'Save Changes' button in the bottom left).

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

The screenshot shows the 'Update Operating Lease Calculation' screen. At the top, there's a 'Back' button, a link to 'Return back to list of operating lease calculation', and a note 'To entry a calculation data'. Below this is a navigation bar with tabs: Step 1, Step 2, Step 3, Step 4, Step 5, Step 6, and a 'Draft' button.

Insurance Basic Information: This section includes fields for Start Date of Insurance (02/01/2015), End Date of Insurance (03/03/2019), Coverage Period (Months) (49), Insurance Company (Tokio Marine), Insurance Agent (No Agent), Insurance of Payment Cycle (Yearly), Region (Region 2), Class of Insurance (ALL RISK +++), Commission Rate (%), and Seat Capacity (2).

Remarks: A text area labeled 'Remarks' contains the placeholder 'Remarks'.

Product: This section has four columns: Model Name, Product Type, Product Category, and Model Year (yyyy/mm). Each column has a placeholder: Model Name, Product Type, Product Category, and Model Year (yyyy/mm).

Insurance Condition & Cost: This section lists various insurance types with their corresponding coverage levels and basic rates. Each row includes a 'Rp' button and a 'Gross Premium' label.

Insurance Type	Coverage	Basic Rate (%)	Rp	Gross Premium
Basic Premium	Comprehensive	Basic Rate (%)	Rp	Gross Premium
Third Party Liability (TPL)	Comprehensive	Basic Rate (%)	Rp	Gross Premium
Passenger Legal Liability (PLL)	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

Validation Note: A red box highlights the note: '[Mediator Fee Amount] will be filled manually and value of [Mediator Fee Amount] ≤ value of [Commission Amount]'.

Total Premium Calculations: This section shows the breakdown of premiums: Total Gross Premium (Rp), Commission Amount (Rp), Net Premium (Rp), and Net Premium (Rp).

Action Buttons: At the bottom are buttons for 'Previous Step', 'Save Changes' (highlighted in blue), 'Next Step >', and a note 'To save and navigate the calculation data'.

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	12 October 2015
Status	Baseline	Version	8.0
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Figure 30 – Screen of Update Operating Lease Calculation screen (Step 4)

The screenshot shows the 'Update Operating Lease Calculation' screen with several red boxes highlighting specific fields and instructions:

- Top Left:** A red box around the 'Back' button with the text 'Return back to list of operating lease calculation'.
- Top Right:** A red box around the 'Save Changes' and 'Submit' buttons with the text 'To entry a calculation data'.
- Header:** Step 1 through Step 6 are shown at the top. Below them, 'Created by' is Abdul Somad Zaini, 'Created Date' is 01/01/2014, 'Last Modified By' is Abdul Somad Zaini, and 'Last Modified Date' is 01/01/2014. A 'Draft' button is also present.
- Basic Information (Lease Fee):**
 - A red box highlights the 'Start Date Usage Unit Plan (mm/dd/yyyy)' field with the instruction: '[Lease Period] will be filled automatically'.
 - A red box highlights the 'Rate Insurance Income' field with the instruction: 'Enable [Rate] Insurances Income field and set value same with [Commission Amount] rate'.
 - A red box highlights the 'Interest Income' field with the instruction: 'Enable [Interest Income] field and set value based on formula in Excel file'.
- Setting Monthly Installment:**
 - A red box highlights the 'Ratio' field with the value 1.200000.
 - A red box highlights the 'Borrowing Rate (%)' field with the value 11.160000.
 - A red box highlights the 'Spread of Interest Rate (%)' field with the value 5.000000.
 - A red box highlights the 'Internal Interest Rate (%)' field with the value 16.160000.
- Continuation of Lease Cost:**
 - A red box highlights the 'Product Price' field with the value Rp 702,000,000.
 - A red box highlights the 'Residual Value (-)' field with the value Rp 210,600,000.
 - A red box highlights the 'Registration Value Amount' field with the value Rp 47,174,400.
 - A red box highlights the 'Maintenance Cost' field with the value Rp 24,000,000.
 - A red box highlights the 'Replacement Unit Cost' field with the value Rp 0.
 - A red box highlights the 'Insurance Cost' field with the value Rp 44,097,850.
 - A red box highlights the 'Mediator Fee Cost' field with the value Rp 11,024,411.
 - A red box highlights the 'Mobilization Cost' field with the value Rp 0.
 - A red box highlights the 'Demobilization Cost' field with the value Rp 0.
 - A red box highlights the 'Interest Cost' field with the value Rp 184,088,838.
 - A red box highlights the 'Interest Cost for Term of Payment' field with the value Rp 1,601,052.
 - A red box highlights the 'Interest Cost Payment Before DAST' field with the value Rp 0.
 - A red box highlights the 'Total Cost' field with the value Rp 704,260,571.
 - A red box highlights the 'Monthly Installment Amount' field with the value Rp 18,716,000.
 - A red box highlights the 'Profit Result' field with the value Rp 111,084,411.
- Bottom:**
 - A red box highlights the 'Total Installment' field with the value Rp 900,960,000.
 - A red box highlights the 'Insurance Income' field with the value Rp 11,024,415.
 - A red box highlights the 'Total Income' field with the value Rp 111,084,415.
 - A red box highlights the 'Total Income After Lease Cost' field with the value Rp 121,116,444.
 - A red box highlights the 'Save Changes' and 'Submit' buttons with the text 'To save and navigate the calculation data'.

Functional Specification: A.1 Marketing Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	12 October 2015
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Figure 314 – Screen of Update Operating Lease Calculation screen (Step 5)

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.

The screenshot shows the 'Update Operating Lease Calculation' screen. At the top, there's a navigation bar with a 'Back' button, a link to 'Return back to list of operating lease calculation', and a 'Draft' indicator. Below the navigation is a breadcrumb trail: Step 1, Step 2, Step 3, Step 4, Step 5 (highlighted in blue), and Step 6. Underneath the breadcrumb is a row of metadata: Created by (Abdul Somad Zaini), Created Date (01/01/2014), Last Modified By (Abdul Somad Zaini), and Last Modified Date (01/01/2014). The main content area is divided into sections: 'Basic Information (Product)' and 'Basic Information (Lease)'. The 'Product' section contains fields like Product Registration Code (VEH/00021/V-001/PNE227MS/201301), Product Type (Vehicle), Product Category (COMMERCIAL TRUCK), etc. The 'Lease' section contains fields like Customer Name (211537), Lease Category (New), Previous Agreement Number (-), Term of Payment (Days) (14), etc. At the bottom, there are two buttons: 'Save as Draft' and 'Next Step >'. A red box highlights the 'Next Step >' button, with an arrow pointing to the text 'To navigate the calculation data'.

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	12 October 2015
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Figure 32 – Screen of View Detail Operating Lease Calculation (Step 1)

The screenshot shows a detailed view of an operating lease calculation. At the top, there's a header with a 'Back' button, a link to 'Return back to list of operating lease calculation', and a status indicator 'Draft'. Below the header, a navigation bar shows steps 1 through 6. The main content is organized into several sections:

- Cost Condition:** A table showing product prices, discounts, and total amounts for Product Price, Accessories Price, and Carrosserie Price.
- Finance Condition:** A table showing effective rates, flat rates, and other financial parameters for Spread Effective (%), Borrowing Rate Flat (%), Prime Rate Effective (%), Prime Rate Flat (%), and so on.
- Product:** A table showing DP Before BAST (%), DP Period to BAST (Days), Payment Settlement before BAST (%), and Payment Settlement Period to BAST (Days).
- Carroserie:** A table showing DP Before BAST (%), DP Period to BAST (Day), Payment Settlement Before BAST, and Payment Settlement Period to BAST (Days).
- Accessories:** A table showing DP Before BAST (%), DP Period to BAST (Days), Payment Settlement Before BAST, and Payment Settlement Period to BAST (Days).
- Registration Fee:** A table showing Registration Value Rate (%) and Registration Value Amount.

At the bottom, there are buttons for 'Previous Step', 'Save Changes', and 'Next Step', along with a note 'To navigate the calculation data'.

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	12 October 2015
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Figure 33 – Screen of View Detail Operating Lease Calculation (Step 2)

The screenshot shows a software application window titled 'View Detail Operating Lease Calculation'. At the top left is a 'Back' button. To its right is a red box labeled 'Return back to list of operating lease calculation'. In the top right corner is a 'Draft' button. Below the header is a breadcrumb trail with six steps: Step 1, Step 2, Step 3 (highlighted in blue), Step 4, Step 5, and Step 6. Underneath the breadcrumb are 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). A red box labeled 'A detail calculation data' points to the main content area.

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	Total Maintenance Cost
Periodic Maintenance	Oil Exchange	Rp 10.000.000
Irregular Maintenance	Exchange of Oil and Fats	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

Action Buttons

At the bottom left are buttons for 'Previous Step', 'Save Changes' (highlighted in blue), and 'Next Step'. A red box labeled 'To navigate the calculation data' points to these buttons.

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	12 October 2015
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Figure 34 – Screen of View Detail Operating Lease Calculation (Step 3)

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

Insurance Basic Information

Start Date Usage Unit Plan (mm/dd/yyyy) 02/01/2015	End Date Usage Unit Plan (mm/dd/yyyy) 02/03/2019	Coverage Period (Months) 49
Insurance Company Tokio Marine	Insurance Agent No Agent	Insurance of Payment Cycle Yearly
Class of Insurance ALL RISK +++	Commission Rate (%) 25.00	Seat Capacity 2
Remarks -		

Product

Model Name	Product Type	Product Category	Model Year (yyyy/mm)
Model Name	Product Type	Product Category	Model Year (yyyy/mm)

Insurance Condition & Cost

Premium Type	Premium Value	Commission %	Commission Value	Total Premium
Basic Premium	84900000.00	1.33	Rp 11,225,072	52,900,289
Third Party Liability (TPL)	50000000.00	1.13	Rp 5,665,000	2,297,774
Passenger Legal Liability (PLL)	0	0	Rp 0	0
Personal Accident for Passenger (PAP)	20000000.00	0.10	Rp 2,000,000	245,096
Personal Accident for Driver (PAD)	20000000.00	0.50	Rp 10,000,000	408,493
Strike, Riots & Civil Commotion (SRCC)	84900000.00	0.05	Rp 4,245,000	1,403,060
Terrorism & Sabotage (TS)	84900000.00	0.05	Rp 4,245,000	1,403,060
Flood & Windstorm (FLD)	84900000.00	0.10	Rp 8,490,000	2,806,119
Earthquake & Tsunami (EAQ)	84900000.00	0.10	Rp 8,490,000	2,806,119
Authorized Workshop	84900000.00	0.15	Rp 12,735,000	4,209,179
Total Gross Premium: Rp 52,900,289 Commission Amount: Rp 11,225,072 Brokerage Fee Amount: Rp 10,000,000 Net Premium: Rp 30,675,217				

Previous Step Save Changes Next Step >

To navigate the calculation data

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	12 October 2015
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Figure 35 – Screen of View Detail Operating Lease Calculation (Step 4)

The screenshot shows a detailed view of an operating lease calculation. The top navigation bar includes a 'Back' button, a 'Return back to list of operating lease calculation' link, and a 'A detail calculation data' link. The main content is organized into several sections:

- Basic Information (Lease Fee):** Contains fields for Start Date, End Date, Lease Period Plan, Rate Insurance Income, Admin Fee Amount, Security Deposit Payment, First Lease Payment, Total Unit Quantity Lease, and Special Case (Remarks).
- Setting Monthly installment:** Shows Borrowing Rate (%), Spread of Interest Rate (%), and Internal Interest Rate (%).
- Confirmation of Lease Cost:** A large table listing various costs in Rupiah (Rp) and their corresponding values.
- Profit & Result:** A summary table showing monthly installment amount, total installment, insurance income, total income, and total profit after lease cost.
- Buttons at the bottom:** Includes 'Previous Step', 'Save Changes', 'Submit', and a 'To navigate the calculation data' link.

Functional Specification: A.1 Marketing Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	12 October 2015
Status	Baseline	Version	8.0
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Figure 36 – Screen of View Detail Operating Lease Calculation (Step 5)

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	1.200000		
OPL Calculation Ref	00036/OCN/01/05/2015		

layout report following sample

Change label and value of [Profit Acknowledged Amount] become [Total Income After Lease Cost]

Proposed By, Acknowledged Amount, Acknowledgedman1, Acknowledgedman2, Acknowledgedman3

Approved By, Approvedman1

Figure 37 – Screen of Operating Lease Proposal Report

Functional Specification: A.1 Marketing Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	12 October 2015
Status	Baseline	Version	8.0
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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

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	INDUSTRY & MANUFACTURES	Address	JL. RAYA HAMENGKUBIWONO IX/JL. RAYA BEKASI KM 24,5
Telephone & Fax	021-46951009		

(2) PIC DATA			
Name	Achimad 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	1.200000		
OPL Calculation Reff	00036/OCN/01/05/2015		

Thank you for your consideration and approval for this request.

Proposed By: _____ Acknowledge By: _____

Approved By: _____

Approvedman1 _____ Acknowledgeman1 _____ Acknowledgeman2 _____ Acknowledgeman3 _____

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	12 October 2015
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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
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
------------------------------	--------------------------	--------------------------

(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) 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
% 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 1,061,760,000
Total Installment 1,061,760,000
Insurance Income 13,225,072
TOTAL INCOME 1,061,760,000
LEASE 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 207,428,004
Term of Payment Cost 2,016,642
Interest Cost Payment Before BAST 2,708,082
TOTAL LEASE COST 920,903,797
INCOME AFTER LEASE COST 140,856,203

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 Prasetya	Date	12 October 2015
Status	Baseline	Version	8.0
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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
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	
(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) 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	
(4) TERM & CONDITION FOR PAYMENT			
(A) Product	(B) Carroserie	(C) Accessories	
% 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 Paymen 14			
Monthly Installment Amount 22,120,000			
Installment Amount/Period 1,061,760,000			
(6) INCOME PROJECTION			
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 Prasetya	Date	12 October 2015
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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
Basic Information (Product)					
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
Basic Information (Lease)					
Customer Code	Varchar	10	N/A	Yes	OPLCalculation.CustomerCode

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
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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
Cost Condition					
Product Price	Decimal	18,3	###,###,###.##	No	OPLBasicCondition.ProductPrice
Dealer Discount	Decimal	18,3	###,###,###.##	No	OPLBasicCondition.ProductDiscount
ATPM Discount	Decimal	18,3	###,###,###.##	No	OPLBasicCondition.ATPMDiscount
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

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Standard Residual Rate Value	Decimal	18,3	###,###,###.##	No	OPLBasicCondition.Sr esidualValuePercent
Standard Residual Value Amount	Decimal	18,3	###,###,###.##	No	OPLBasicCondition.S ResidualValueAmoun t
DSF Finance Condition					
Spread Effective Percent	Decimal	18,3	###,###,###.##	No	OPLFinanceConditio. SpreadEffectivePerce nt
Borrowing Rate Flat Percent	Decimal	18,3	###,###,###.##	No	OPLFinanceConditio. BorrowingFlatPercen t
Prime Rate Effective	Decimal	18,3	###,###,###.##	No	OPLFinanceConditio. PrimeEffectivePercen t
Prime Rate Flat Percent	Decimal	18,3	###,###,###.##	No	OPLFinanceCondition . PrimeFlatPercent
Borrowing Rate Effective	Decimal	18,3	###,###,###.##	No	OPLFinanceConditio. BorrowingEffectiveP ercent
Spread Flat Percent	Decimal	18,3	###,###,###.##	No	OPLFinanceConditio. SpreadFlatPercent
Administration Fee	Decimal	18,3	###,###,###.##	No	OPLFinanceConditio. AdministrationFeeA mount
Replacement Unit Cost	Decimal	18,3	###,###,###.##	No	OPLFinanceConditio. ReplacementCarAmo unt
Mobilizations Fee	Decimal	18,3	###,###,###.##	No	OPLFinanceConditio. MobilizationFeeAmo unt
Demobilizations Fee	Decimal	18,3	###,###,###.##	No	OPLFinanceConditio. DemobilizationFeeA mount
Term of Payment	Decimal	18,3	###,###,###.##	No	OPLFinanceConditio. TermPaymentDays
Payment Type	Varchar	100	N/A	No	OPLFinanceConditio. PaymentType

Product Finance Condition

DP Before BAST Percent	Decimal	18,3	###,###,###.##	No	OPLFinanceConditio. DPBeforeBASTProdu ct
DP Period to BAST	Int	N/A	N/A	No	OPLFinanceConditio. DPPeriodBASTProdu cт
Payment Settlement Before BAST	Decimal	18,3	###,###,###.##	No	OPLFinanceConditio. PSBeforeBASTProdu ct
Payment Settlement Period to BAST	Int	N/A	N/A	No	OPLFinanceConditio. PSPeriodBASTProdu ct

Carrosserie Finance Condition

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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
Accessories Finance Condition					
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
Registration Fee Condition					
Registration Value Rate	Decimal	18,3	###,###,###.##	No	OPLFinanceConditio. RegistrationValueRat e
Registration Value Amount	Decimal	18,3	###,###,###.##	No	OPLFinanceConditio. RegistrationValueAm ount
Maintenance Condition & Cost					
Maintenance Type	Varchar	100	N/A	No	OPLCalculation.Main tenanceType
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

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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
Insurance Basic Information					
Start Date of Insurance	Date	N/A	mm-dd-yyyy	No	OPLCalculation.StartPeriodPlan
End Date of Insurance	Date	N/A	mm-dd-yyyy	No	*calculation result at runtime
Coverage Period	Int	N/A	N/A	No	OPLInsuranceCondition.CoveragePeriod
Insurance Company	Varchar	100	N/A	No	OPLInsuranceCondition.InsuranceCompany
Insurance Agent	Varchar	100	N/A	No	OPLInsuranceCondition.InsuranceAgent

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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
Insurance Condition Cost					
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 Passenger Legal Liability (PLL)	Decimal	18,6	###,###,###.##	No	OPLInsuranceCondition.ComprehensiveRatePPL
Passenger Legal Liability (PLL) Rate	Decimal	18,3	###,###,###.##	No	OPLInsuranceCondition.BasicRatePPL
Passenger Legal 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

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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
Basic Information (Lease Fee)					
Start Date Usage Unit Plan	Date	N/A	mm-dd-yyyy	No	OPLCalculation.StartPeriodPlan

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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	OPLInsuranceCondition.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
Monthly Installment Setting					
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
Confirmation of Lease Cost					
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	OPLInsuranceCondition.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
Profit Result					
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
Audit Trail					
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
Status Management					
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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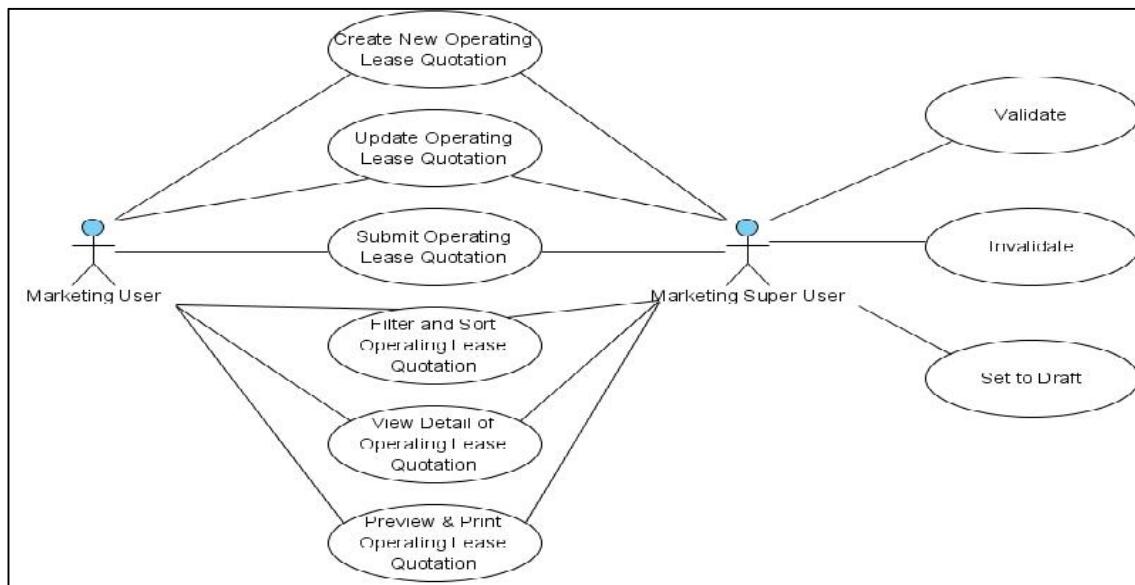


Figure 41 – Use case diagram of Operating Lease Quotation

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).

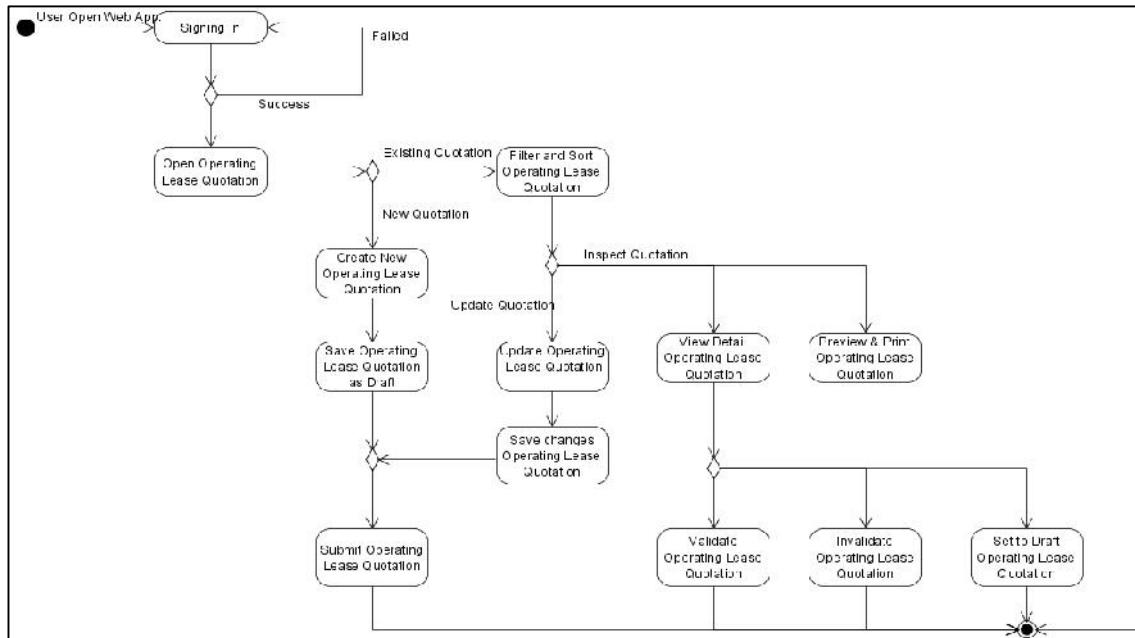


Figure 42 – Activity diagram of Operating Lease Quotation

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

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		Marketing super user	<ul style="list-style-type: none"> 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.
2.	Open operating lease quotation module	Marketing user, Marketing super user	<ul style="list-style-type: none"> After login, actor can open operating lease quotation module on the menu of system. After that, the screen will be open. Once it is open, operating lease quotation list will be shown and existing data will be displayed.
3.	Create new operating lease quotation	Marketing user, Marketing super user	<ul style="list-style-type: none"> 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. 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. The mandatory fields cannot be blank.
4.	Save operating lease quotation as draft	Marketing user, Marketing super user	<ul style="list-style-type: none"> After filling out the fields, actor can click [Save as draft] button, if want to make a records as <u>draft</u>. After that, system will proceed to store a data into database and will automatically check a validity of data (such as; data type, mandatory data, and data length) If done, actor can click [Back] button to return to the list of operating lease quotation, then operating lease quotation data will be displayed.
5	Submit operating lease quotation record	Marketing user, Marketing super user	<ul style="list-style-type: none"> Once data is saved and data has been confirmed, actor can submit the record by click [Submit] button. After that system will set an operating lease quotation record as <u>submitted (or not draft)</u>. If done, actor can click back button to return to the list of operating lease quotation.
6.	Update operating lease quotation records	Marketing user, Marketing super user	<ul style="list-style-type: none"> On the list of operating lease quotation screen actor can click [Edit] button to update the record by editing data on the edit screen. If the quotations still <u>draft</u>, <i>marketing user</i> can click [Edit] button on the right side of the records on list of operating lease quotation screen. If the quotation records already <u>submit</u> and the status is <u>valid</u>, <i>marketing user</i> cannot click [edit] button to open edit operating lease quotation screen. If edit screen opens, actor can edit a record by inputting a data on each of the fields.

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			<ul style="list-style-type: none"> The mandatory fields cannot be blank.
7.	Filter and sort operating lease quotation records	Marketing user, Marketing super user	<ul style="list-style-type: none"> Actor can filter and sort the record based on columns where displayed on the list. 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. 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. 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.
8.	View detail operating lease quotation record	Marketing user, Marketing super user	<ul style="list-style-type: none"> On the list of operating lease quotation screen actor can view detail an operating lease quotation on the view detail screen. 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. There are 2 conditions when view detail screen opens: <ol style="list-style-type: none"> If the quotation status is still draft or already valid, [Validate] button and [set to draft] button will be disappeared. If quotation status was submitted, [Validate] button and [Set to draft] button will be shown. If done, actor can click back button to return to the list.
9.	Validate Operating lease quotation	Marketing super user	<ul style="list-style-type: none"> 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 valid, actor cannot rollback the status to submitted or draft. After that, system will proceed automatically to change the status, and actor can click [Back] button to return to the list.
10.	Invalidate Operating lease quotation	Marketing super user	<ul style="list-style-type: none"> In this feature (for the worst case), if quotation were made inoperative/ not applicable, actor can change the status from valid to not valid. 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. After that, system will proceed automatically to change the status, and actor can click [Back] button to return to the list.
11.	Set to Draft of Operating lease quotation	Marketing super user	<ul style="list-style-type: none"> To utilize this feature; If quotation still need to be revised and status still not valid yet, actor can change

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

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.

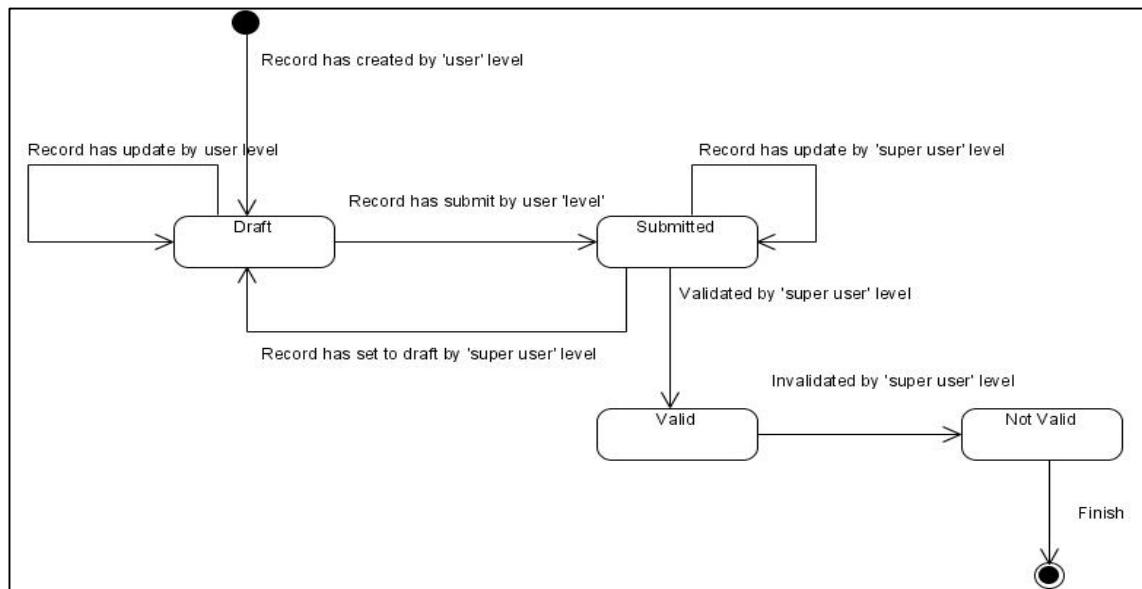


Figure 43 – Status diagram of Operating Lease Quotation

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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

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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 a form for creating a new operating lease quotation. The form 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, and Displacement (CC).
- 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 is a large red box labeled "To save and navigate the quotation data".

Annotations with red boxes and arrows:

- An arrow points from the "Back" button to the text "Return back to list of operating lease quotation".
- An arrow points from the "To entry a quotation data" button to the "Save as Draft" and "Submit" buttons.
- A large red box covers the entire content area of the form, from the top sections down to the "Action Buttons".
- A red box highlights the "Save as Draft" and "Submit" buttons at the bottom left.
- A red box highlights the "To save and navigate the quotation data" button at the bottom right.

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 left is a 'Back' button. In the top center, there are two buttons: 'Return back to list of operating lease quotation' and 'To entry a quotation data'. On the far right is a green 'Valid' button. Below these are header fields: 'Created by' (Abdul Somad Zaini), 'Created Date' (01/01/2014), 'Last Modified By' (Abdul Somad Zaini), and 'Last Modified Date' (01/01/2014). The main form is divided into sections: 'OPL Calculation Number' (with 'Example' placeholder), 'OPL Proposal Number' (with 'Example' placeholder), 'OPL Quotation Number' (with 'Example' placeholder), 'Customer Code' (with 'Example' placeholder), 'Customer Name' (with 'Example' placeholder), 'OPL Quotation Date (mm/dd/yyyy)' (with 'Example' placeholder), 'Start Period Plan (mm/dd/yyyy)' (with 'Example' placeholder), 'End Period Plan (mm/dd/yyyy)' (with 'Example' placeholder), 'Lease Period Plan (Months)' (with 'Example' placeholder), and 'Valid Until (mm/dd/yyyy)' (with 'Example' placeholder). Below this is a 'Basic Information (Product)' section with six pairs of input fields: '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', and 'Displacement (CC)'. Under 'Quotation Information', there are four pairs of input fields: 'Monthly Rents'/'Down Payment', 'Pre-Paid Month Rent', 'Tax Amount'/'Expected Delivery Date (mm/dd/yyyy)', and 'Delivery Place'. There are also sections for 'Additional Items' (with a long input field) and 'Remarks' (with a long input field). At the bottom 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 it.

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 editing 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.

Operating Lease Quotation

Save As button

Print button

DIPO STAR FINANCE
Solusi Kredit Bisnis!
SENTRAL SENAYAN 2, 3RD FLOOR, JL. ASIA AFRICA NO. 8, SENAYAN, JAKARTA
Telp: (021) 57954100, Fax: (021) 57954075

Operating Lease Quotation
To: KARYA DEWI PUTRA, PT

Date: 28 - September - 2015
No.: 00011/QN/01/09/2015

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

Validity: Within one month after the date.
Monthly Rent would be charged due to various factors.
(i.e. price, tax, interest, rate, etc.)

(1) Description of the Leased Property (Vehicle)

Manufacture/Name	DAIHATSU		
Model Type	GMX		
Model Code	GM15PU	Displacement	1495
Transmission		Engine	3SZ - VE, DOCH VVTI
Color	Black	Passengers	2
Accessories and Options		Payload (ton)	0
		Carrosseries Type	
		Residual Value	100.000.000
		New / Used	New

(2) Term/Period 24 months **(3) Expected Delivery Date** 30 - September - 2015

(4) Monthly Use / Kilometer

(5) Monthly Rent Before VAT 29.550.000

Down Payment 0 Pre-paid Months Rent

Term of Payment 14 Days

(6) Delivery Place Jakarta Pusat

(7) Type of Lease Agreement

: Included : not included

Finance Items	Additional Items
<input checked="" type="checkbox"/> Cost of Product	Spare Car for inspection over 24 hours except accident
<input checked="" type="checkbox"/> Accessories and Carrosseries	Spare Car for repairing in case of Accident
<input checked="" type="checkbox"/> Registration Charges	Roadside Assistance
<input checked="" type="checkbox"/> Compulsory Third Party Insurance (see below)	Emergency Telephone Service
Maintenance Items	Others
<input checked="" type="checkbox"/> Scheduled Check	
<input checked="" type="checkbox"/> Parts Change	
<input checked="" type="checkbox"/> Oil Change	
<input checked="" type="checkbox"/> Battery Changes	
<input checked="" type="checkbox"/> Tire Changes	
<input checked="" type="checkbox"/> Customer Service Desk	
<input checked="" type="checkbox"/> Other Maintenance 1	
<input checked="" type="checkbox"/> Other Maintenance 2	

(8) Comprehensive Motor Insurance

<input checked="" type="checkbox"/> Third Party Liability	IDR 50.000.000	Each Person
<input checked="" type="checkbox"/> Passenger Legal Liability	IDR 50.000.000	Each Accident
<input checked="" type="checkbox"/> Personal Accident for Passenger	IDR 50.000.000	Each Person
<input checked="" type="checkbox"/> Personal Accident for Driver	IDR 50.000.000	Each Person
<input checked="" type="checkbox"/> Strike, Riots & Civil Commotion	IDR 5.000.000	Each Person
<input checked="" type="checkbox"/> Terrorism & Sabotage	IDR 5.000.000	Each Accident
<input checked="" type="checkbox"/> Flood & Windstorm	IDR 5.000.000	Each Accident
<input checked="" type="checkbox"/> Earthquake & Tsunami	IDR 50.000.000	Each Accident
<input checked="" type="checkbox"/> Automobile Sum Insured (Damage on the Vehicle by collision, fire, and theft)	IDR 700.000.000	

(9) Remarks

Comprehensive value, not prem
value

Basic premium value

PT. Dipo Star Finance We agree and accepted this Quotation

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

Functional Specification: A.1 Marketing Module				
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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
Quotation Identity				
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
Product Basic Information				
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
Quotation Information				
Customer Code	Text	10	N/A	Yes
Customer Name	Text	100	N/A	Yes
Valid Until	Date	N/A	mm-dd-yyyy	No

Functional Specification: A.1 Marketing Module

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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
Audit Trail				
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
Status Management				
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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2.5 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.

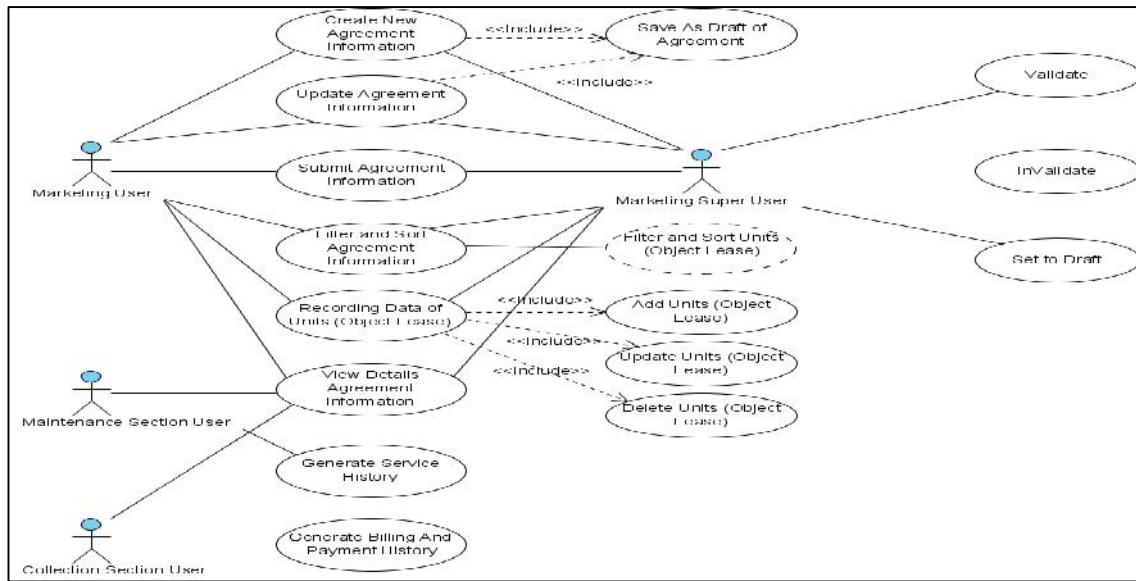


Figure 50 – Use case diagram of Agreement Information Inquiry

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).

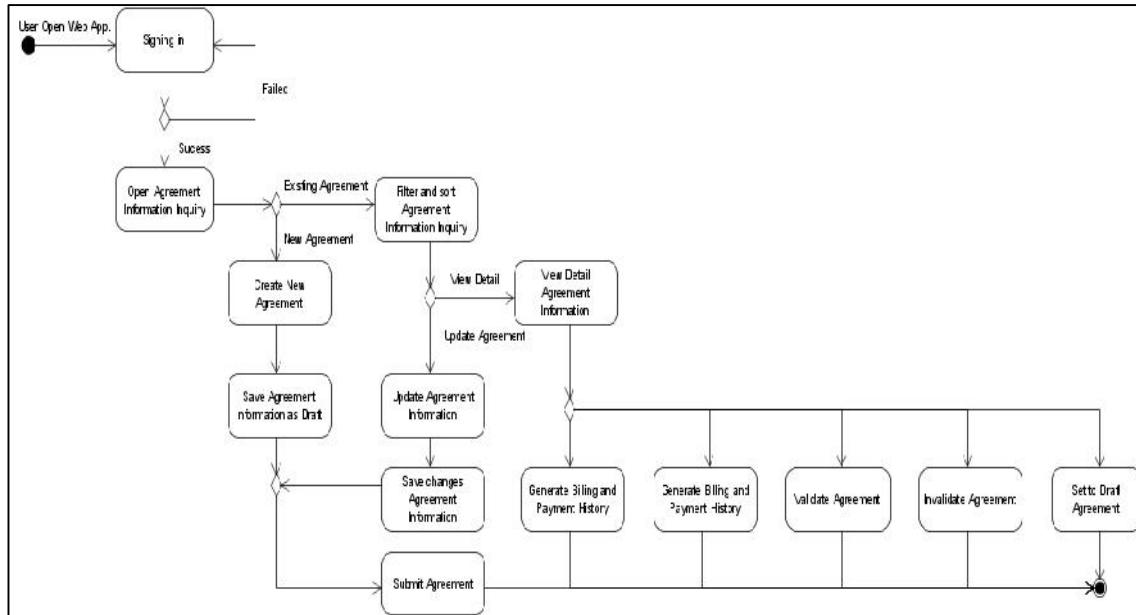


Figure 51 – Activity diagram of Agreement Information Inquiry

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No.	Steps/ Operations	Actor/ People	Scenario
1	Signing in	Marketing user, Marketing super user	<ul style="list-style-type: none"> Actor fills out sign in form by inputting user name and password. 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.
2.	Open agreement information inquiry module	Marketing user, Marketing super user	<ul style="list-style-type: none"> After login, actor can open agreement information inquiry module on the menu of system. After that, the screen will be open. Once it is open, agreement information list will be shown and existing data will be displayed.
3.	Create new agreement information inquiry	Marketing user, Marketing super user	<ul style="list-style-type: none"> 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. 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. Once it done, actor can fill out other information on each field. The mandatory fields cannot be blank.
4.	Save operating lease agreement as draft	Marketing user, Marketing super user	<ul style="list-style-type: none"> After filling out the fields, actor can click [Save as draft] button, if want to make a records as <u>draft</u>. After that, system will proceed to store a data into database and will automatically check a validity of data (such as; data type, mandatory data, and data length) If done, actor can click [Back] button to return to the list of agreement, then agreement data will be displayed.
5	Submit operating lease agreement record	Marketing user, Marketing super user	<ul style="list-style-type: none"> Once data is saved and data has been confirmed, actor can submit the record by click [Submit] button. After that system will set an agreement record as <u>submitted (or not draft)</u>. If done, actor can click [Back] button to return to the list of agreement.
6.	Update operating lease agreement	Marketing user,	<ul style="list-style-type: none"> On the list of agreement screen actor can click [Edit] button to update the record by editing data on the edit

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	records	Marketing super user	<p>screen.</p> <ul style="list-style-type: none"> If the agreement still <u>draft</u>, user can click [Edit] button on the right side of the records on list of agreement screen. If the agreement records already <u>submit</u> and the status is <u>valid</u>, <i>marketing user</i> cannot click [edit] button to open edit agreement screen. If edit screen opens, actor can edit a record by inputting a data on each of the fields. The mandatory fields cannot be blank.
7.	Filter and sort operating lease agreement records	Marketing user, Marketing super user	<ul style="list-style-type: none"> Actor can filter and sort the record based on columns where displayed on the list. 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. 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. 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.
8.	View detail operating lease agreement record	Marketing user, Marketing super user	<ul style="list-style-type: none"> On the list of agreement actor can view detail agreement information on the view detail screen. 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. There are2 conditions when view detail screen opens: <ol style="list-style-type: none"> If the agreement status is still <u>draft</u> or already <u>valid</u>, [Validate] button and [set to draft] button will be disappeared. If the agreement status was <u>submitted</u>,[Validate] button and [Set to draft] button will be shown. If done, actor can click back button to return to the list.
9.	Validate Operating lease agreement	Marketing super user	<ul style="list-style-type: none"> 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 <u>valid</u>, actor cannot rollback the status to <u>submitted</u> or <u>draft</u>.

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			<ul style="list-style-type: none"> After that, system will proceed automatically to change the status, and actor can click [Back] button to return to the list.
10.	Invalidate Operating lease agreement	Marketing super user	<ul style="list-style-type: none"> In this feature (for the worst case), if quotation were made inoperative/ not applicable, actor can change the status from valid to not valid. 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. After that, system will proceed automatically to change the status, and actor can click [Back] button to return to the list.
11.	Generate Service History	Maintenance Section user	<ul style="list-style-type: none"> 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.
12.	Generate Billing Payment History	Collection Section user	<ul style="list-style-type: none"> 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.

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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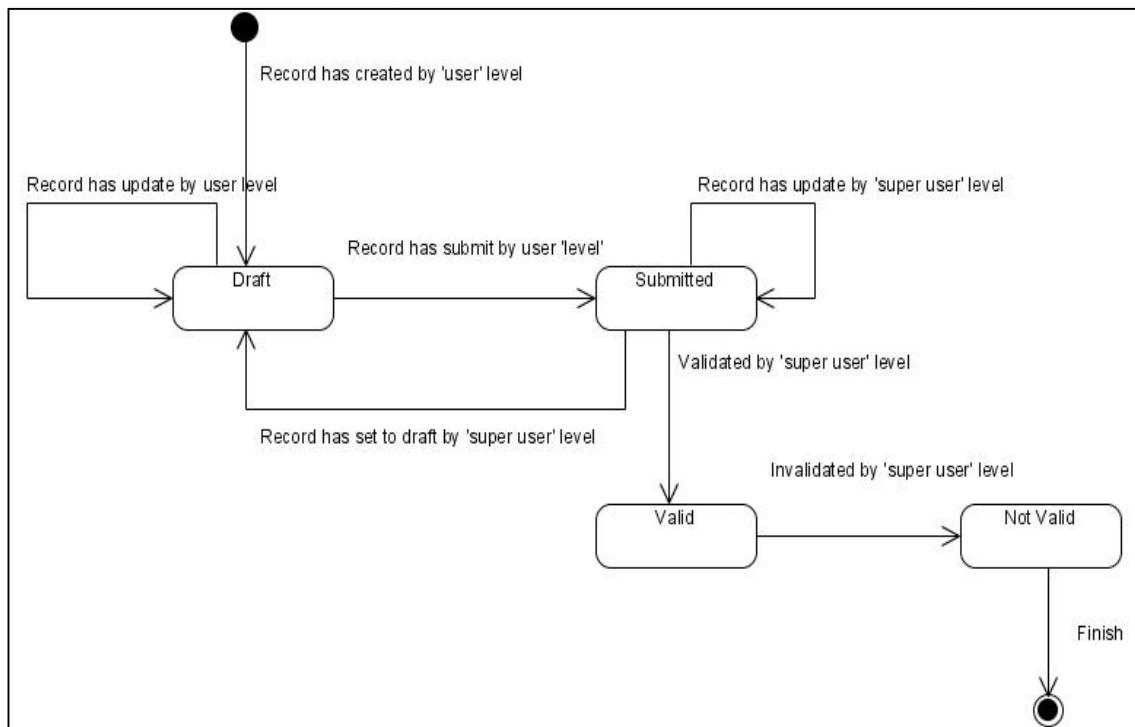


Figure 52 – Status diagram of Operating Lease Agreement

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.

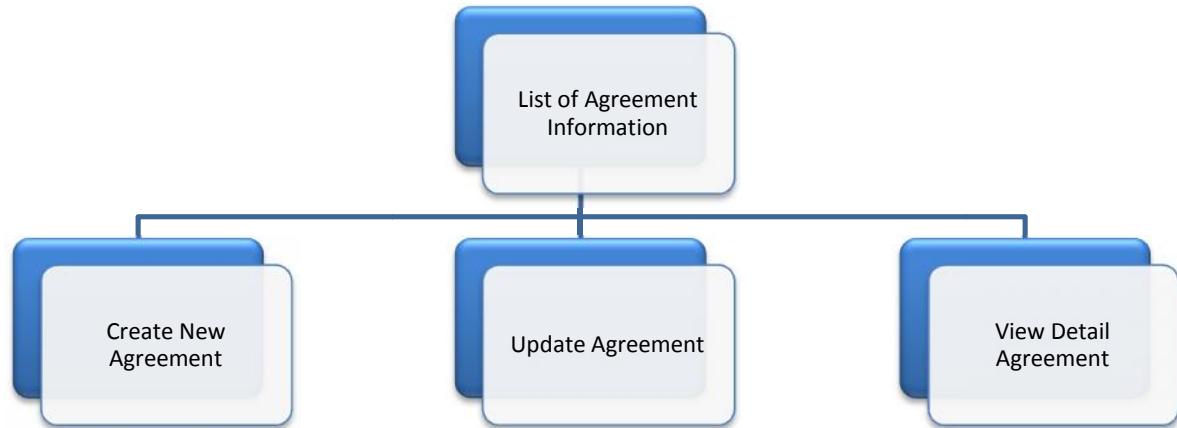


Figure 53 – Sitemap design of Operating lease agreement

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 auto-filled from another field.
- 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 [Carroserie] will be filled automatically by system
Engine Number	Engine Number	
Carroserie	Carroserie	
Accessories	Bumper Racing	

Value of [Accessories] will be filled automatically by system

Close **Add**

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.

Functional Specification: A.1 Marketing Module

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To entry a quotation data

Value of [BAST Date] and [Start Date Usage Unit] can be same

Will be filled automatically

To add new records

To open view detail and delete a records

Data paging information

To open paging the records

To save and navigate the quotation data

Police Number/Invoice Number	Engine Number	Carroserie/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 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.

Functional Specification: A.1 Marketing Module

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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

Functional Specification: A.1 Marketing Module			
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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
Agreement Information					
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.

Functional Specification: A.1 Marketing Module

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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
Payment Condition						
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	###,###,###.##	No	OPLAgreement.InterestOfPenalty
Maintenance Condition						
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

Functional Specification: A.1 Marketing Module

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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. BateryChangeMileage
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.

Functional Specification: A.1 Marketing Module

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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
Audit Rail						
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
Status Management						
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

Functional Specification: A.1 Marketing Module			
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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)
- (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"> • Who is using the website • What the user want to do • The user's goal • The steps the user takes to accomplish a particular task • How the website should respond to an action 	<ul style="list-style-type: none"> • Implementation-specific language • Details about the user interfaces or screens.

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

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

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

Functional Specification: A.1 Marketing Module

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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

Functional Specification: A.1 Marketing Module

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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

Functional Specification: A.1 Marketing Module

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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**

Functional Specification: A.1 Marketing Module

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[Total Installment] / [Lease Period Plan]

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