



OPERATING LEASE SUPPORT SYSTEM DEVELOPMENT

FOR



Functional Specification A.1 Marketing Module

Revision 3.0

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Functional Specification: A.1 Marketing Module

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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 module 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

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- a. Create new quotation
To create anew 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
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 anew 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 anew 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

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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 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. Marketing 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.

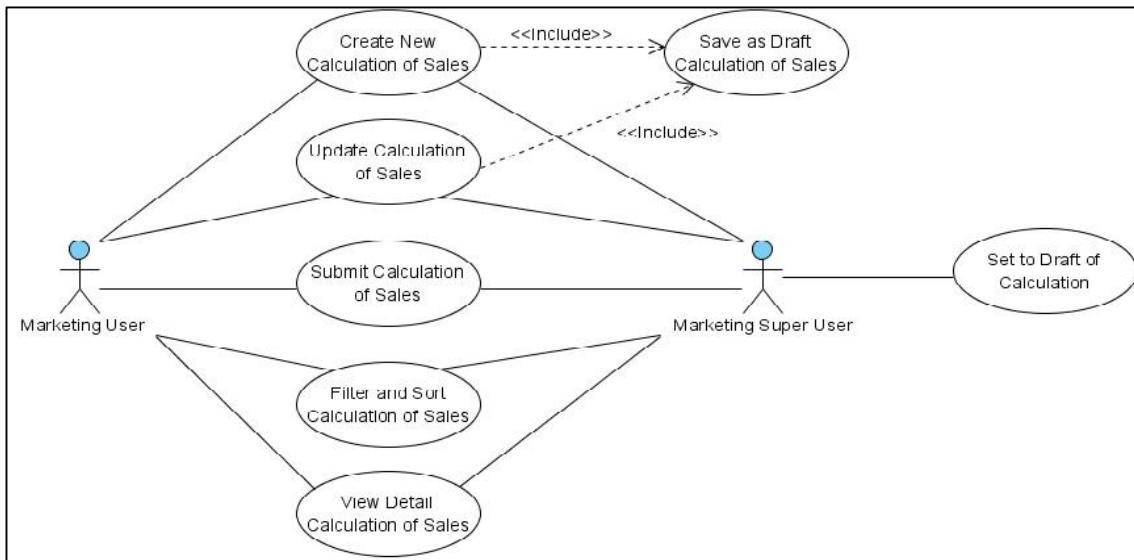


Figure 1 – Use case diagram of Calculation of Refinance

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).

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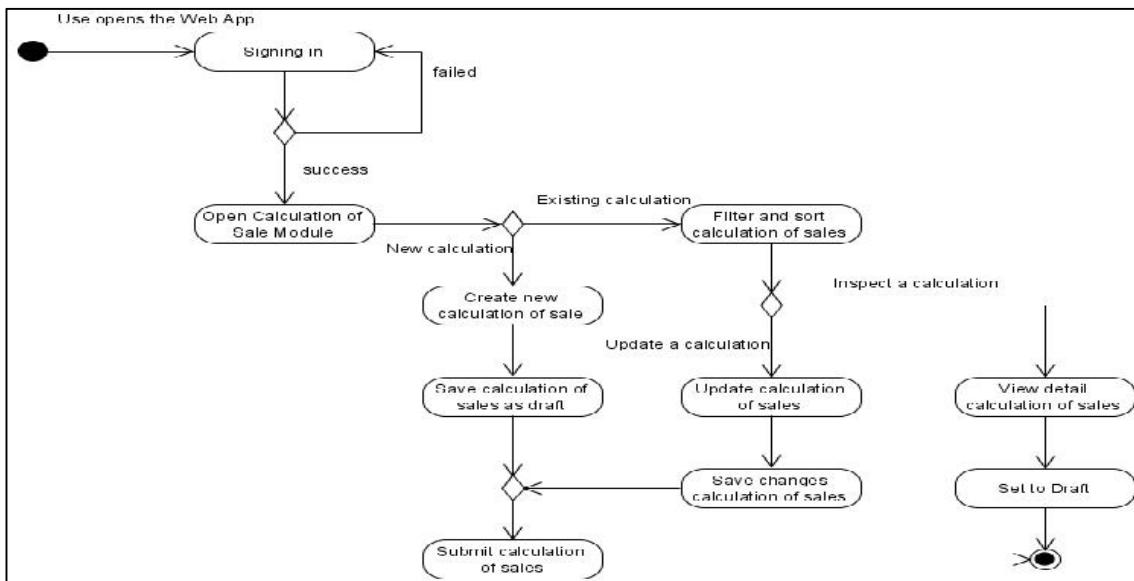


Figure 2 – Activity diagram of Calculation of Refinance

No.	Steps/ Operations	Actor/ People	Scenario
1	Signing in	Marketing user, Marketing superuser	<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 Refinancemodule	Marketing user, Marketing superuser	<ul style="list-style-type: none"> After login, actor can open calculation of Refinancemodule 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 superuser	<ul style="list-style-type: none"> If calculation screen opens, actor can click [create]button to create new records of calculation and after that createcalculation 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,	<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 draft.

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		Marketing super user	<ul style="list-style-type: none"> 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.	Updatecalculation records	Marketing user, Marketing super user	<ul style="list-style-type: none"> On the calculationof Refinancescreen actor can click [Edit] button to update the calculation record by editing data on the edit calculation screen. If there werecalculation still draft, <i>marketing user</i> can click [edit] button on the right side of the records on the list of Refinance calculation. If there werecalculationrecord 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 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 viewingcalculation record. There are2 conditions when calculation detail screen

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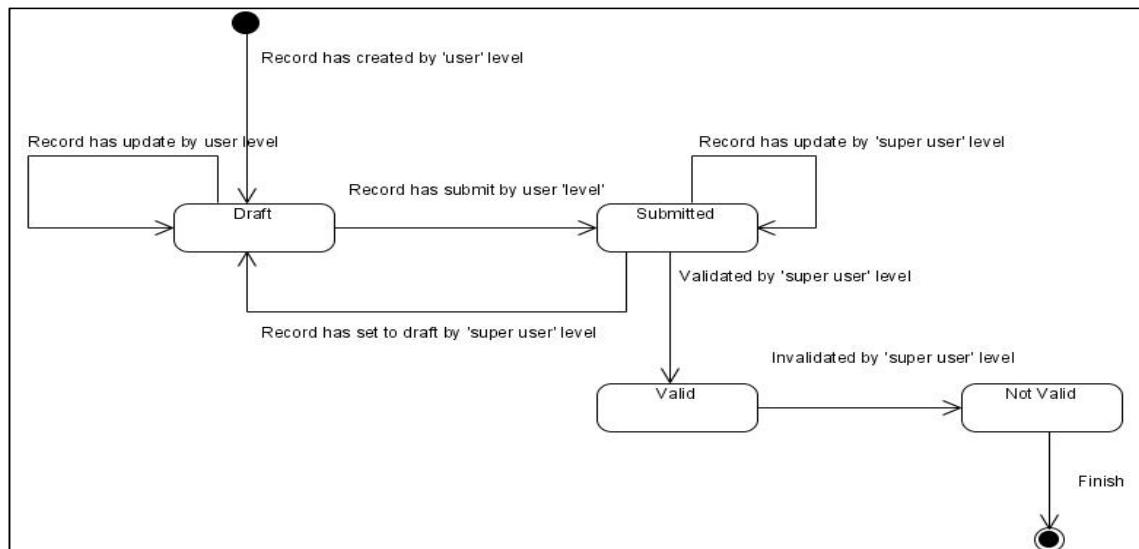
			<p>opens:</p> <ul style="list-style-type: none"> 1) If calculation status is still draft or already valid, [validate] button and [set to draft] button will be disappeared. 2) If calculation status was already submitted, [validate] button and [set to draft] button will be shown. • If done, actor can click back button to return to the list.
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.

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.



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Figure 3 – Status diagram of Calculation of Refinance

2.1.4 Sitemap design

Describes 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

2.1.5 Screen design

2.1.5.1 List of Refinance calculation

This screen is designed to display a list of Refinance calculations. On this screen, actors can filter and sort calculation records. Additionally, actors can open another screen to create new calculation records, update existing ones, and view detailed information about specific calculations.

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Calculation of sales

+Create New To create new calculation

List of Sales Calculation To filter a number of record filter

Show 10 entries Displaying calculation list

To open edit or view detail calculation

To filter calculation record

COS Number	Customer Name	Agreement Number ref.	Product	Quantity	Amount	Created By	Status	Action
COS04060901	PT. Maju Jaya	000.00074 /01/03/2012	Mitsubishi Triton GLX SC DA9365CE	1 Unit	155,106,364	John Smith	01/01/2014 submitted	
COS04060902	PT. Sejahtera Jaya	000.00074 /01/03/2012	Mitsubishi Triton GLX SC DA9365CE	1 Unit	155,106,364	John Smith	01/01/2014 submitted	

Showing 1 to 2 of 2 entries Data paging information To open paging of records First Previous 1 Next Last

Prototype - Final/dashboard.htm

Image1 – List of Refinance Calculation Screen

2.1.5.2 Create new calculation of Refinance

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

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The screenshot shows a form for creating a new calculation of refinance. The form is organized into several sections:

- Lease Contract Information:** Contains fields for Number (Number), Buyer / Customer (Buyer / Customer), Agreement Number Ref., Customer Name Ref., Maintenance Type, Monthly Mileage, Expected Mileage, Expiration Date (mm/dd/yyyy), Purchase Requirement After Lease, Residual Value, and example.
- Product Basic Information:** Contains fields for Brand Code (Brand Code), Brand Name (Brand Name), Product Name (Product Name), Model Year (Model Year), Schedule Date for Registration (mm/dd/yyyy), Displacement, Transmission (Transmission), Fuel Type (Fuel Type), Maximum Loading Capacity, Product Category (Product Category), Special OP (Special OP), Registration Date (mm/dd/yyyy), Usage (City), Location, and Number Plate Color (Black).
- Calculation:** Contains fields for Actual Residual Value (0.00), Unit Quantity (0.00), Comission (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), and Profits.
- Profits:** Contains fields for Item (Profits Total Amount - Actual Residual Value) and Profit Amount (0.00).

At the bottom left, there are 'Save as Draft' and 'Submit' buttons. At the bottom right, there is a button labeled 'To save or submit calculation data'.

Image2 – Screen of CreateNew Calculation of Refinance

2.1.5.3 Updatecalculation of Refinance

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

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Return back to list of sales calculation

Entry data form

Validated

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

Number: example | Buyer / Customer: example

Lease Contract Information

Agreement Number Ref.: example | Customer Name Ref.: example

Maintenance Type: example | Monthly Mileage: example | Expected Mileage: example

Expiration Date (mm/dd/yyyy): example | Purchase Requirement After Lease: example | Residual Value: example

Product Basic Information

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 | Location: example | Number Plate Color: Black

Calculation

Actual Residual Value	0.00
Unit Quantity	0.00
Comission	0.00
example	0.00
example	0.00
example	0.00
Total Amount	0.00

Profits

Item	Amount
Profits Total Amount - Actual Residual Value	0.00

Save Changes | Submit | To save or submit of data

Image3 – Screen of Update Calculation of Refinance

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.

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The screenshot displays a form titled 'View Detail Calculation'. At the top, there are navigation links: 'Back' (disabled), 'Return back to list of sales calculation' (highlighted with a red box), 'Detail calculation' (highlighted with a red box), 'Status of calculation' (highlighted with a red box), and a 'Submitted' button. Below these are creation and modification details: 'Created by' (Abdul Somad Zaini), 'Created Date' (01/01/2014), 'Last Modified by' (Abdul Somad Zaini), 'Last Modified Date' (01/01/2014). The main content is organized into sections: 'Lease Contract Information' (Agreement Number Ref., Customer Name Ref., Maintenance Type, Monthly Mileage, Expected Mileage, Expiration Date, Purchase Requirement After Lease, Residual Value), 'Product Basic Information' (Brand Code, Brand, Product Name, 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' (Actual Residual Value, Unit Quantity, Comission, Example Other Expense, Example Other Expense 1, Example Other Expense 2, Example Other Expense 3, Total Amount), and 'Profits' (Item, Profit Amount, Profits Total Amount - Actual Residual Value). A 'Validate' button at the bottom is highlighted with a red box, with the text 'To changes a status of calculation record' next to it.

Image4 – Screen of View Detail Calculation of Refinance

2.1.6 Screen features

Features	Description

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[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
Maximum Loading Capacity	Number	50	N/A	No
Product Category	Text	100	N/A	No

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development			
Author	Deny Prasetya		Date	13 Februari 2015
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Number Plate Color	Text	100	N/A	No
Usage	Text	100	N/A	No
Location	Text	100	N/A	No
Schedule Date for Registration	Decimal	18,3	mm-dd-yyyy	No
Registration Date	Date	N/A	mm-dd-yyyy	No
Calculation				
Actual Residual Value	Decimal	18,3	###,###,###.##	Yes
Unit Quantity	Decimal	18,3	###,###,###.##	Yes
Commission	Decimal	18,3	###,###,###.##	No
Other Expense 1	Decimal	N/A	###,###,###.##	No
Other Expense 2	Decimal	18,3	###,###,###.##	No
Other Expense 3	Decimal	18,3	###,###,###.##	No
Total Amount	Decimal	18,3	###,###,###.##	Yes
Profit Amount	Decimal	18,3	###,###,###.##	Yes
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		
Author	Deny Prasetia	Date	13 Februari 2015
Status	Baseline	Version	1.0
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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 5 – 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).

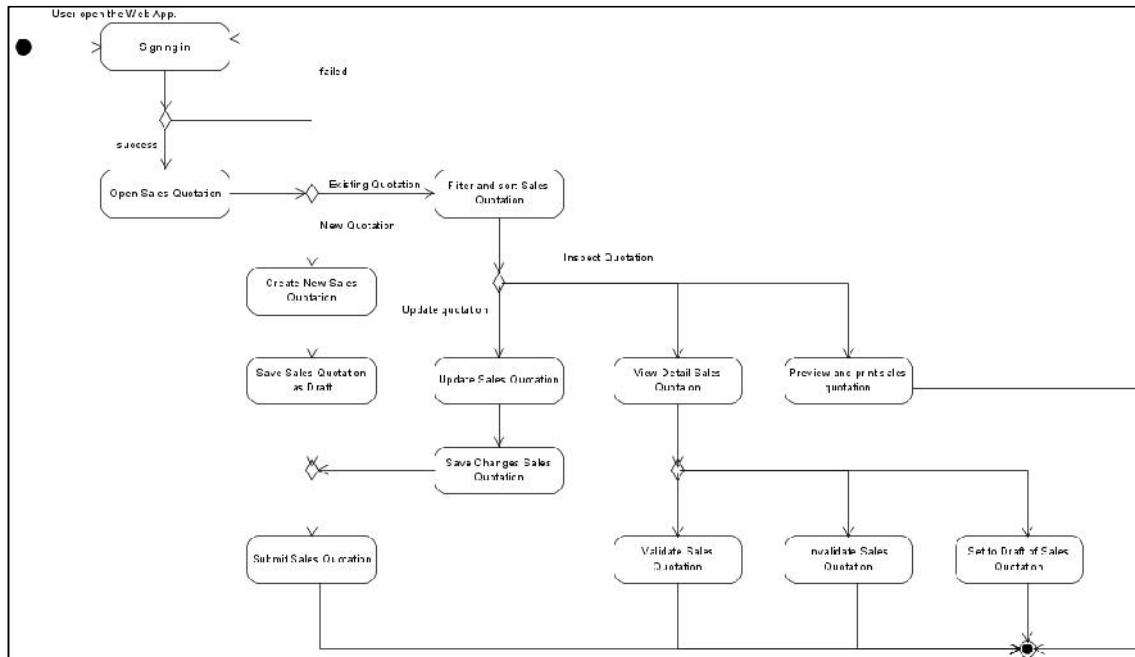


Figure 6 – Activity diagram of Refinance Quotation

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	13 Februari 2015
Status	Baseline	Version	1.0
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No.	Steps/ Operations	Actor/ People	Scenario
1	Signing in	Marketing user, Marketing superuser	<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 superuser	<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 superuser	<ul style="list-style-type: none"> If list of Refinancequotation 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 Refinancequotation.
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 quotationrecords 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

Project	Operating Lease Support System Development		
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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		
Author	Deny Prasetya	Date	13 Februari 2015
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11	Set to DraftRefinance 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.

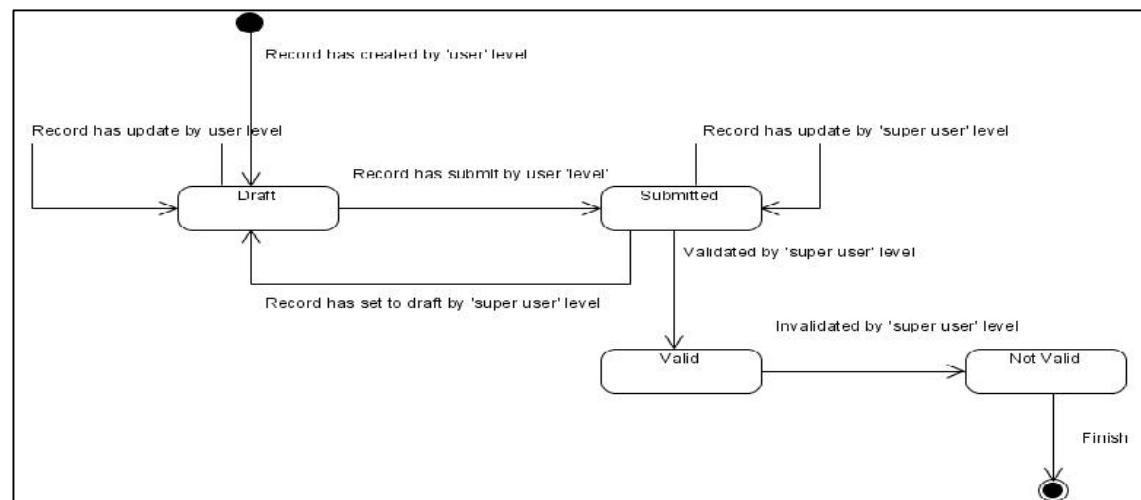


Figure 7 – Status diagram of Calculation of Refinance

Functional Specification: A.1 Marketing Module			
Project	Operating Lease Support System Development		
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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 8 – 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 list of Refinance Quotations. Several UI elements are highlighted with red boxes and associated with their functions:

- To create new sales quotation**: Points to the "+ Create" button.
- To filter sales quotation record**: Points to the "Search" input field.
- To filter a number of record filter**: Points to the "Show 10 entries" dropdown.
- Displaying list**: Points to the main table area showing the list of quotations.
- To open edit or view detail sales quotation**: Points to the "Edit" and "View" icons in the table header.
- Data paging information**: Points to the "Showing 1 to 5 of 56 entries" text and the "First" through "Last" navigation buttons at the bottom.
- To open paging the records**: Points to the "Next" and "Previous" navigation buttons at the bottom.

Number *	Buyer / Customer	Product Name	Expected Delivery	Delivery Place	Validity Month	Status	Action
A001	PT. Maju Sejahtera	Example Product	2014/01/01	Jakarta	January	submitted	
A002	PT. Maju Mundur	Example Product	2014/01/01	Jakarta	January	valid	
A003	PT. Maju Mundur	Example Product	2014/01/01	Jakarta	January	submitted	
A004	PT. Maju Mundur	Example Product	2014/01/01	Jakarta	January	valid	
A005	PT. Maju Mundur	Example Product	2014/01/01	Jakarta	January	submitted	
A006	PT. Maju Mundur	Example Product	2014/01/01	Jakarta	January	valid	

Image5 – List of RefinanceQuotation Screen

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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 user interface for creating a new Refinance quotation. The form is organized into several sections:

- Product Basic Information:** This 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).
- Quotation Information:** This section contains fields for Validity Month (Validity Month), Terms (Terms), Expected Delivery (dd/mm/yyyy) (Expected Delivery (dd/mm/yyyy)), Down Payment (Down Payment), Delivery Place (Delivery Place), and Remarks (Remarks).
- Action Buttons:** At the bottom left, there are two buttons: "Save as Draft" (blue background) and "Submit" (dark blue background). A red box highlights the "Submit" button, and a red arrow points from the text "To entry a calculation data" to the "Submit" button.
- Navigation and Status:** At the top left, there is a "Back" button and a link "Return back to list of sales calculation". At the top right, there is a link "To entry a calculation data".

Image6 – Screen of Create New Refinance Quotation

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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' form. At the top, there's a header with a 'Back' button, a 'Return back to list of sales quotation' link, and a 'Status of sales quotation' section with a 'Draft' button. Below the header, there are creation and modification details: 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 is divided into sections:

- Product Basic Information:** Contains fields for Number (Example), Buyer / Customer (Example), 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: Example), Location (Example), and Number Plate Color (dropdown: Black).
- Quotation Information:** Contains fields for Validity Month (Example), Terms (Example), Expected Delivery (dd/mm/yyyy) (Example), Down Payment (Example), Delivery Place (Example), and Remarks (Example).
- Action Buttons:** At the bottom left are 'Save Changes' and 'Submit' buttons. A red box highlights the 'Submit' button, and an arrow points from the label 'To save or submit of data' to it.

Image7 – Screen of Update Refinance Quotation

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2.2.5.4 View detail Refinance quotation

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

The screenshot displays a user interface for viewing a sales quotation. At the top, there are navigation links ('Back', 'Return back to list of sales quotation', 'Detail sales quotation', 'Status of sales quotation', and a 'submitted' button). Below this, there are sections for 'Product Basic Information' and 'Quotation Information'. Each section contains several input fields with placeholder text ('Example'). At the bottom, there is a 'Validate' button with a tooltip indicating it changes the status of the sales quotation record.

Section	Field	Description
Product Basic Information	Brand Code	Brand Name
	Example	Example
Quotation Information	Validity Month	Terms
	Example	Example
Product Basic Information	Model Year	Schedule Date for Registration (mm/dd/yyyy)
	Example	Example
Quotation Information	Transmission	Fuel Type
	Example	Example
Product Basic Information	Product Category	Special OP
	Example	Example
Quotation Information	Usage	Location
	Example	Example
Quotation Information	Down Payment	Delivery Place
	Example	Example

Image8 – Screen of View Detail Refinance Quotation

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	13 Februari 2015
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2.2.5.5 Preview and print 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.



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	05/06/2014	
		No	A019120
Validity: Within one month after the date.			
(1) Description of the Vehicle Information			
Manufacture / Name			
Grade		Year	
Model		Engine Number	
Transmission		Police Number	
Color		Odometer Reading (Km)	
Passanger		Payload	
Accessories and Option			
(2) Term		(3) Expected Delivery Date	
Exact Sales Amount			
Down Payment			
Payment			
(4) Delivery Place			
(5) Remarks			
<p>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.</p>			
PT.Dipo Star Finance <hr style="border: 0.5px solid black; margin-top: 5px;"/>		PT.Dipo Star Finance <hr style="border: 0.5px solid black; margin-top: 5px;"/>	

Image9 – Screen of RefinanceQuotation Report

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
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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
Schedule Date for Registration	Decimal	18,3	mm-dd-yyyy	No

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development			
Author	Deny Prasetya		Date	13 Februari 2015
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Registration Date	Date	N/A	mm-dd-yyyy	No
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 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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2.3 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.

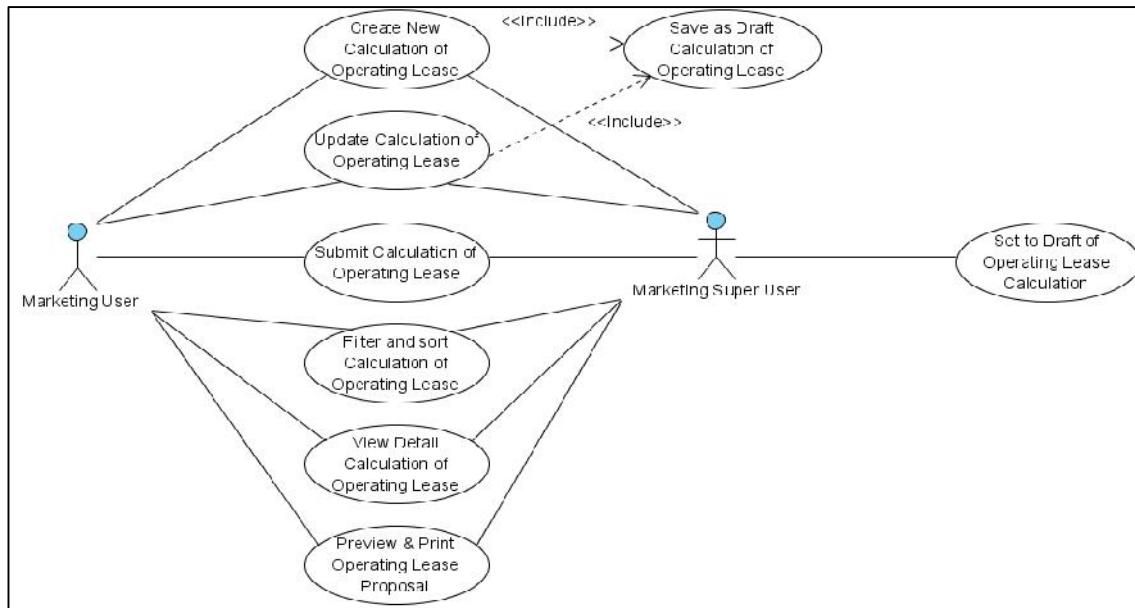


Figure 9 – Use case diagram of Calculation of Operating Lease

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).

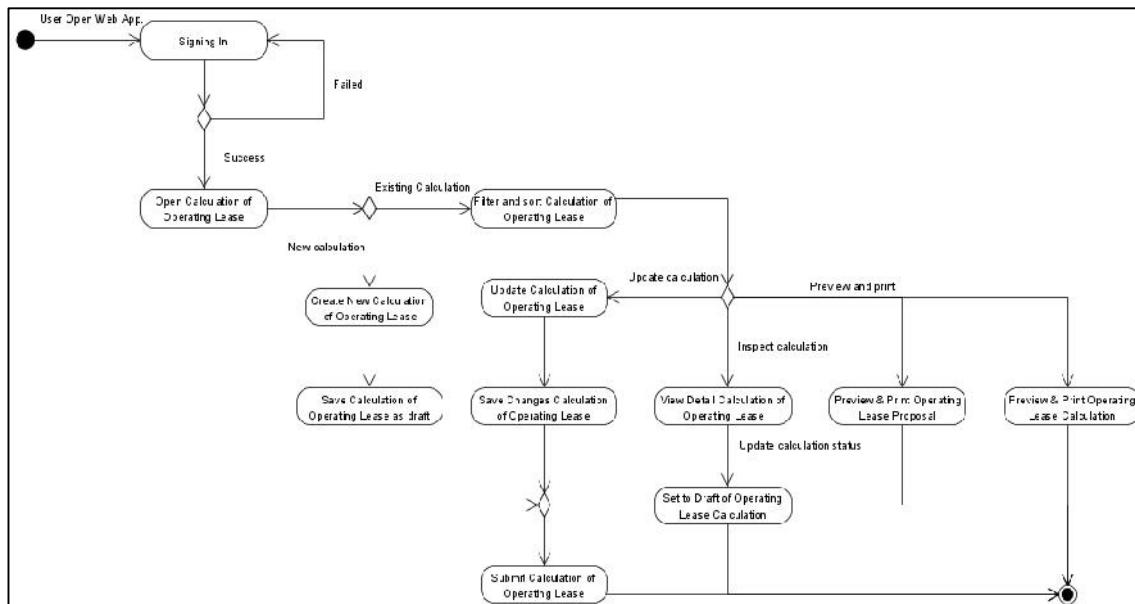


Figure 10 – Activity diagram of Calculation of Operating Lease

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	13 Februari 2015
Status	Baseline	Version	1.0
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No.	Steps/ Operations	Actor/ People	Scenario
1	Signing in	Marketing user, Marketing superuser	<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 superuser	<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 superuser	<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

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
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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 werecalculation 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"> If calculation status is still draftor 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 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.

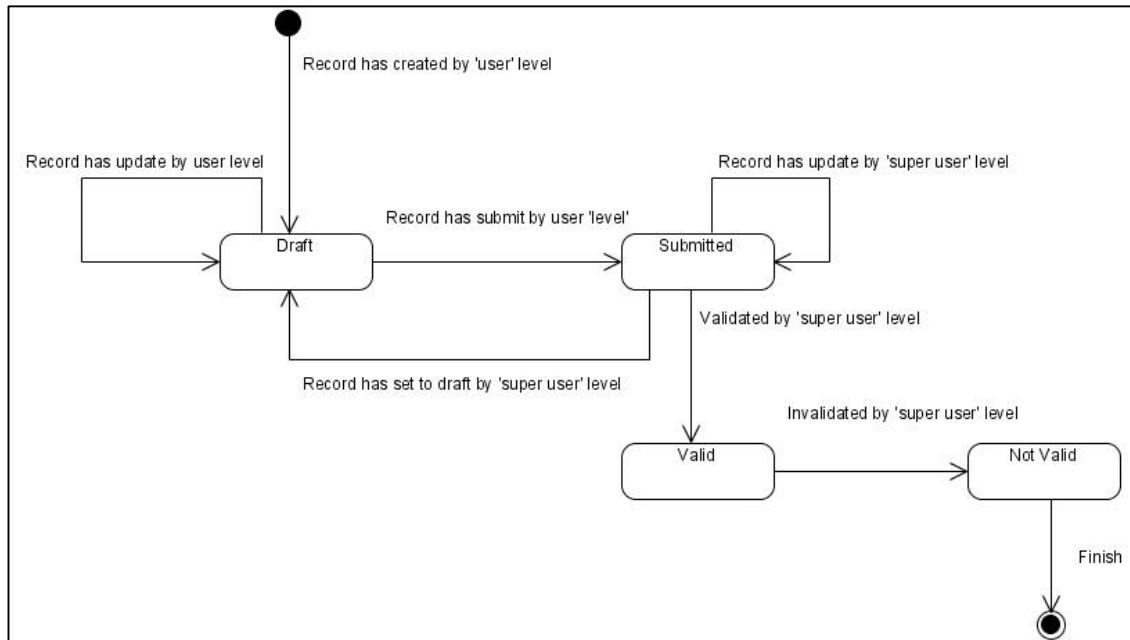


Figure 11 – Status diagram of Operating Lease Calculation

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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.

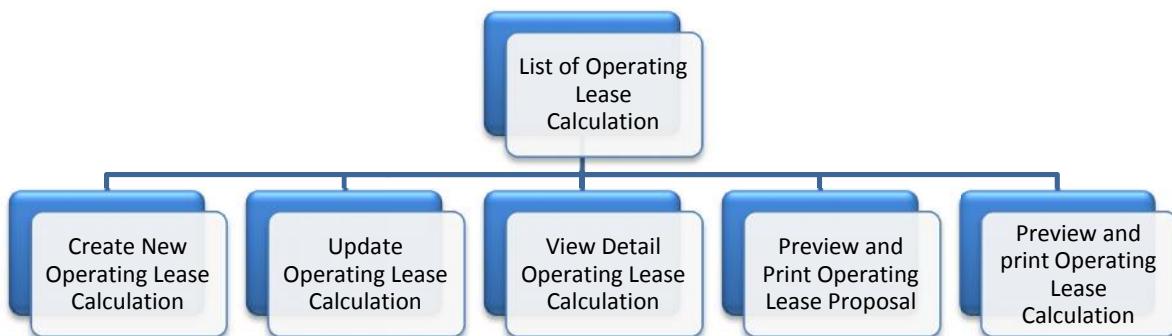


Figure 12 – Sitemap design of Operating Lease Calculation

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 for managing operating lease calculations. The interface includes:

- Header:** "Calculation of Operating Lease".
- Create New Record:** A button labeled "+Create" with a red callout "To create new records".
- Filtering and Sorting:** A section titled "List of Calculation Operating Lease" with a "Show 10 entries" dropdown and a "Search" input field. Red callouts indicate "To filter a number of record filter" and "To filter records".
- Table View:** A grid showing details for one record:

OPL Calculation Number	Lease Category	Product Brand Name	Maintenance Type	Is Insurance	Monthly Installment Fee	Interest Rate	Total Profit Amount	Status	Action
C05C4060901	Full Maintenance	PT. Maju Jaya	000.0007/4 Triton GLX SC	1 Unit DA9965CE	155,106,364	John Smith	John Smith	Submitted	
- Paging and Navigation:** A bottom section showing "Showing 1 to 1 of 1 entries" with a red callout "Data paging information", and a navigation bar with buttons for "First", "Previous", "Next", and "Last". Red callouts also point to "To open paging the records" and the navigation buttons.

Image10 – 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:

- Header:** Includes a 'Back' button, a link to 'Return back to list of operating lease calculation', and a 'Draft' status indicator.
- Step Navigation:** Shows steps 1 through 6.
- User Information:** Displays 'Created by' (Abdul Somad Zaini), 'Created Date' (01/01/2014), 'Last Modified By' (Abdul Somad Zaini), and 'Last Modified Date' (01/01/2014).
- OPL Calculation Number:** A field labeled 'OPL Calculation Number'.
- Basic Information (Product):** Contains fields for Product Registration Code, Product Type, Product Category; Product Brand Code, Product Brand Name, Product Model Code; Product Model Name, Product Model Type, Product Model Year (yyyy/mm); Transmission, Fuel Type, Displacement (cc); Usage, Number Plate Color, Monthly Mileage (Km), and Monthly Mileage.
- Basic Information (Lease):** Contains fields for Customer Name, Lease Category, Previous Agreement Number; Start Date Usage Unit Plan (mm/dd/yyyy), End Date Usage Unit Plan (mm/dd/yyyy), Lease Period Plan (Months); Maintenance Type, Insurance, Purchase Requirement After Lease; Carrosserie Type, Carrosserie, Accessories Type, Accessories.
- Action Buttons:** Includes 'Save as Draft' (highlighted with a red box), 'Next Step >', and a link to 'To save and navigate the calculation data'.

Image11 – Screen of Create New Operating Lease Calculation Screen (Step 1)

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Draft

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

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		
Cost Condition					
Product Price <input type="text"/> Rp Product Price	Dealer Discount <input type="text"/> Rp Dealer Discount	ATPM Discount <input type="text"/> Rp ATPM Discount	Product Price Total <input type="text"/> Rp Product Price Total		
Accessories Price <input type="text"/> Rp Accessories Price	Supplier Discount <input type="text"/> Rp Supplier Discount				Accessories Price Total <input type="text"/> Rp Accessories Price Total
Carrosserie Price <input type="text"/> Rp Carrosserie Price	Supplier Discount <input type="text"/> Rp Supplier Discount				Carrosserie Price Total <input type="text"/> Rp Carrosserie Price Total
Finance Condition					
Spread Effective (%) <input type="text"/> Spread Effective (%)	Borrowing Rate Flat (%) <input type="text"/> Borrowing Rate Flat	Prime Rate Effective (%) <input type="text"/> Prime Rate Effective	Prime Rate Flat (%) <input type="text"/> Prime Rate Flat (%)	Borrowing Rate Effective (%) <input type="text"/> Borrowing Rate Effective (%)	Spread Flat (%) <input type="text"/> Payment Estimation
Administration Fee <input type="text"/> Rp Administration Fee	Replacement Car Amount <input type="text"/> Rp Replacement Car Amc	Mobilizations Fee <input type="text"/> Rp Mobilizations Fee	Demobilizations Fee <input type="text"/> Rp Demobilizations Fee	Term of Payment (Days) <input type="text"/> Term of Payments	Payment Type <input type="text"/> In Arrear
Product					
DP Before BAST (%) <input type="text"/> Down Payment of Product Before BAST	DP Period to BAST (Days) <input type="text"/> Time Number of Down Payment of Product to BA	Payment Settlement before BAST (%) <input type="text"/> Payment Settlement of Product before BAST		Payment Settlement Period to BAST (Days) <input type="text"/> Payment Settlement Period to BAST (Days)	
Carrosserie					
DP Before BAST (%) <input type="text"/> DP Before BAST	DP Period to BAST (Days) <input type="text"/> DP Period to BAST (Day)	Payment Settlement Before BAST <input type="text"/> Payment Settlement Before BAST		Payment Settlement Period to BAST (Days) <input type="text"/> Payment Settlement Period to BAST (Days)	
Accessories					
DP Before BAST (%) <input type="text"/> DP Before BAST	DP Period to BAST (Days) <input type="text"/> DP Period to BAST (Days)	Payment Settlement Before BAST <input type="text"/> Payment Settlement Before BAST Accessories		Payment Settlement Period to BAST (Days) <input type="text"/> Payment Settlement Period to BAST (Days)	
Registration Fee					
Registration Value Rate (%) <input type="text"/> Rate of Registration Value	Registration Value Amount <input type="text"/> Rp Amount of Registration Value				
◀ Previous Step Save Changes Next Step ▶ To save and navigate the calculation data					

Image12 – Screen of Create New Operating Lease Calculation Screen (Step 2)

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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	Lease Period (Months)
Monthly Mileage	City	Lease Period (Months)

Maintenance Condition & Cost

Maintenance Type	Full Maintenance						
Periodic Maintenance	Km	Oil Exchange	Km	Exchange of Oil and Fats	Remarks	Rp	Amount
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

Rp	Total
----	-------

Previous Step Save Changes Next Step >

To save and navigate the calculation data

Image13 – Screen of Create New Operating Lease Calculation Screen (Step 3)

Functional Specification: A.1 Marketing Module

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[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)	03/01/2018	Lease Period Plan (Months)	36			
Insurance Company	Insurance Company	Insurance Agent	Insurance Agent	Coverage Period (Month + 1)	Coverage Period (Month + 1)	Insurance of Payment Cycle		
Class of Insurance	Class of Insurance	Commission Rate (%)	Commission Rate (%)	Region	Region 1	Seat Capacity		
Remarks Remarks								
Product								
Model Name	Model Name	Product Type	Product Type	Product Category	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				
Property Lost Liability (PPL)	Comprehensive	Basic Rate (%)	Rp	Gross Premium				
Personal Accident for Passenger (PAP)	Comprehensive	Basic Rate (%)	Rp	Gross Premium				
Personal Accident for Driver (PAD)	Comprehensive	Basic Rate (%)	Rp	Gross Premium				
Strike, Riots & Civil Commotion (SRCC)	Comprehensive	Basic Rate (%)	Rp	Gross Premium				
Terrorism & Sabotage (TS)	Comprehensive	Basic Rate (%)	Rp	Gross Premium				
Flood & Windstorm (FLD)	Comprehensive	Basic Rate (%)	Rp	Gross Premium				
Earthquake & Tsunami (EAQ)	Comprehensive	Basic Rate (%)	Rp	Gross Premium				
Authorized Workshop	Comprehensive	Basic Rate (%)	Rp	Gross Premium				
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				

Image14 – Screen of Create New Operating Lease Calculation Screen (Step 4)

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The screenshot displays the 'Create New Operating Lease Calculation' screen. At the top, there are navigation links: 'Back' (disabled), 'Return back to list of operating lease calculation', and 'To entry a calculation data'. Below these are tabs for 'Step 1' through 'Step 6'. The main area contains sections for 'Basic Information (Lease Fee)', 'Setting Monthly Installment', and 'Confirmation of Lease Cost'. Each section has several input fields for amounts in Indonesian Rupiah (Rp) or zero. At the bottom, there are buttons for 'Previous Step', 'Save Changes', and 'Submit'.

Section	Field	Value
Basic Information (Lease Fee)	Start Date Usage Unit Plan (mm/dd/yyyy)	02/01/2015
	End Date Usage Unit Plan (mm/dd/yyyy)	01/21/2019
BAST Maintenance Schedule (mm/dd/yyyy)	BAST Maintenance Schedule (mm/dd/yyyy)	01/01/2014
	First Lease Payment (Days)	0
Setting Monthly Installment	Ratio	0
	Borrowing Rate (%)	0
Confirmation of Lease Cost	Product Price	Rp 0
	Residual Value (-)	Rp 0
Registration Value Amount	Rp 0	0
	Maintenance Cost	Rp 0
Replacement Unit Cost	Rp 0	0
	Insurance Cost	Rp 0
Mediator Fee Cost	Rp 0	0
	Mobilization Cost	Rp 0
Demobilization Cost	Rp 0	0
	Interest Cost	Rp 0
Interest Cost for Term of Payment	Rp 0	0
	Interest Cost Payment Before BAST	Rp 0
Total Cost	Rp 0	0
	Monthly Instalment Amount	Rp 0
Profit Result:		
Total Profit	Rp 0	0

Image15 – Screen of Create New Operating Lease Calculation Screen (Step 5)

Functional Specification: A.1 Marketing Module

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2.3.5.3 Update calculation of operating lease

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

The screenshot shows a web-based application for managing operating lease calculations. The interface is divided into several sections:

- Header:** Includes a 'Back' button, a link to "Return back to list of operating lease calculation", and a "To entry a calculation data" button.
- Step Navigation:** Shows steps 1 through 6, with Step 1 currently selected.
- User Information:** Displays "Created by" (Abdul Somad Zaini), "Created Date" (01/01/2014), "Last Modified By" (Abdul Somad Zaini), and "Last Modified Date" (01/01/2014).
- Product Information:** Details for a vehicle:
 - Product Registration Code: VEHIC021/V-001/FN527MS/201501
 - Product Type: Vehicle
 - Product Category: COMMERCIAL TRUCK
 - Product Brand Name: MITSUBISHI
 - Product Model Code: FN527MS
 - Product Model Year (yyyy/mm): 01/2013
 - Product Model Type: FSO
 - Fuel Type: SOLAR / DIESEL
 - Displacement (CC): 7.545
 - Number Plate Color: Yellow
 - Monthly Mileage (Km):
- Lease Information:** Details for a lease:
 - Customer Name: PT TAWU INTI BUMI
 - Lease Category: New
 - Previous Agreement Number:
 - Start Date Usage Unit Plan (mm/dd/yyyy): 03/01/2015
 - End Date Usage Unit Plan (mm/dd/yyyy): 02/28/2019
 - Lease Period Plan (Months): 48
 - Maintenance Type: Customer Service Desk
 - Insurance: Yes
 - Purchase Requirement After Lease: Yes
 - Carrosserie Type: Dump Truck
 - Carrosserie: Rp 124,000,000
 - Accessories Type: Accessories
 - Accessories: Rp
- Action Buttons:** At the bottom left are "Save Changes" and "Next Step >". A red box highlights the "Next Step >" button with the label "To save and navigate the calculation data".

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Image16 – Screen of Update Operating Lease Calculation screen (Step 1)

The screenshot shows the 'Update Operating Lease Calculation' screen. 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 navigation bar with tabs: Step 1, Step 2, Step 3, Step 4, Step 5, and Step 6. The Step 1 tab is selected. Underneath the tabs 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 'Cost Condition' section follows, containing tables for Product Price, Accessories Price, and Carrosserie Price, each with Dealer Discount, Supplier Discount, and ATM Discount columns. Total amounts are shown for each category. Below this is a 'Residual Value Amount' section with fields for Rp 274,200,000, Residual Value (%), Standard Residual Value (%), and Standard Residual Value Amount. The next section is 'DSF Finance Condition', which includes fields for Payment Type (In Arrear), Borrowing Rate Effective (%), Spread Effective (%), Prime Rate Effective (%), Borrowing Rate Flat (%), Prime Rate Flat (%), and Spread Flat (%). It also includes fields for Administration Fee (Rp 2,000,000), Replacement Unit Cost (monthly), Mobilizations Fee, Demobilizations Fee, and Term of Payment (Days) (14). The 'Product' section contains fields for DP Before BAST (%), DP Period to BAST (Days), Payment Settlement before BAST (%), and Payment Settlement Period to BAST (Days). The 'Carrosserie' section is similar. The 'Accessories' section includes fields for DP Before BAST (%), DP Period to BAST (Days), Payment Settlement Before BAST (%), and Payment Settlement Period to BAST (Days). The 'Registration Fee' section includes fields for Registration Value Rate (%) (0.1400) and Registration Value Amount (Rp 57,052,800). At the bottom are buttons for 'Previous Step', 'Save Changes' (highlighted with a red box), and 'Next Step'.

Return back to list of operating lease calculation

To entry a calculation data

← Back

Draft

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

Cost Condition

Product Price	Dealer Discount	ATM Discount	Product Price Total
Rp 790,000,000	Rp 65,000,000	Rp ATM Discount	Rp 725,000,000

Accessories Price	Supplier Discount	Accessories Price Total
Rp Accessories Price	Rp Supplier Discount	Rp 0

Carrosserie Price	Supplier Discount	Carrosserie Price Total
Rp 124,000,000	Rp Supplier Discount	Rp 124,000,000

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

DSF Finance Condition

Payment Type	In Arrear										
Borrowing Rate Effective (%)	11.100000	Spread Effective (%)	5.600000	Prime Rate Effective (%)	16.150000	Borrowing Rate Flat (%)	6.107951	Prime Rate Flat (%)	9.10711	Spread Flat (%)	2.635172
Administration Fee	Rp 2,000,000	Replacement Unit Cost (monthly)	Rp Replacement Car A	Mobilizations Fee	Rp Mobilizations Fee	Demobilizations Fee	Rp Demobilizations Fee	Term of Payment (Days)	14		

Product

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

Carrosserie

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

Accessories

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

Registration Fee

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

◀ Previous Step Save Changes Next Step ➡

To save and navigate the calculation data

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Image17 – Screen of Update Operating Lease Calculation screen (Step 2)

The screenshot shows the 'Update Operating Lease Calculation' screen. At the top, there are navigation links: 'Back' (with a red box around it), 'Return back to list of operating lease calculation', and 'To entry a calculation data'. Below these are tabs for 'Step 1' through 'Step 6'. The main area is divided into sections: 'Maintenance Basic Information' (Brand Code, Brand Name, Model Name, Product Type, Product Category, Model Year), 'Maintenance Condition & Cost' (Maintenance Type dropdown set to 'Full Maintenance', with various maintenance items listed with checkboxes and values like 5000 Km, 2000 Km, Hello, Rp 6000, example, Rp 8000, 6000 Km, Rp 9000, 6000 Km, Rp 9100, 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), and a summary section at the bottom showing 'Total Maintenance Cost' (Rp 2000000). Navigation buttons at the bottom include 'Previous Step', 'Save Changes' (highlighted with a red box), and 'Next Step'.

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Image18 – Screen of Update Operating Lease Calculation screen (Step 3)

The screenshot shows the 'Update Operating Lease Calculation' screen. 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 navigation bar with tabs: Step 1, Step 2, Step 3, Step 4, Step 5, and Step 6. The Step 3 tab is active.

The main area contains several sections:

- Insurance Basic Information:** Fields include Start Date of Insurance (08/01/2014), End Date of Insurance (04/01/2019), Lease Period Plan (Months) (18), Insurance Company (Trakfin Maritim), Insurance Agent (Ridwan), Coverage Period (Month + 1) (40), Class of Insurance (All Risk), Commission Rate (%) (25.00000), Region (Region 2), Insurance of Payment Cycle (Yearly), and Seal Capacity (J).
- Product:** Fields include Model Name, Product Type, Product Category, and Model Year (yyyy/mm).
- Insurance Condition & Cost:** A table listing various insurance types with their basic premiums, rates, and total amounts:

Insurance Type	Basic Premium	Rate	Total Amount
Basic Premium	5000.000	5	Rp 25.000.000
Third Party Liability (TPL)	5000.000	5	Rp 25.000.000
Property Lost Liability (PPL)	5000.000	5	Rp 25.000.000
Personal Accident for Passenger (PAP)	5000.000	5	Rp 25.000.000
Personal Accident for Driver (PAD)	5000.000	5	Rp 25.000.000
Strike, Riots & Civil Commotion (SRCC)	5000.000	5	Rp 25.000.000
Terrorism & Sabotage (TS)	5000.000	5	Rp 25.000.000
Flood & Windstorm (FLD)	5000.000	5	Rp 25.000.000
Earthquake & Tsunami (EAQ)	5000.000	5	Rp 25.000.000
Authorized Workshop	5000.000	5	Rp 25.000.000
- Total Premiums and Fees:** Fields for Total Gross Premium (Rp 25.000.000), Commission Amount (Rp 25.000.000), Mediator Fee Amount (Rp 25.000.000), and Net Premium (Rp 25.000.000).
- Action Buttons:** At the bottom are buttons for 'Previous Step', 'Save Changes' (highlighted in blue), 'Next Step >', and 'To save and navigate the calculation data'.

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	13 Februari 2015
Status	Baseline	Version	1.0
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Image19 – Screen of Update Operating Lease Calculation screen (Step 4)

The screenshot shows a web-based application for calculating operating lease costs. The interface is divided into several sections:

- Header:** Shows the project name "Operating Lease Support System Development", author "Deny Prasetia", date "13 Februari 2015", and version "1.0".
- Navigation:** Includes a "Back" button, a link to "Return back to list of operating lease calculation", and a "To entry a calculation data" link.
- Step Progress:** Shows the current step as Step 5 of 6.
- User Information:** Displays the user "Abdul Somad Zaini" and the creation date "01/01/2014".
- Basic Information (Lease Fee):** Contains fields for Start Date (03/01/2015), End Date (02/02/2019), Lease Period Plan (Months) (29), Basic Insurance Income (0.000000), Admin Fee Amount (2,000,000), Interest Income (0), BAST Handover Schedule (mm/dd/yyyy) (RST Handover Schedule (mm/dd/yyyy)), Security Deposit Payment (No), Security Deposit Amount (Rp 0), First Lease Payment (Days) (0), Total Unit Quantity Lease (2), and Special Case (Remarks).
- Setting Monthly Installment:** Shows a ratio of 1.200000, Borrowing Rate (%) of 11.160000, Spread of Interest Rate (%) of 5.000000, and Internal Interest Rate (%) of 16.160000.
- Confirmation of Lease Cost:** A large table listing various cost components:

Product Price	Rp 815,000,000	2	Rp 1,098,000,000
Residual Value (-)	Rp 274,200,000	2	Rp 548,400,000
Registration Value Amount	Rp 57,052,800	2	Rp 114,105,600
Maintenance Cost	Rp 24,000,000	2	Rp 48,000,000
Replacement Unit Cost	Rp 0	2	Rp 0
Insurance Cost	Rp 52,900,209	2	Rp 105,000,578
Insurance Discount	Rp 13,275,372	2	Rp 26,450,144
Mediator Fee Cost	Rp 13,220,972	2	Rp 26,401,111
Mobilization Cost	Rp 0	2	Rp 0
Demobilization Cost	Rp 0	2	Rp 0
Interest Cost	Rp 207,425,304	2	Rp 414,052,000
Interest Cost for Term of Payment	Rp 2,111,142	2	Rp 4,222,284
Interest Cost Payment Before BAST	Rp 2,705,362	2	Rp 5,415,124
Total Cost	Rp 920,773,797	2	Rp 1,841,807,574
Monthly Installment Amount	Rp 21,810,000	2	Rp 43,620,000
Profit Result:			
Total Profit	Rp 1,046,587,000	2	Rp 2,093,787,000
- Action Buttons:** Includes "Previous Step", "Save Changes" (highlighted in blue), "Submit" (highlighted in purple), and a "To save and navigate the calculation data" link.

Functional Specification: A.1 Marketing Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	13 Februari 2015
Status	Baseline	Version	1.0
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Image20 – 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 header with a 'Back' button, a 'Return back to list of operating lease calculation' link, and a 'Draft' indicator. Below the header is a navigation bar with six steps: Step 1 to Step 6. Underneath the navigation bar, there are sections for basic information about the product and lease, each with several fields. At the bottom, there are two buttons: 'Save as Draft' and 'Next Step >'. A large red box highlights the entire main content area, which includes the product and lease details. Another red box highlights the 'Next Step >' button at the bottom.

Created by	Abdul Somad Zaini	Created Date	01/01/2014	Last Modified By	Abdul Somad Zaini	Last Modified Date	01/01/2014
OPL Calculation Number 00025/OCN/01/02/2015							
Basic Information (Product)							
Product Registration Code	VEH/00021/V-001/PNE227MS/201301	Product Type	Vehicle	Product Category	COMMERCIAL TRUCK		
Product Brand Code	V-001	Product Brand Name	mitsubishi	Product Model Code	FN327MS		
Product Model Name	FUSO TRUCK E2 FN327MS	Product Model Type	FSO	Product Model Year (yyyy/mm)	2013/01		
Transmission	M8S2 X5	Fuel Type	SOLAR / DIESEL	Displacement (CC)	7.545		
Usage		Number Plate Color	Yellow	Monthly Mileage (Km)	0		
City							
Basic Information (Lease)							
Customer Name	H0001	Lease Category	New	Previous Agreement Number	-		
Start Date Usage Unit Plan (mm/dd/yyyy)	03/01/2015	End Date Usage Unit Plan (mm/dd/yyyy)	02/28/2019	Lease Period Plan (Months)	48		
Maintenance Type	Customer Service Desk	Insurance	Yes	Purchase Requirement After Lease	Yes		
Carroserie Type	Dump Truck	Carroserie	Rp	124.000.000			
Accessories Type	-	Accessories	Rp	0			

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	13 Februari 2015
Status	Baseline	Version	1.0
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Image21 – 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 'Return back to list of operating lease calculation' link, and a 'Draft' status indicator. Below the header is a navigation bar with six steps labeled Step 1 through Step 6. The main content area is divided into several sections: 'Cost Condition', 'Finance Condition', 'Product', 'Carroserie', 'Accessories', and 'Registration Fee'. Each section contains tables with various financial parameters and their values. At the bottom of the page, there are navigation buttons for 'Previous Step', 'Save Changes', and 'Next Step', along with a link to 'To navigate the calculation data'.

Cost Condition			
Product Price Rp. 10.000.000	Dealer Discount Rp. 100.000	ATPM Discount Rp. 100.000	Product Price Total Rp. 100.000
Accessories Price Rp. 20.000.000	Supplier Discount Rp. 100.000		Accessories Price Total Rp. 100.000
Carrosserie Price Rp. 30.000.000	Supplier Discount Rp. 100.000		Carrosserie Price Total Rp. 100.000

Residual Value Amount Rp. 100.000	Residual Value (%) Rp. 100.000	Standard Residual Value (%) 80%	Standard Residual Value Amount Rp. 100.000
--------------------------------------	-----------------------------------	------------------------------------	-----------------------------------------------

Finance Condition					
Spread Effective (%) 70%	Borrowing Rate Flat (%) 70%	Prime Rate Effective (%) 70%	Prime Rate Flat (%) 70%	Borrowing Rate Effective (%) 70%	Spread Flat (%) 70%
Administration Fee Rp 70.000	Replacement Car Amount Rp 70.000	Mobilizations Fee Rp 70.000	Demobilizations Fee Rp 70.000	Term of Payment (Days) 3	Payment Type Cash

Product			
DP Before BAST (%) 80%	DP Period to BAST (Days) 80 Days	Payment Settlement before BAST (%) 80%	Payment Settlement Period to BAST (Days) 80 Days

Carroserie			
DP Before BAST (%) 80%	DP Period to BAST (Day) 8 Days	Payment Settlement Before BAST Rp 400.000	Payment Settlement Period to BAST (Days) 5 Days

Accessories			
DP Before BAST (%) 5%	DP Period to BAST (Days) 58 Days	Payment Settlement Before BAST 59.000	Payment Settlement Period to BAST (Days) 59 Days

Registration Fee		
Registration Value Rate (%) 0.14	Registration Value Amount Rp	57.052.800

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	13 Februari 2015
Status	Baseline	Version	1.0
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Image22 – Screen of View Detail Operating Lease Calculation (Step 2)

The screenshot shows a software application window titled "View Detail Operating Lease Calculation".

Header: Includes a "Back" button, a link to "Return back to list of operating lease calculation", and a "Draft" status indicator.

Breadcrumb Trail: Shows the current step: Step 3 of 6.

Maintenance Basic Information: Displays fields for Brand Code, Brand Name, Model Name, Product Type, Product Category, and Lease Period (Months).

Maintenance Condition & Cost: A table listing various maintenance items with their descriptions, remarks, and costs. The table includes rows for Periodic Maintenance (Oil Exchange, Exchange of Oil and Fats), Irregular Maintenance (Battery, Tire), Maintenance of Special OP Parts, CSD, Maintenance of Others (1, 2, 3), and a total row for "Total Maintenance Cost" (Rp. 40.000.000).

Footer: Contains buttons for "Previous Step", "Save Changes", and "Next Step". A red box highlights the "Save Changes" button, which is highlighted in blue, and the "Next Step" button. Another red box highlights the "To navigate the calculation data" text next to the footer buttons.

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	13 Februari 2015
Status	Baseline	Version	1.0
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Image23 – Screen of View Detail Operating Lease Calculation (Step 3)

Return back to list of operating lease calculation

A detailcalculation data

To navigate the calculation data

Save Changes

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
Insurance Basic Information					Last Modified Date
Start Date Usage Unit Plan (mm/dd/yyyy)	03/01/2015	End Date Usage Unit Plan (mm/dd/yyyy)	02/28/2019	Lease Period Plan (Months)	48
Insurance Company	Tokic Marine	Insurance Agent	Ridwan	Coverage Period (Month + 1)	49
Class of Insurance	All Risk	Commission Rate (%)	25.00	Region	Region 2
Remarks	-				
Product					
Model Name	Model Name	Product Type	Product Type	Product Category	Product Category
Model Year (yyyy/mm)	Model Year (yyyy/mm)				
Insurance Condition & Cost					
Basic Premium	849000000.00	1.33	Rp	52,900,289	
Third Party Liability (TPL)	50000000.00	1.13	Rp	2,297,774	
Property Lost Liability (PPL)	0	0	Rp	0	
Personal Accident for Passenger (PAP)	20000000.00	0.10	Rp	245,096	
Personal Accident for Driver (PAD)	20000000.00	0.50	Rp	408,493	
Strike, Riots & Civil Commotion (SRCC)	849000000.00	0.05	Rp	1,403,060	
Terrorism & Sabotage (TS)	849000000.00	0.05	Rp	1,403,060	
Flood & Windstorm (FLD)	849000000.00	0.10	Rp	2,806,119	
Earthquake & Tsunami (EAQ)	849000000.00	0.10	Rp	2,806,119	
Authorized Workshop	849000000.00	0.15	Rp	4,209,179	
Total Gross Premium	Rp:	52,900,289			
Commission Amount	Rp:	13,225,072			
Mediator Fee Amount	Rp:	13,225,072			
Net Premium	Rp:	30,475,217			

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	13 Februari 2015
Status	Baseline	Version	1.0
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Image24 – 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 'Back', 'Step 1', 'Step 2', 'Step 3', 'Step 4', 'Step 5', 'Step 6', 'Created by', 'Created Date', 'Last Modified By', and 'Last Modified Date'. A 'Draft' button is also present.

Basic Information (Lease Fee):

Start Date Usage Unit Plan (mm/dd/yyyy)	End Date Usage Unit Plan (mm/dd/yyyy)	Lease Period Plan (Months)
03/01/2015	05/28/2019	48
Rate Insurance Income	Admin Fee Amount	Interest Income
0.00	2,000,000	0
BAST Handover Schedule (mm/dd/yyyy)	Security Deposit Payment	Security Deposit Amount
	No	0
First Lease Payment (Days)	Total Unit Quantity Lease	Special Case (Remarks)
0	2	0

Setting Monthly installment:

Bonus	Borrowing Rate (%)	Spread of Interest Rate (%)	Internal Interest Rate (%)
1.20	11.16	5.00	15.16

Confirmation of Lease Cost:

Product Price	Rp	349,000,000	2	Rp	1,698,000,000
Residual Value (-)	Rp	274,200,000	2	Rp	548,400,000
Registration Value Amount	Rp	57,052,000	2	Rp	114,105,600
Maintenance Cost	Rp	24,000,000	2	Rp	48,000,000
Replacement Unit Cost	Rp	0	2	Rp	0
Insurance Cost	Rp	52,900,299	2	Rp	105,800,598
Insurance Discount	Rp	13,225,072	2	Rp	26,450,144
Mediator Fee Cost	Rp	13,225,072	2	Rp	26,450,144
Mobilization Cost	Rp	0	2	Rp	0
Demobilization Cost	Rp	0	2	Rp	0
Interest Cost	Rp	207,426,004	2	Rp	414,852,008
Interest Cost for Term of Payment	Rp	2,016,672	2	Rp	4,033,281
Interest Cost Payment Before BAST	Rp	2,708,067	2	Rp	5,416,134
Total Cost	Rp	920,900,797	2	Rp	1,841,807,594

Profit Result:

Monthly Installment Amount	Rp	21,810,000	2	Rp	43,620,000
Total Profit	Rp	1,046,890,000	2	Rp	2,093,780,000

Buttons at the bottom:

- < Previous Step
- Save Changes
- Submit
- To navigate the calculation data

Functional Specification: A.1 Marketing Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	13 Februari 2015
Status	Baseline	Version	1.0
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Image25 – Screen of View Detail Operating Lease Calculation (Step 5)

2.3.5.5 Preview and print operating lease calculation

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.

Operating Lease Calculation Attachment						
GPI Calculation Number: 00027/OCN/01/02/2015						
(1) Product Price						
A) Product Data		B) Product Carroserie		C) Accessories Data		
Product Name	MITSUBISHI	Carroserie Type		Accessories Type		
Product Model	COLT T120SS E-2 PICK UP FLAT DECK 1.5					
Product Price	Rp 0	Carroserie Price	Rp 0	Accessories Price	Rp 0	
Dealer Discount	Rp 0	Supplier Discount (Carroserie)	Rp 0	Supplier Discount (Accessories)	Rp 0	
ATM Discount	Rp 0					
Total Product Price	Rp 0	Total Carroserie Price	Rp 0	Total Accessories Price	Rp 0	
(2) Financial Condition						
A) Borrowing Rate(%)	B) Spread(%)	0.00	C) Prime Rate(%)			
(3) Term and Condition for Transaction						
Monthly Installment Amount				Rp 0		
Installment Amount(Period)				Rp 0		
(4) Income Projection						
Total Income	Rp 0					
Total Installment	Rp 0					
Adm Fee Income	Rp 0					
Insurance Income	Rp 0					
Overhead Fee						
Product Price	Rp 0					
Residual Value (-)	Rp 0					
Registration Value Amount	Rp 0					
Total Maintenance Amount	Rp 0					
Replacement Unit Cost	Rp 0					
Insurance Cost	Rp 0					
Mediator Fee	Rp 0					
Mobilization Cost	Rp 0					
Demobilization Cost	Rp 0					
Interest Cost	Rp 0					
Interest Cost Payment Before BAST	Rp 0					
Total Overhead Cost	Rp 0					
Income After Overhead Cost	Rp 0					

Image26 – Screen of Operating Lease Calculation Report

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	13 Februari 2015
Status	Baseline	Version	1.0
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2.3.5.6 Preview and print operating lease proposal

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.

To :	-		
From :	NBD Dept. - Operating Lease Section		
Date :	01/01/0001		
No :	-		
Subject :			
Dear Sir/Madam, I would like to receive approval to submit the operating lease quotation for :			
(1) Customer Data			
Name	fsadfsadf	New or Repeat Customer	-
Business Economy Sector	Construction	Address	asfdasfa
Telephone & Fax	sadfsadfsdf		
(2) PIC Data			
Name	-	Telephone Number	-
Position	-	Email Address	-
Deadline of Quotation Submission (mm/dd/yyyy)	01/01/0001		
Product Name	MITSUBISHI		
Model Name	COLT T12055 E-2 PICK UP FLAT DECK 1.5		
Product Price	Rp. 0		
Purpose Of Use	-		
Total Unit Quantity	0		
Non or COP Program	No		
Residual Value	Rp. 0		
DSF Standard Residual Value	Rp. 0		
Maintenance Type	Full Maintenance		
Lease Period (month)	48		
Monthly Installment	Rp. 0		
Profit Amount	Rp. 0		
Installment Ratio	0		
CPL Calculation Ref:	00027//OCN/01/02/2015		
Thank you for your consideration and approval for this request.			
Proposed By:	Acknowledged By:		
* * * * *			
Approved By:			
* * * * *			

Image30 – Screen of Preview and Print Operating Lease Calculation

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	13 Februari 2015
Status	Baseline	Version	1.0
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2.3.6 Screen features

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

2.3.7 Data structure

Field	Data Type	Data Length	Format	Mandatory
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
Lease Basic Information				
Customer Code	Text	50	N/A	Yes
Customer Name	Text	200	N/A	Yes
Start Period Plan	Date	N/A	mm-dd-yyyy	Yes
End Period Plan	Date	N/A	mm-dd-yyyy	Yes
Lease Period Plan	Number	N/A	N/A	Yes
Lease Category	Text	100	N/A	Yes
Previous Contract Number	Text	50	N/A	Yes
Usage	Text	100	N/A	Yes
Maintenance Type	Text	100	N/A	Yes

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development			
Author	Deny Prasetia		Date	13 Februari 2015
Status	Baseline		Version	1.0
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Monthly Mileage	Number	N/A	N/A	Yes
Number Plate Color	Text	100	N/A	Yes
STNK Renewal Fee	Yes/ No	N/A	N/A	Yes
Purchase Requirement After Lease	Yes/ No	N/A	N/A	Yes
Insurance	Yes/ No	N/A	N/A	Yes
KEUR Renewal	Yes/ No	N/A	N/A	Yes
BAST Handover Schedule	Date	N/A	mm-yyyy	No
Security Deposit Payment	Decimal	18,3	###,###,###.##	No
Security Deposit Amount	Decimal	18,3	###,###,###.##	No
First Lease Payment	Decimal	18,3	###,###,###.##	No
Total Unit Quantity Lease	Decimal	18,3	###,###,###.##	No
Special Case (remarks)	Text	200	N/A	No
Cost Condition				
Product Price	Decimal	18,3	###,###,###.##	No
Dealer Discount	Decimal	18,3	###,###,###.##	No
ATPM Discount	Decimal	18,3	###,###,###.##	No
Accessories Price	Decimal	18,3	###,###,###.##	No
Accessories Supplier Discount	Decimal	18,3	###,###,###.##	No
Carrosserie Price	Decimal	18,3	###,###,###.##	No
Carrosserie Supplier Discount	Decimal	18,3	###,###,###.##	No
Product Price Total	Decimal	18,3	###,###,###.##	No
Accessories Price Total	Decimal	18,3	###,###,###.##	No
Carrosserie Price Total	Decimal	18,3	###,###,###.##	No
Residual Value Amount	Decimal	18,3	###,###,###.##	No
Residual Rate Value	Decimal	18,3	###,###,###.##	No
Standard Residual Rate Value	Decimal	18,3	###,###,###.##	No
Standard Residual Value Amount	Decimal	18,3	###,###,###.##	No
Basic Finance Condition				
Spread Effective Percent	Decimal	18,3	###,###,###.##	No
Borrowing Rate Flat Percent	Decimal	18,3	###,###,###.##	No
Prime Rate Effective	Decimal	18,3	###,###,###.##	No
Prime Rate Flat	Decimal	18,3	###,###,###.##	No
Borrowing Rate Effective	Decimal	18,3	###,###,###.##	No
Spread Flat	Decimal	18,3	###,###,###.##	No
Administration Fee	Decimal	18,3	###,###,###.##	No
Replacement Car Amount	Decimal	18,3	###,###,###.##	No
Mobilizations Fee Amount	Decimal	18,3	###,###,###.##	No
Demobilizations Fee Amount	Decimal	18,3	###,###,###.##	No
Term of Payment	Decimal	18,3	###,###,###.##	No
Payment Type	Text	100	N/A	No
Product Finance Condition				

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development			
Author	Deny Prasetia	Date	13 Februari 2015	
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DP Before BAST Percent	Decimal	18,3	###,###,###.##	No
DP Period to BAST	Number	N/A	N/A	No
Payment Settlement Before BAST	Decimal	18,3	###,###,###.##	No
Payment Settlement Period to BAST	Number	N/A	N/A	No
Carrosserie Finance Condition				
DP Before BAST	Decimal	18,3	###,###,###.##	No
DP Period to BAST	Number	N/A	N/A	No
Payment Settlement Before BAST	Decimal	18,3	###,###,###.##	No
Payment Settlement Period to BAST	Number	N/A	N/A	No
Accessories Finance Condition				
DP Before BAST	Decimal	18,3	###,###,###.##	No
DP Period to BAST	Number	N/A	N/A	No
Payment Settlement Before BAST	Decimal	18,3	###,###,###.##	No
Payment Settlement Period to BAST	Number	N/A	N/A	No
Registration Fee Condition				
STNK Renewal Fee Amount	Decimal	18,3	###,###,###.##	No
KIR Renewal Fee Amount	Decimal	18,3	###,###,###.##	No
Rate of STNK Renewal	Decimal	18,3	###,###,###.##	No
Rate of KIR Renewal Fee Amount	Decimal	18,3	###,###,###.##	No
Maintenance Condition & Cost				
Maintenance Type	Text	100	N/A	No
Periodic Maintenance	Number	N/A	N/A	No
Oil Exchange	Number	N/A	N/A	No
Exchange Oil & Fats	Number	N/A	N/A	No
Regular Maintenance Amount	Decimal	18,3	###,###,###.##	No
Irregular Maintenance Remarks	Text	100	N/A	No
Irregular Maintenance Amount	Decimal	18,3	###,###,###.##	No
Battery Maintenance	Text	100	N/A	No
Battery Maintenance Amount	Decimal	18,3	###,###,###.##	No
Tire Maintenance	Text	100	N/A	No
Tire Maintenance Amount	Decimal	18,3	###,###,###.##	No
Special Parts Maintenance	Text	100	N/A	No
Special Parts Maintenance Amount	Decimal	18,3	###,###,###.##	No
CSD Remarks	Text	100	N/A	No
CSD Amount	Decimal	18,3	###,###,###.##	No
Other Maintenance Remarks	Text	100	N/A	No
Other Maintenance Amount	Decimal	18,3	###,###,###.##	No
Total Maintenance Cost	Decimal	18,3	###,###,###.##	No
Insurance Basic Information				
Start Period Plan	Text	100	N/A	No
End Period Plan	Decimal	18,3	###,###,###.##	No

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development			
Author	Deny Prasetia	Date	13 Februari 2015	
Status	Baseline	Version	1.0	
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Lease Period Plan	Decimal	18,3	####,###,##.##	No
Insurance Company	Text	100	N/A	No
Insurance Agent	Text	100	N/A	No
Coverage Period Month +1	Number	N/A	N/A	No
Mediator Fee Rate	Decimal	18,3	####,###,##.##	No
Insurance Class	Text	100	N/A	No
Commission Rate	Decimal	18,3	####,###,##.##	No
Insurance Payment Cycle	Text	100	N/A	No
Region	Text	100	N/A	No
Insurance Condition Cost				
Basic Premium Rate	Decimal	18,3	####,###,##.##	No
Basic Premium Amount	Decimal	18,3	####,###,##.##	No
Third Party Liability (TPL) Rate	Decimal	18,3	####,###,##.##	No
Third Party Liability (TPL) Amount	Decimal	18,3	####,###,##.##	No
Property Lost Liability (PLL) Rate	Decimal	18,3	####,###,##.##	No
Property Lost Liability (PLL) Amount	Decimal	18,3	####,###,##.##	No
Personal Accident for Passenger (PAP) Rate	Decimal	18,3	####,###,##.##	No
Personal Accident for Passenger (PAP) Amount	Decimal	18,3	####,###,##.##	No
Personal Accident for Driver (PAD) Rate	Decimal	18,3	####,###,##.##	No
Personal Accident for Driver (PAD) Amount	Decimal	18,3	####,###,##.##	No
Strike, Riots, Civil Commotions (SRCC) Rate	Decimal	18,3	####,###,##.##	No
Strike, Riots, Civil Commotions (SRCC) Amount	Decimal	18,3	####,###,##.##	No
Terrorism & Sabotage (TS) Rate	Decimal	18,3	####,###,##.##	No
Terrorism & Sabotage (TS) Amount	Decimal	18,3	####,###,##.##	No
Flood & Windstorm (FLD/W) Rate	Decimal	18,3	####,###,##.##	No
Flood & Windstorm (FLD/W) Amount	Decimal	18,3	####,###,##.##	No
Earthquake & Tsunami (EAQ/T) Rate	Decimal	18,3	####,###,##.##	No
Earthquake & Tsunami (EAQ/T) Amount	Decimal	18,3	####,###,##.##	No
Authorized Workshop Rate	Decimal	18,3	####,###,##.##	No
Authorized Workshop Amount	Decimal	18,3	####,###,##.##	No
Insurance Total Gross Premium	Decimal	18,3	####,###,##.##	No
Insurance Net Premium	Decimal	18,3	####,###,##.##	No
Commission Amount	Decimal	18,3	####,###,##.##	No
Mediator Fee Amount	Decimal	18,3	####,###,##.##	No
Monthly Installment Setting				
Monthly Installment Rate	Decimal	18,3	####,###,##.##	No
Borrowing Rate	Decimal	18,3	####,###,##.##	No
Spread Interest Rate	Decimal	18,3	####,###,##.##	No
Internal Interest Rate	Decimal	18,3	####,###,##.##	No
Confirmation of Lease Cost				
Product Price Amount	Decimal	18,3	####,###,##.##	No

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Residual Value Amount	Decimal	18,3	####,###,##.##	No
STNK Renewal Fee Amount	Decimal	18,3	####,###,##.##	No
Maintenance Cost Amount	Decimal	18,3	####,###,##.##	No
Replacement Cost Amount	Decimal	18,3	####,###,##.##	No
Insurance Fee Amount	Decimal	18,3	####,###,##.##	No
Mediator Fee Amount	Decimal	18,3	####,###,##.##	No
Mobilization Fee Amount	Decimal	18,3	####,###,##.##	No
Demobilization Fee Amount	Decimal	18,3	####,###,##.##	No
Interest Amount	Decimal	18,3	####,###,##.##	No
Interest of Term of Payment Amount	Decimal	18,3	####,###,##.##	No
Interest of Payment Before BAST Amount	Decimal	18,3	####,###,##.##	No
Total Cost	Decimal	18,3	####,###,##.##	No
Monthly Installment Standard (DSF)	Decimal	18,3	####,###,##.##	No
Profit Result				
Interest Rate	Decimal	18,3	####,###,##.##	No
Spread Interest Rate	Decimal	18,3	####,###,##.##	No
Profit Amount	Decimal	18,3	####,###,##.##	No
Insurance Commission Amount	Decimal	18,3	####,###,##.##	No
Total Profit Amount	Decimal	18,3	####,###,##.##	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

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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.

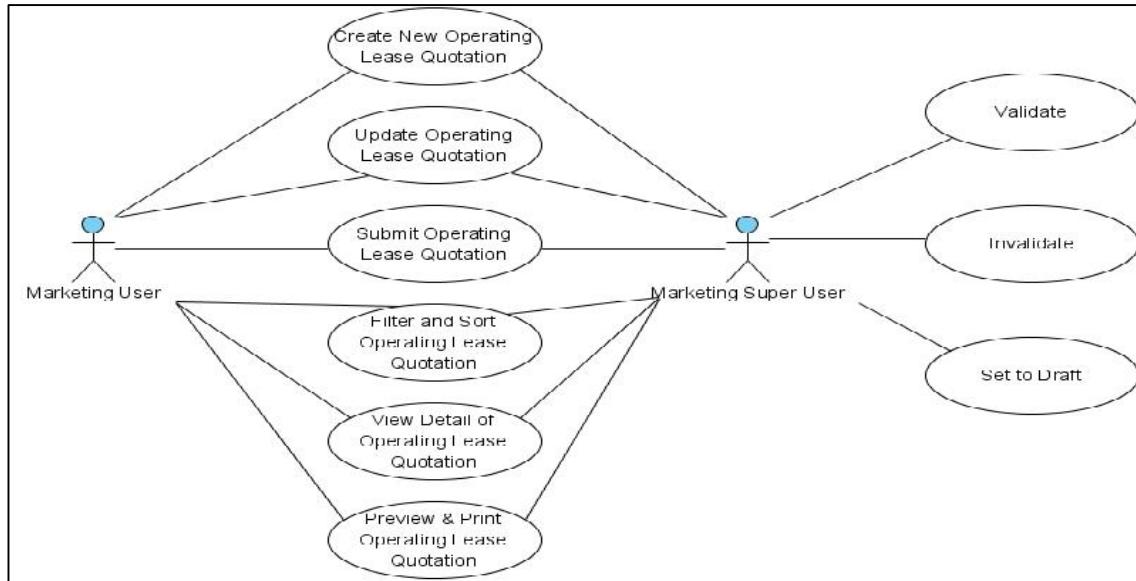


Figure 13 – Use case diagram of Operating Lease Quotation

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).

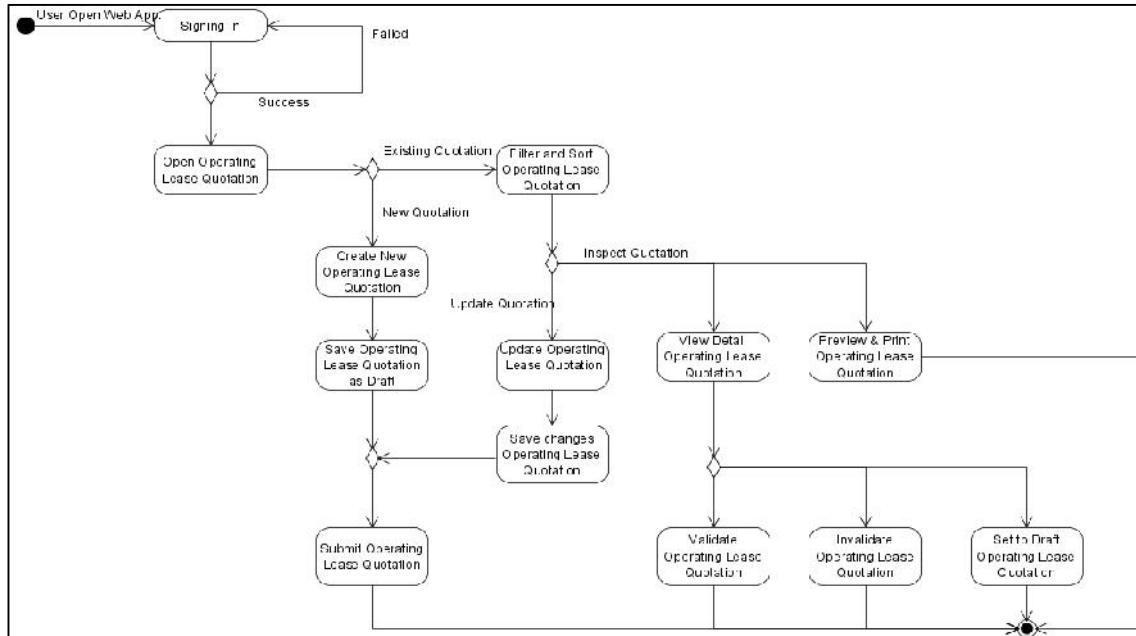


Figure 14 – Activity diagram of Operating Lease Quotation

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No.	Steps/ Operations	Actor/ People	Scenario
1	Signing in	Marketing user, Marketing superuser	<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 operating lease quotation module	Marketing user, Marketing superuser	<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 superuser	<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 draft. 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 submitted (or not draft). 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 draft, <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 submit and the status is valid, <i>marketing user</i> cannot click [edit] button to

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			<p>open edit operating lease quotation screen.</p> <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 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 anoperating 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 are2 conditions when view detail screen opens: <ol style="list-style-type: none"> 3) If the quotation status is still draftor already valid, [Validate] button and [set to draft] button will be disappeared. 4) 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.

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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 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 [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.

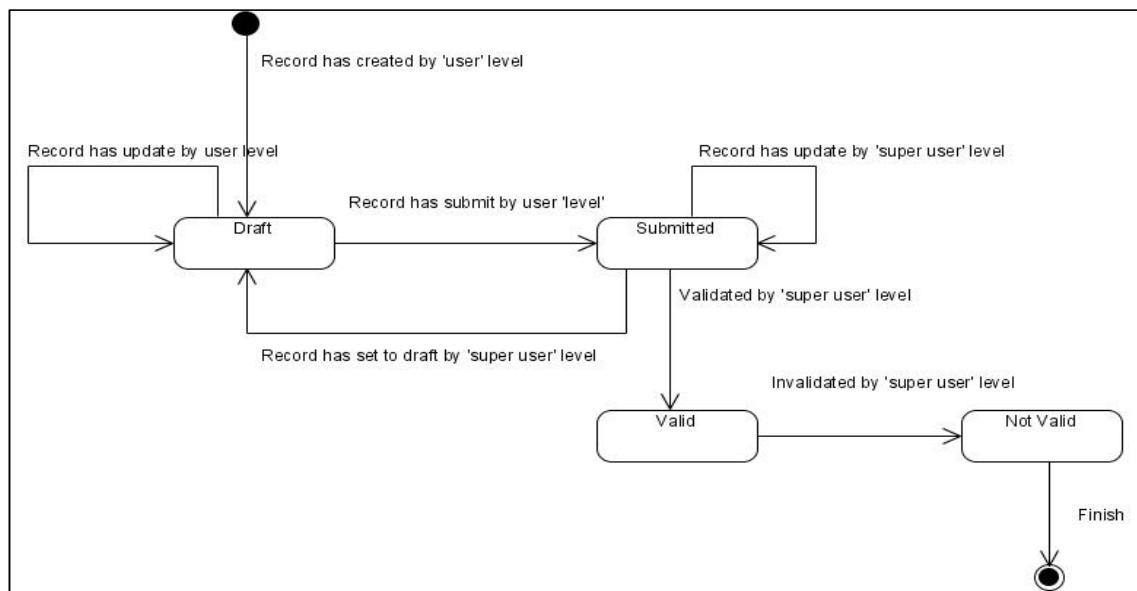


Figure 15 – Status diagram of Operating Lease Quotation

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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 16 – 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 a user interface for managing 'Operating Lease Quotation'. At the top left is a button labeled '+Create' with a red callout box pointing to it. Below the header, there's a table with two columns: 'Registration Code' and 'Maintenance Type'. Underneath the table, there are two rows of data, each containing fields like 'Detail Example', '04/05/89', '2', 'Example Classification', 'Example item', '50000', and status indicators ('valid' and 'submitted'). To the right of the table is a column titled 'Action' with icons for edit, delete, and print. At the bottom of the screen, there are several red callout boxes: one pointing to the '+Create' button, another to the table header, one to the search bar, one to the 'Show 10 entries' dropdown, one to the data rows, one to the 'First' and 'Last' navigation buttons, and one to the 'Data paging information' at the bottom.

Image31 – List of Operating Lease Quotation Screen

2.4.5.2 Create new operating lease quotation

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

PT. Berlian Sistem Informasi, 2015

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

The screenshot shows a form for creating a new operating lease quotation. The form is organized into several sections:

- Header:** Contains buttons for 'Back' (with a red box), 'Return back to list of operating lease quotation' (with a red box), and 'To entry a quotation data' (with a red box).
- Basic Information (Product) Section:** This section is highlighted with a large red box. It 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, Transmission, Fuel Type, and Displacement.
- Quotation Information Section:** This section is highlighted with a red box. It contains fields for Monthly Rents, Down Payment, Pre-Paid Month Rent, Tax Amount, Expected Delivery Date, Delivery Place, Additional Items, and Remarks.
- Footer:** Contains two buttons: 'Save as Draft' (blue) and 'Submit' (dark blue). A red box highlights the area around these buttons, and another red box highlights the text 'To save and navigate the quotation data' located below them.

Image32 – 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 center, there are two red boxes: one labeled 'Return back to list of operating lease quotation' and another labeled 'To entry a quotation data'. A green 'Valid' button is located at the top right. The header contains fields for 'Created by' (Abdul Somad Zaini), 'Created Date' (01/01/2014), 'Last Modified By' (Abdul Somad Zaini), and 'Last Modified Date' (01/01/2014). Below the header are several input fields grouped 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), 'Valid Until (mm/dd/yyyy)' (with 'Example' placeholder). The next section, 'Basic Information (Product)', contains six pairs of input fields: 'Product Registration Code' (with 'Example' placeholder), 'Product Type' (with 'Example' placeholder), 'Product Category' (with 'Example' placeholder); 'Product Brand Code' (with 'Example' placeholder), 'Product Brand Name' (with 'Example' placeholder), 'Product Model Code' (with 'Example' placeholder); 'Product Model Name' (with 'Example' placeholder), 'Product Model Type' (with 'Example' placeholder), 'Product Model Year (yyyy/mm)' (with 'Example' placeholder); 'Transmission' (with 'Example' placeholder), 'Fuel Type' (with 'Example' placeholder), 'Displacement (CC)' (with 'Example' placeholder). The 'Quotation Information' section includes three pairs of input fields: 'Monthly Rents' (with 'Rp Example' placeholder), 'Down Payment' (with 'Rp Example' placeholder), 'Pre-Paid Month Rent' (with 'Rp Example' placeholder); 'Tax Amount' (with 'Rp Example' placeholder), 'Expected Delivery Date (mm/dd/yyyy)' (with 'Example' placeholder), 'Delivery Place' (with 'Example' placeholder); and 'Additional Items' (with 'Example' placeholder). The 'Remarks' section has a single input field with 'Example' placeholder. 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'.

Image33 – Screen of Update Operating Lease Quotation Screen

2.4.5.4 View detail operating lease quotation

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

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

The screenshot displays a form for viewing and managing operating lease quotations. 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 'OPL Calculation Number', 'OPL Proposal Number', 'Customer Code', 'Customer Name', 'OPL Quotation Number', 'OPL Quotation Date (mm/dd/yyyy)', 'Customer Code', 'Customer Name', 'Start Period Plan (mm/dd/yyyy)', 'End Period Plan (mm/dd/yyyy)', 'Lease Period Plan (Months)', and 'Valid Until (mm/dd/yyyy)'.
- Quotation Information:** This section includes pairs of labels and input fields such as 'Product Registration Code', 'Product Type', 'Product Category', 'Product Registration Code', 'Product Type', 'Product Category', 'Product Brand Code', 'Product Brand Name', 'Product Model Code', 'Product Brand Code', 'Product Brand Name', 'Product Model Code', 'Product Model Name', 'Product Model Type', 'Product Model Year (yyyy/mm)', 'Product Model Name', 'Product Model Type', 'Product Model Year (yyyy/mm)', 'Transmission', 'Fuel Type', 'Displacement (CC)', 'Transmission', 'Fuel Type', 'Displacement (CC)'.
- Action Buttons:** At the bottom left are 'Save as Draft' and 'Submit' buttons. A red box highlights the 'Submit' button, with a callout pointing to it labeled 'To save and navigate the calculation data'.

Image34 – Screen of View Detail Operating Lease Quotation

2.4.5.5 Preview and print 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 the 'Operating Lease Quotation' form from PT. Dipo Star Finance. The form is divided into several sections:

- Header:** Logo of Dipo Star Finance (Solsai Kredit Girosafit), Address: SENTRAL SENAYAN 2, 3RD FLOOR, JL. ASIA AFRIKA No. 8, SENAYAN, JAKARTA, Tel: (021) 57954100, Fax: (021) 5795 4075.
- Quotation Details:** Car Lease Quotation To: _____ Date: 05/06/2014, No: A019120.
- Vehicle Description:** (1) Description of the Leased Property (Vehicle). Fields include Manufacturer / Name, Grade, Model Code, Transmission, Color, Accessories and Option, Displacement, Engine, Passengers, Payload, Type Karoseri, Residual Value, and New / Used.
- Term and Payment:** (2) Term, (3) Expected Delivery Date. Fields include (4) Monthly Kilometer, (5) Monthly Rent, Down Payment, Pre-paid Months Rent, Payment, and (6) Delivery Place.
- Lease Agreement:** (7) Type of Lease Agreement. Fields include Finance Items (Cost of Vehicle, Accessories and Options, Registration Charges, Annual Tax, Compulsory Third Party Insurance) and Additional Items (Spare Car for inspection over 24 hours except accident, Spare Car for repairing in case of accident, Roadside Assistance, Emergency Telephone Services).
- Maintenance Items:** Fields include Schedule Check, Parts Change, Oil Change, Battery Changes, and Tire Changes.
- Comprehensive Motor Insurance:** (8) Comprehensive Motor Insurance. Fields include Third Party Liability (Bodily Injury or Death of Person), Third Party Liability (Property Damage), Personal Accident (Death) - Driver 1 Person, Personal Accident (Death) - Passenger, Medical Expense, Bail Bond, and Automobile Sum Insured (Damage on the Vehicle by collision, fire and theft).
- Remarks:** (9) Remarks. A note states: "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."
- Signatures:** PT.Dipo Star Finance and PT.Dipo Star Finance are signed at the bottom of the form.

Image35 – Screen of Preview and Print Operating Lease Quotation Screen

2.4.6 Screen features

Features	Description
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[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
QuotationIdentity				
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
Start Period Plan	Date	N/A	mm-dd-yyyy	No
End Period Plan	Date	N/A	mm-dd-yyyy	No

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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 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

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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.

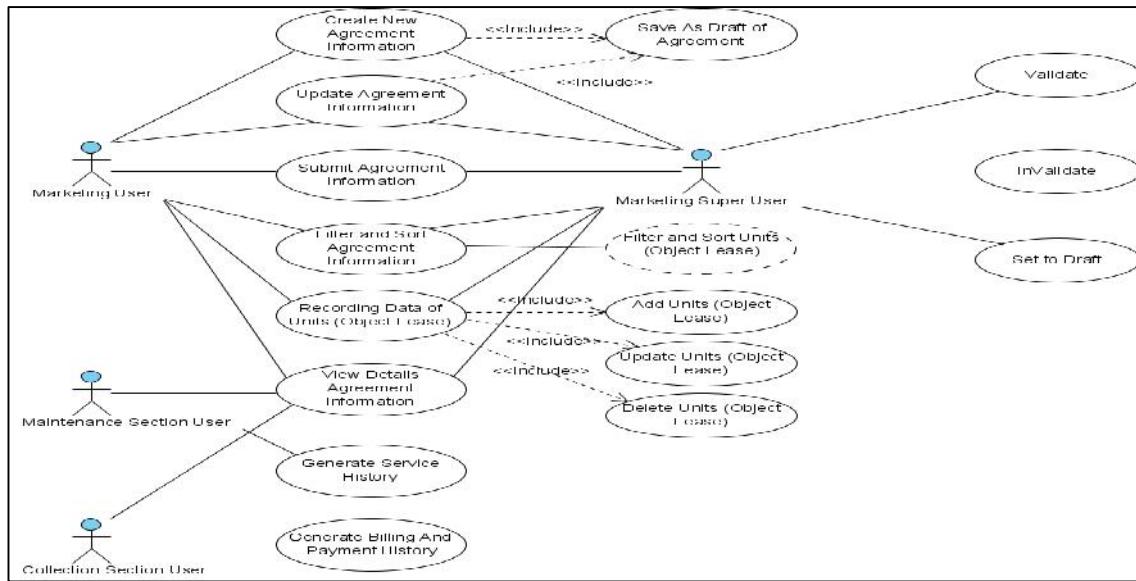


Figure 17 – Use case diagram of Agreement Information Inquiry

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).

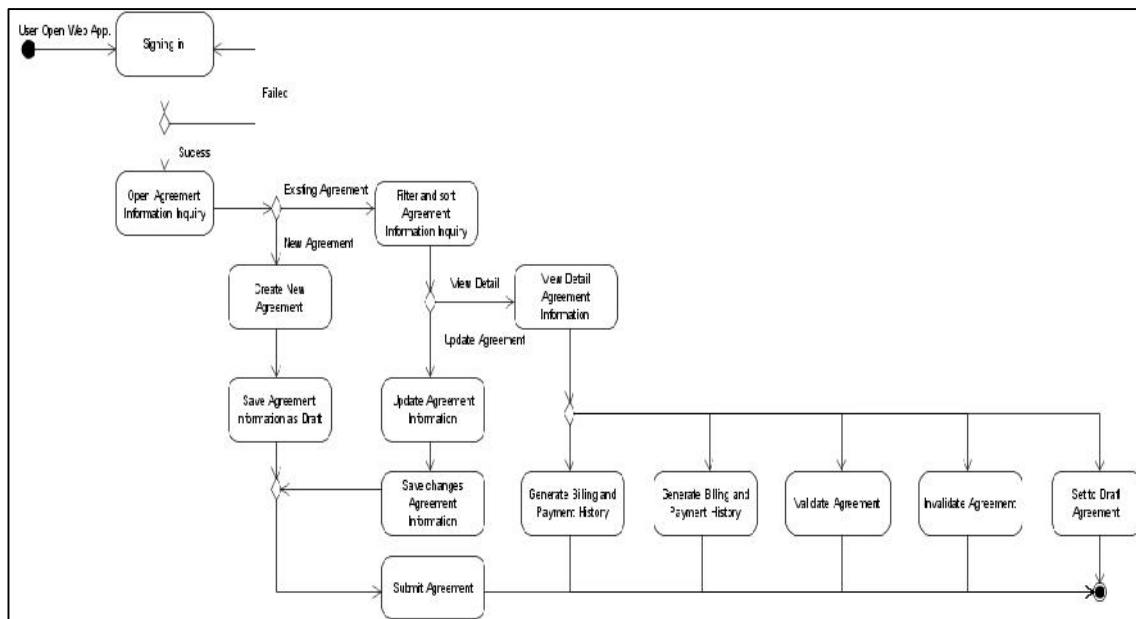


Figure 18 – Activity diagram of Agreement Information Inquiry

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No.	Steps/ Operations	Actor/ People	Scenario
1	Signing in	Marketing user, Marketing superuser	<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 agreementinformation inquiry module	Marketing user, Marketing superuser	<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, agreementinformation list will be shown and existing data will be displayed.
3.	Create new agreement information inquiry	Marketing user, Marketing superuser	<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	Marketing user,	<ul style="list-style-type: none"> On the list of agreementscreen actor can click [Edit] button to update the record by editing data on the edit

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	agreementrecords	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 are 2 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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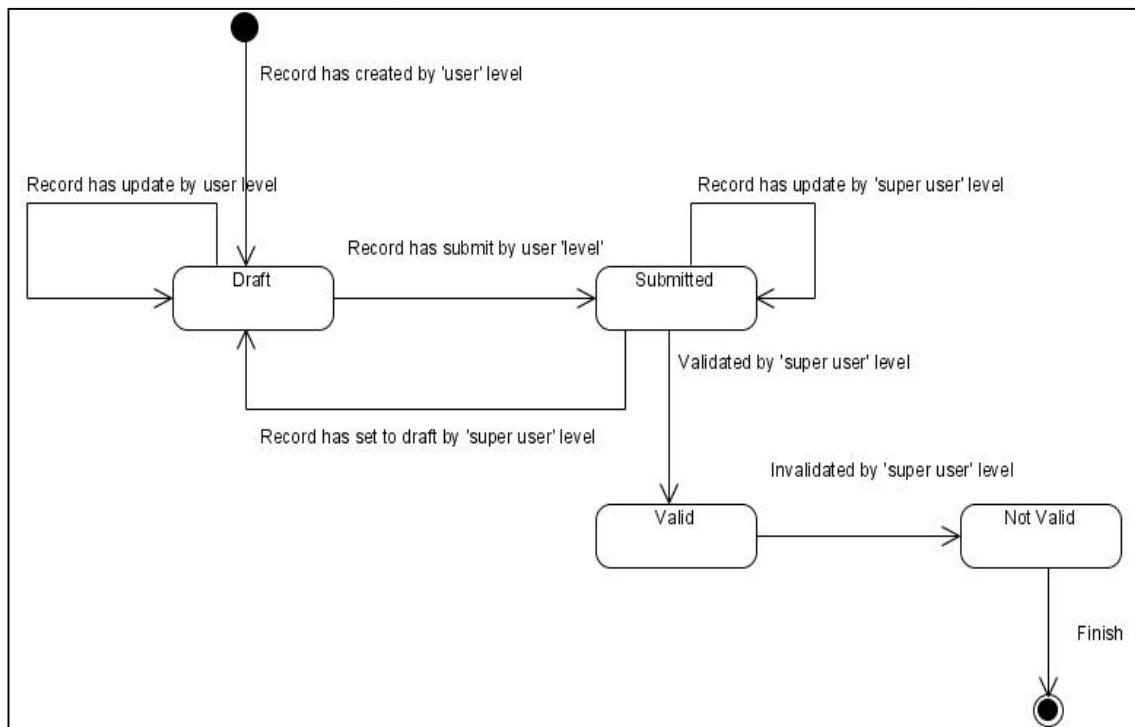


Figure 19 – Status diagram of Operating Lease Agreement

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.

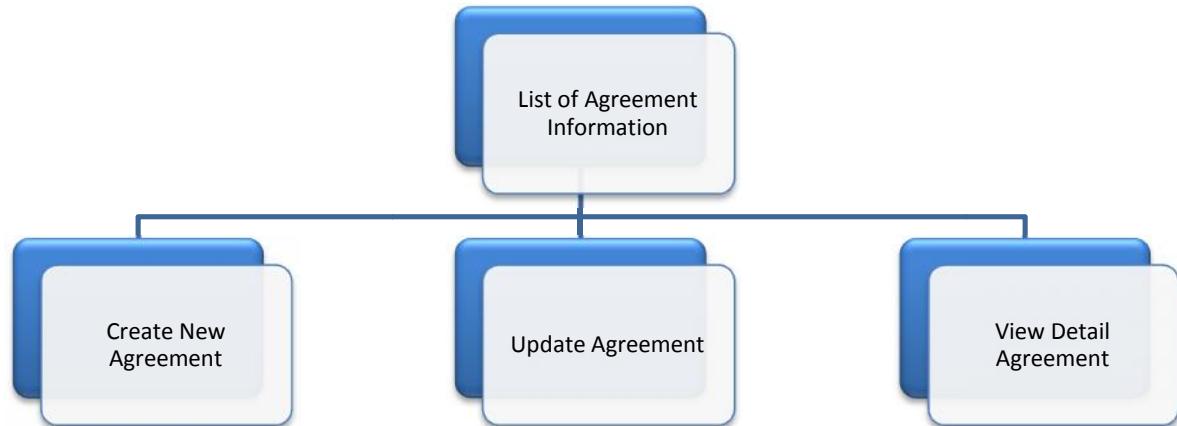


Figure 20 – Sitemap design of Operating lease agreement

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

Create New	To create new records						
Agreement list	To filter a number of record filter To open edit or view detail records To filter records						
Displaying list Search <input type="text" value="Keywords"/>							
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
-------	----------	---	---	------	------

Image36 – Screen of Agreement Information Inquiry List

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
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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.

Agreement Information																																	
Quotation Number	Quotation Number	Agreement Number	Agreement Number	Prev. Agree. Number	Prev. Agree. Number	Agreement Date	(mm/dd/yyyy)	To entry a quotation data																									
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)																										
<u>Payment Condition</u>																																	
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 (%)																														
<u>Maintenance Condition</u>																																	
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	Carsserie	Yes																										
Contract Mileage (per Months)	Contract Mileage	Actual Mileage (per Month)	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																										
<u>List of Unit (Object Lease)</u>																																	
Add	To add new records			To open view detail and delete a records																													
<table border="1"> <thead> <tr> <th>Police Number/Invoice Number</th> <th>Engine Number</th> <th>Carroseriel/ Accessories</th> <th>Action</th> </tr> </thead> <tbody> <tr> <td>B 3402 KAN</td> <td>00001/INV/11/2014</td> <td>Dump Truck, GPS</td> <td>Details Delete</td> </tr> <tr> <td>B 1843 TZV</td> <td>00002/INV/11/2014</td> <td>GPS</td> <td>Details Delete</td> </tr> <tr> <td>B 3435 QZR</td> <td>00001/INV/11/2014</td> <td>Dump Truck, GPS</td> <td>Details Delete</td> </tr> <tr> <td>B 6434 TZV</td> <td>00002/INV/11/2014</td> <td>GPS</td> <td>Details Delete</td> </tr> <tr> <td>B 5402 KAN</td> <td>00001/INV/11/2014</td> <td>Dump Truck, GPS</td> <td>Details Delete</td> </tr> </tbody> </table>										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
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																														
Showing 1 to 5 of 8 entries		Data paging information		To open paging the records																													
				First	Previous	1	2	Next	Last																								
<input type="button" value="Save as Draft"/> <input type="button" value="Submit"/>					To save and navigate the quotation data																												

Image37 – Screen of Agreement Information Inquiry List

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
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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.

Agreement Information									
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)		
<u>Payment Condition</u>									
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 (%)						
<u>Maintenance Condition</u>									
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 Month)	Actual Mileage	Regular Maint. (KM/ Month)	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	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				
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				

Image38 – Screen of Update Agreement Information

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
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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.

Agreement Information									
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)		
<u>Payment Condition</u>									
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 (%)						
<u>Maintenance Condition</u>									
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 Month)	Actual Mileage	Regular Maint. (KM/ Month)	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	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				
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				

Image39 – 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
Agreement Identity				
IdOPLAgreement	Numeric	N/A	N/A	Yes
PIC Information				
PICFullName	Text	200	N/A	No
PICPositionName	Text	50	N/A	No
PICEmailAddress	Text	50	N/A	No
PICTelephone	Text	50	N/A	No
Agreement Information				
CustomerCode	Text	10	N/A	No
AgreementNumberReff	Text	100	N/A	No
CustomerCodeReff	Text	10	N/A	No
AgreementNumber	Text	50	N/A	No
AgreementDate	Date	N/A	mm/dd/yyyy	No
StartPeriodDate	Date	N/A	mm/dd/yyyy	No
EndPeriodDate	Date	N/A	mm/dd/yyyy	No
TerminateDate	Date	N/A	mm/dd/yyyy	No
LeaseCategory	Text	100	N/A	No
Payment Condition				
IsInsurance	Yes/No	N/A	N/A	No
PurchaseAfterLease	Yes/No	N/A	N/A	No
PaymentTransactionType	Text	100	N/A	No

Functional Specification: A.1 Marketing Module

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FDueDateUsage	Date	N/A	mm/dd/yyyy	No
FDDatePayment	Date	N/A	mm/dd/yyyy	No
TermOfPayment	Numeric	N/A	N/A	No
DepositPaymentDate	Date	N/A	mm/dd/yyyy	No
DepositReturnDate	Date	N/A	mm/dd/yyyy	No
DepositAmount	Decimal	18,0	###,###,###.##	No
NumberOfPayments	Decimal	18,0	###,###,###.##	No
TotalMonthlyInstallment	Decimal	18,0	###,###,###.##	No
TotalUnitQuantity	Decimal	18,0	###,###,###.##	No
IssueInvoiceDate	Date	N/A	mm/dd/yyyy	No
InterestOfPenalty	Decimal	18,3	###,###,###.##	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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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

Project	Operating Lease Support System Development		
Author	Deny Prasetia	Date	13 Februari 2015
Status	Baseline	Version	1.0
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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 Efective]
 - o Rate Flat
 $(PMT(Rate, Nper, PV, FV, [type]) * -1 * Nper) - 1$
Rate = Effective Rate/12
Nper= Tenor Period
PV= Present Value (by default = 1)
FV= Future Value (by default = 0)
[type]= In advance; in arrier
2. Step3 - Maintenance Cost
 - o Sum Up Maintenance Cost Condition
3. Step4-Insurance Cost
 - o Sum Up Insurance Cost Condition
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] * [Lease Period Plan]*[Unit Quantity]
 - o Calculate Insurance Cost
[Sum Up Insurance Condition Cost]*[Lease Period Plan]*[Unit Quantity]
 - o Residual Value
[RV Rate] * [Nett Product Price]*[Unit Quantity]
 - o Standard Residual Value
[RV Rate] * [Gross Product Price]*[Unit Quantity]

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- STNK & KEUR Renewal Cost
[STNK Renewal Cost] + [KEUR Renewal Cost] * [Lease Period(yearly)]*[Unit Quantity]
- 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
[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)

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- Interest Cost Payment Settlement Accessories

$$[\text{Accessories Price}] * [\text{PS Percent To BAST}] * [\text{Payment Settlement Period to BAST}] * (\text{Borrowing Rate Flat/ 360})$$
- Interest Cost DP Carroserie

$$[\text{Carroserie Price}] * [\text{DP Percent To BAST}] * [\text{DP Period to BAST}] * (\text{Borrowing Rate Flat/ 360})$$
- Interest Cost Payment Settlement Carroserie

$$[\text{Accessories Price}] * [\text{PS Percent To BAST}] * [\text{Payment Settlement Period to BAST}] * (\text{Borrowing Rate Flat/ 360})$$
- Insurance Income Cost

$$[\text{Commission}]$$
- **Total Cost**

- DSFFinance Lease Interest Income

$$[\text{NetTotalPrice}] * [\text{SpreadFlatPercent}] * ([\text{LeasePeriodPlan}] 12);$$
- DSFFinance Lease Total Income

$$[\text{NetTotalPrice}] + [\text{DSFLeaseFinanceInterestIncome}] + [\text{Interest Expense}] + [\text{Administration Fee Amount}] + [\text{Insurance Income}]$$
- DSFFinance Lease Total Cost

$$[\text{NetTotalPrice}] + [\text{Interest Expense}]$$
- DSFFinance Lease Total Profit

$$[\text{DSFFinance Lease Total Income}] - [\text{DSFFinance Lease Total Cost}]$$

- OPL Product Profit

$$[\text{DSFFinance Lease Total Profit}] * [\text{Ratio}]$$
- **Total Profit**

$$[\text{OPLProductProfit}] + [\text{OPLProductTotalCost}]$$
- **Monthly Installment OPL**

$$[\text{TotalProfit}] / [\text{Lease Period Plan}]$$