



PT. BERLIAN SISTEM INFORMASI



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OPERATING LEASE SUPPORT SYSTEM DEVELOPMENT

FOR



Functional Specification A.1 Marketing Module

Revision 1.0

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1 Introduction

1.1 Purpose

Functional specification is to explain some of the following:

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

1.2 Scope

Marketing module described about how to maintain data transaction on the marketing process which is utilized by functions in the system. On this module there's no integration with another system (such as ACA and MFAPPL). This modules deal in the "to-be design" for developing the new system.

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

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

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

The following is functionality of marketing module:

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

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

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

1.3 Acronyms and abbreviations

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

1.4 References

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

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2 Detail Specification

2.1 Calculation of Refinance

2.1.1 Use case

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

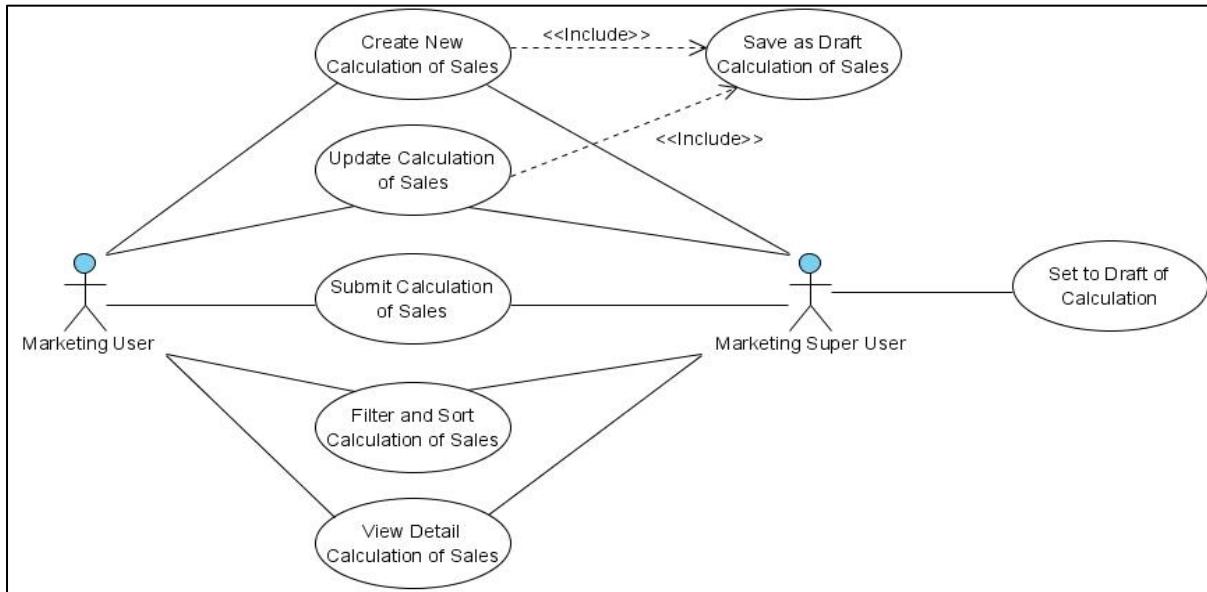


Figure 1 – Use case diagram of Calculation of Refinance

2.1.2 Operations and scenarios

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

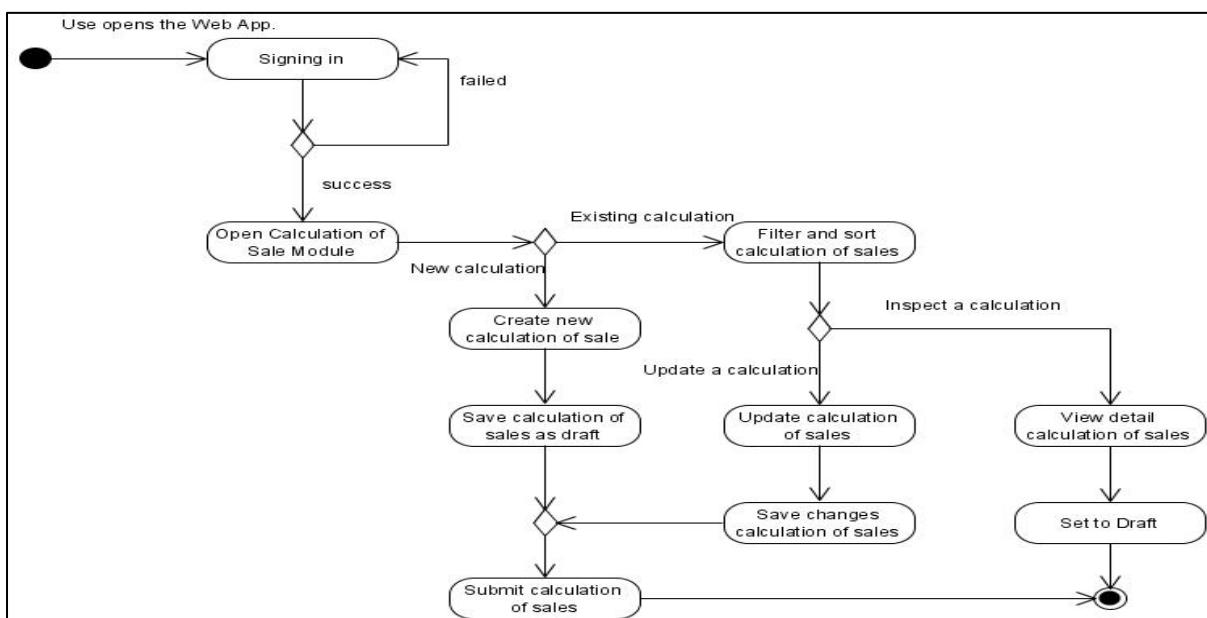


Figure 2 – Activity diagram of Calculation of Refinance

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

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

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2.1.3 Status management and roles

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

Role of Actor	Filter and sort	Save as draft	Save changes (draft)	Save changes (submitted)	Submit	Validate
Marketing super user	Yes	Yes	Yes	Yes	Yes	Yes
Marketing user	Yes	Yes	Yes	No	Yes	No

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

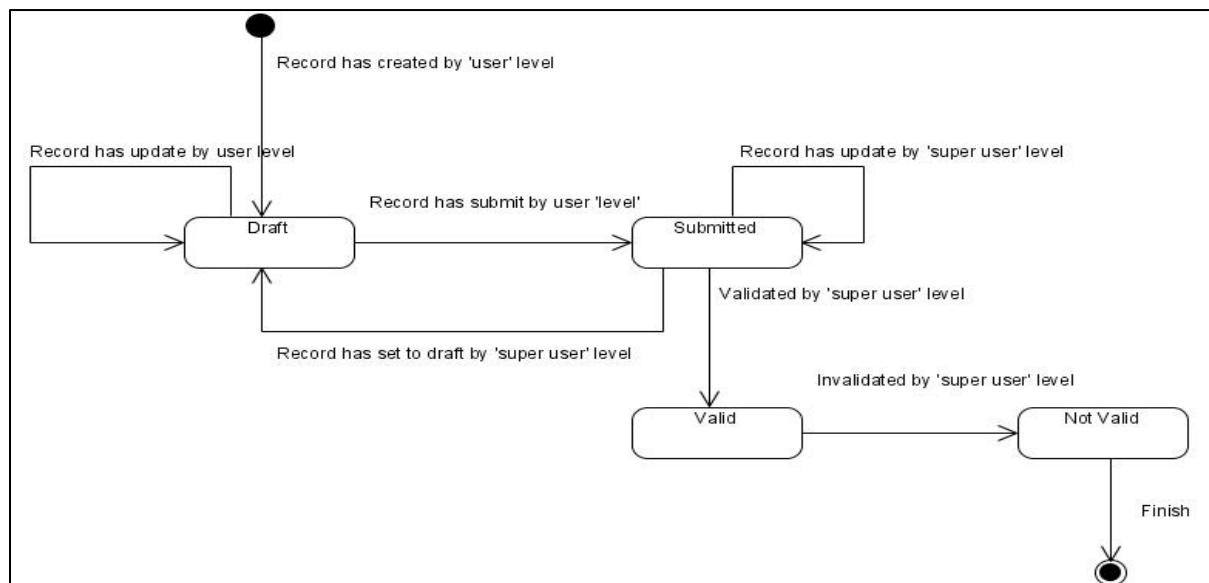


Figure 3 – Status diagram of Calculation of Refinance

2.1.4 Sitemap design

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



Figure 4 – Sitemap design of Calculation of Refinance

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2.1.5 Screen design

2.1.5.1 List of Refinance calculation

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

The screenshot shows a web-based application interface for managing sales calculations. At the top left, a button labeled '+ Create New' is highlighted with a red box and an arrow pointing to it. To its right is a text box labeled 'To create new calculation'. Below this is a section titled 'List of Sales Calculation' containing a table of data. The table has columns for COS Number, Customer Name, Agreement Number ref., Product, Quantity, Amount, Created By, Created Date, Status, and Action. Two rows of data are visible:

COS Number	Customer Name	Agreement Number ref.	Product	Quantity	Amount	Created By	Created Date	Status	Action
COS04060901	PT. Maju Jaya	000.0007/4 /01/03/2012	Mitsubishi Triton GLX SC DA9365CE	1 Unit	155,106,364	John Smith	01/01/2014	submitted	
COS04060902	PT. Sejahtera Jaya	000.0007/4 /01/03/2012	Mitsubishi Triton GLX SC DA9365CE	1 Unit	155,106,364	John Smith	01/01/2014	submitted	

On the left side of the table, there is a 'Show 10 entries' dropdown menu with an arrow pointing to it and a text box labeled 'To filter a number of record filter'. To the right of the table, there is a search bar with a magnifying glass icon and a text box labeled 'Search' with an arrow pointing to it and a text box labeled 'To filter calculation record'. Below the table, there is a text box labeled 'Displaying calculation list' with an arrow pointing to it. At the bottom of the page, there is a footer with the text 'Prototype - Final/dashboard.html'.

Image 1 – List of Refinance Calculation Screen

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2.1.5.2 Create new calculation of Refinance

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

Return back to list of sales calculation

To entry a calculation data

To save or submit calculation data

Save as Draft Submit

Number	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
Brand Code	Brand Name	Product Name
Model Year	Schedule Date for Registration (mm/dd/yyyy)	Displacement
Transmission	Fuel Type	Maximum Loading Capacity
Product Category	Special OP	Registration Date (mm/dd/yyyy)
Usage	Location	Number Plate Color
Actual Residual Value		0.00
Unit Quantity		0.00
Commission		0.00
Input Other Expense		0.00
Input Other Expense 1		0.00
Input Other Expense 2		0.00
Input Other Expense 3		0.00
Total Amount		0.00
Profits		
Item	Profit Amount	
Profits Total Amount - Actual Residual Value	0.00	

Image 2 – Screen of Create New Calculation of Refinance

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2.1.5.3 Update calculation of Refinance

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

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

- Lease Contract Information:** Contains fields for Agreement Number Ref., Customer Name Ref., Maintenance Type, Monthly Mileage, Expected Mileage, and Purchase Requirement After Lease.
- Product Basic Information:** Contains fields for Brand Code, Brand Name, Product Name, Model Year, Schedule Date for Registration, Displacement, Transmission, Fuel Type, Maximum Loading Capacity, Product Category, Special OP, Registration Date, Usage, Location, and Number Plate Color.
- Calculation:** Contains fields for Actual Residual Value, Unit Quantity, Comission, Total Amount, and Profits.
- Profits:** A table with columns for Item and Amount, showing Profits Total Amount - Actual Residual Value.

At the top right, there is a green "Validated" status indicator. At the bottom, there are two buttons: "Save Changes" and "Submit". A red box highlights the "Save Changes" button, and another red box highlights the "Submit" button. A red arrow points from the "Entry data form" button to the "Save Changes" button. A red box also highlights the "Entry data form" button.

Image 3 – Screen of Update Calculation of Refinance

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2.1.5.4 View detail calculation of Refinance

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

Number	Buyer / Customer
Number	Buyer / Customer

Lease Contract Information		
Agreement Number Ref.	Customer Name Ref.	Expected Mileage
Agreement Number Ref.	Customer Name Ref.	Expected Mileage
Maintenance Type	Monthly Mileage	Residual Value
Maintenance Type	Monthly Mileage	Residual Value
Expiration Date (mm/dd/yyyy)	Purchase Requirement After Lease	Purchase Requirement After Lease
Expiration Date (mm/dd/yyyy)	Purchase Requirement After Lease	Purchase Requirement After Lease

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

Calculation		
Actual Residual Value		0.00
Unit Quantity		0.00
Commission		0.00
Example Other Expense		0.00
Example Other Expense 1		0.00
Example Other Expense 2		0.00
Example Other Expense 3		0.00
Total Amount		0.00

Profits		
Item	Profit Amount	
Profits Total Amount - Actual Residual Value		0.00

Validate To changes a status of calculation record

Image 4 – Screen of View Detail Calculation of Refinance

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2.1.6 Screen features

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

2.1.7 Data structure

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

Functional Specification: A.1 Marketing Module				
Project	Operating Lease Support System Development			
Author	Deny Prasetya		Date	06 Januari 2015
Status	Baseline		Version	1.0
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Maximum Loading Capacity	Number	50	N/A	No
Product Category	Text	100	N/A	No
Number Plate Color	Text	100	N/A	No
Usage	Text	100	N/A	No
Location	Text	100	N/A	No
Schedule Date for Registration	Decimal	18,3	mm-dd-yyyy	No
Registration Date	Date	N/A	mm-dd-yyyy	No
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 Prasetya	Date	06 Januari 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.

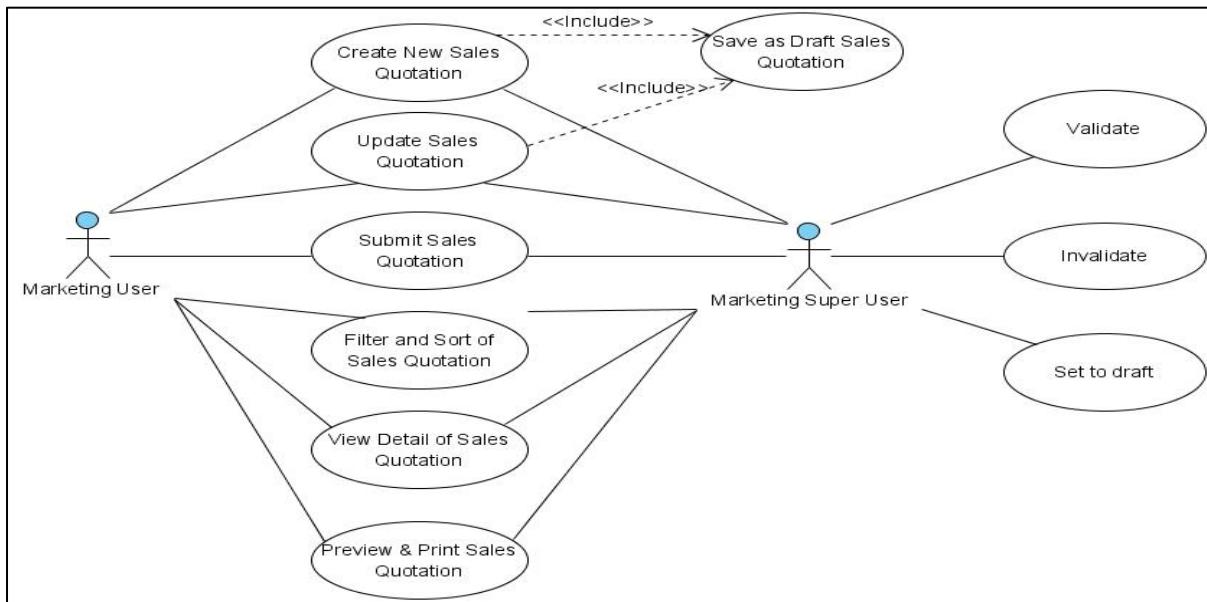


Figure 5 – Use case diagram of Refinance Quotation

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).

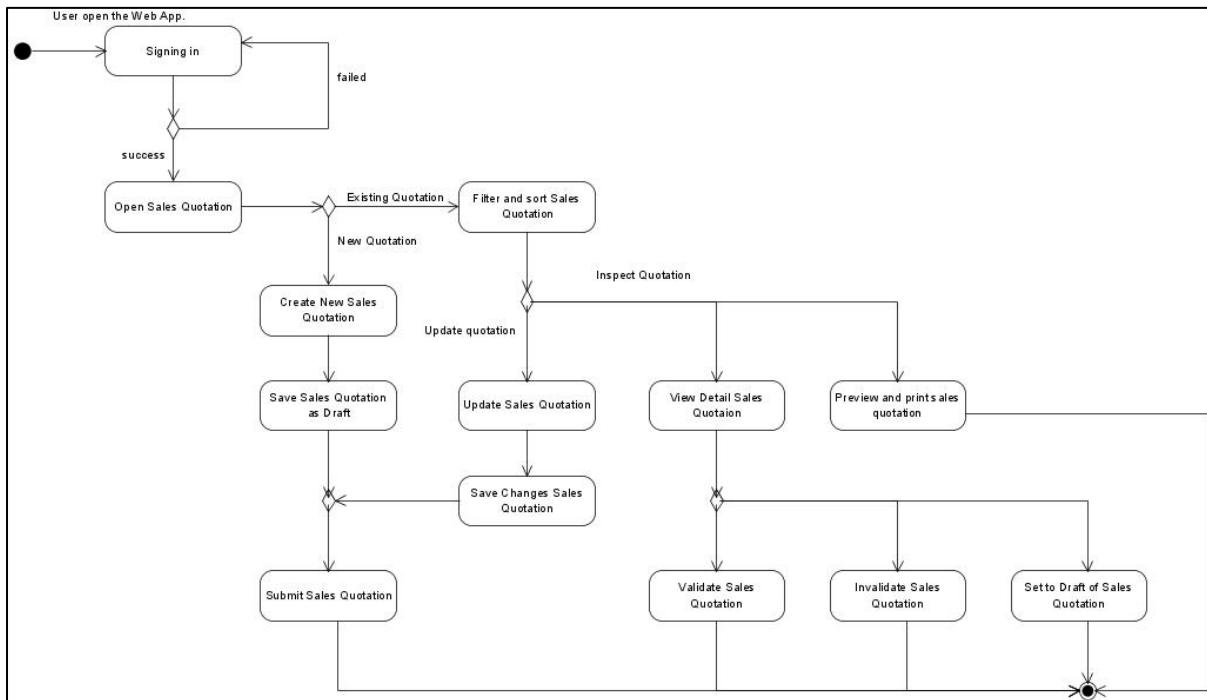


Figure 6 – Activity diagram of Refinance Quotation

Functional Specification: A.1 Marketing Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	06 Januari 2015
Status	Baseline	Version	1.0
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No.	Steps/ Operations	Actor/ People	Scenario
1	Signing in	Marketing user, Marketing super user	<ul style="list-style-type: none"> Actor fills out sign in form by inputting user name and password. Actor clicks [sign in] button. System will check the account of user; if user account is already registered user will enter into the system. If doesn't user can return the step.
2.	Open calculation of Refinance module	Marketing user, Marketing super user	<ul style="list-style-type: none"> After login, actor can open Refinance quotation module on the menu of system. After that, the Refinance quotation screen will open. After screen opens, Refinance quotation list will be shown and existing data will be displayed.
3.	Create new Refinance quotation	Marketing user, Marketing super user	<ul style="list-style-type: none"> If list of Refinance quotation screen opens, actor can click [create] button to create new quotation and after that create Refinance quotation screen will open. On this screen actor can specify the calculation records as basis to create the Refinance quotation. To specify the calculation records, click [...] button at calculation number, after that look-up window will be shown. These windows have features to search and select the calculation. At least one calculation must be selected. Once it done, actor can fill out other information on each field. The mandatory fields cannot be blank.
4.	Save Refinance quotation as draft	Marketing user, Marketing super user	<ul style="list-style-type: none"> After filling out the fields, actor can click [save as draft] button, if want to make a records as <u>draft</u>. After that, system will proceed to store a data into database and will automatically check a validity of data (such as; data type, mandatory data, and data length) If done, actor can click [Back] button to return to the list of Refinance calculation, then Refinance quotation data will be displayed.
5	Submit Refinance quotation record	Marketing user, Marketing super user	<ul style="list-style-type: none"> Once data is saved and data has been confirmed, actor can submit the record by click [Submit] button. After that system will set a Refinance quotation record as <u>submitted (or not draft)</u>. If done, actor can click back button to return to the list of Refinance quotation.
6.	Update Refinance quotation records	Marketing user, Marketing super user	<ul style="list-style-type: none"> On the list of Refinance quotation screen actor can click [Edit] button to update the record by editing data on the edit screen. If the quotations still <u>draft</u>, <i>marketing user</i> can click [edit] button on the right side of the records on list of Refinance quotation screen. If the quotation records already <u>submit</u> and the status is <u>valid</u>, <i>marketing user</i> cannot click [edit] button to open edit Refinance quotation screen.

Functional Specification: A.1 Marketing Module

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

2.2.3 Status management and roles

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

Role of Actor	Filter and sort	Save as draft	Save changes (draft)	Save changes (submitted)	Submit	Validate	Preview & Print
Marketing super user	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Marketing user	Yes	Yes	Yes	No	Yes	No	Yes

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

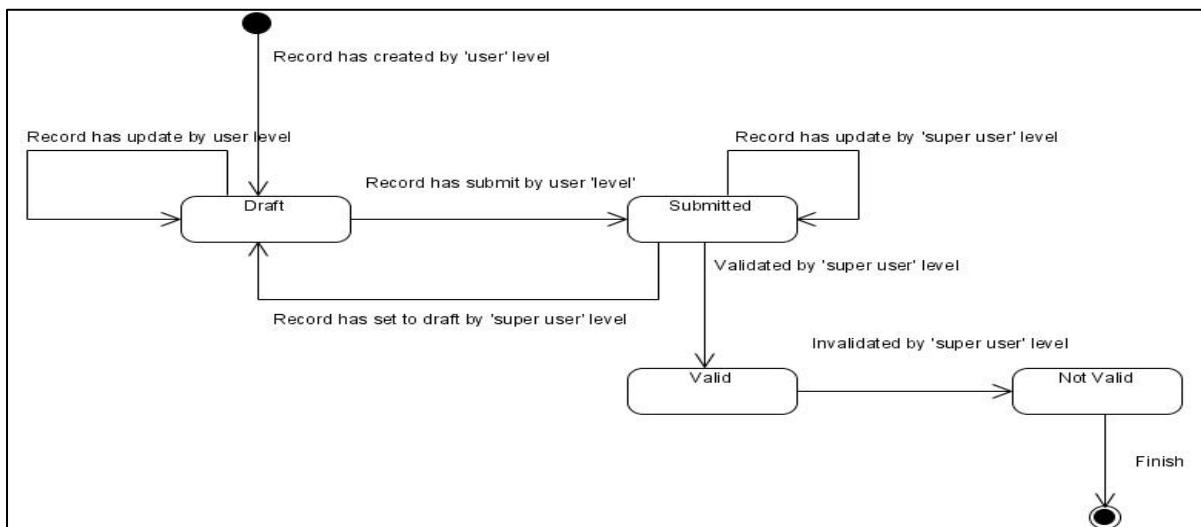


Figure 7 – Status diagram of Calculation of Refinance

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 web-based application interface for managing sales quotations. The top navigation bar includes a 'Create' button, a search bar, and a 'List of Sales Quotation' link. The main content area displays a table of six quotation records with columns for Number, Buyer / Customer, Product Name, Expected Delivery, Delivery Place, Validity Month, Status, and Action. Red boxes with callouts provide the following descriptions:

- To create new sales quotation (points to the '+ Create' button)
- To filter a number of record filter (points to the search bar)
- To filter sales quotation record (points to the search bar)
- Displaying list (points to the table header)
- To open edit or view detail sales quotation (points to the 'Action' column for the first row)
- Data paging information (points to the 'Showing 1 to 6 of 6 entries' message)
- To open paging the records (points to the page 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	

Image 5 – List of Refinance Quotation Screen

Functional Specification: A.1 Marketing Module			
Project	Operating Lease Support System Development		
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2.2.5.2 Create new Refinance quotation

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

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

- Product Basic Information:** This section includes fields for Number (with a red box around the 'Number' label), Buyer / Customer (with a red box around the 'Buyer / Customer' label), Brand Code, Brand Name, Product Name, Model Year, Schedule Date for Registration (mm/dd/yyyy), Displacement, Transmission, Fuel Type, Maximum Loading Capacity, Product Category, Special OP, Registration Date (mm/dd/yyyy), Usage (City dropdown), Location, and Number Plate Color (City dropdown).
- Quotation Information:** This section includes fields for Validity Month, Terms, Expected Delivery (dd/mm/yy), Down Payment, Delivery Place, and Remarks.
- Action Buttons:** At the bottom left are 'Save as Draft' and 'Submit' buttons. A red box highlights the 'Submit' button, and another red box points to it with the label 'To save or submit calculation data'.
- Navigation and Help:** At the top left is a 'Back' button. To its right is a red box containing the text 'Return back to list of sales calculation'. In the top right corner is a red box containing the text 'To entry a calculation data'.

Image 6 – Screen of Create New Refinance Quotation

Functional Specification: A.1 Marketing Module			
Project	Operating Lease Support System Development		
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2.2.5.3 Update Refinance quotation

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

Functional Specification: A.1 Marketing Module

Project: Operating Lease Support System Development

Author: Deny Prasetya

Date: 06 Januari 2015

Status: Baseline

Version: 1.0

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Entry data form

Status of sales quotation

Draft

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

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 Example	Location Example	Number Plate Color Black Example

Quotation Information

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

Save Changes **Submit** To save or submit of data

Image 7 – Screen of Update Refinance Quotation

Functional Specification: A.1 Marketing Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	06 Januari 2015
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2.2.5.4 View detail Refinance quotation

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

Detail sales quotation																																																			
Back	Return back to list of sales quotation	Status of sales quotation	submitted																																																
Created by	Abdul Somad Zaini	Created Date	01/01/2014																																																
Last Modified By	Abdul Somad Zaini	Last Modified Date	01/01/2014																																																
<table border="1"> <thead> <tr> <th colspan="3">Product Basic Information</th> </tr> </thead> <tbody> <tr> <td>Brand Code</td> <td>Brand Name</td> <td>Product Name</td> </tr> <tr> <td>Example</td> <td>Example</td> <td>Example</td> </tr> <tr> <td>Model Year</td> <td>Schedule Date for Registration (mm/dd/yyyy)</td> <td>Displacement</td> </tr> <tr> <td>Example</td> <td>Example</td> <td>Example</td> </tr> <tr> <td>Transmission</td> <td>Fuel Type</td> <td>Maximum Loading Capacity</td> </tr> <tr> <td>Example</td> <td>Example</td> <td>Example</td> </tr> <tr> <td>Product Category</td> <td>Special OP</td> <td>Registration Date (mm/dd/yyyy)</td> </tr> <tr> <td>Example</td> <td>Example</td> <td>Example</td> </tr> <tr> <td>Usage</td> <td>Location</td> <td>Number Plate Color</td> </tr> <tr> <td>Example</td> <td>Example</td> <td>Example</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="3">Quotation Information</th> </tr> </thead> <tbody> <tr> <td>Validity Month</td> <td>Terms</td> <td>Expected Delivery (dd/mm/yy)</td> </tr> <tr> <td>Example</td> <td>Example</td> <td>Example</td> </tr> <tr> <td>Down Payment</td> <td>Delivery Place</td> <td>Remarks</td> </tr> <tr> <td>Example</td> <td>Example</td> <td>Example</td> </tr> </tbody> </table>				Product Basic Information			Brand Code	Brand Name	Product Name	Example	Example	Example	Model Year	Schedule Date for Registration (mm/dd/yyyy)	Displacement	Example	Example	Example	Transmission	Fuel Type	Maximum Loading Capacity	Example	Example	Example	Product Category	Special OP	Registration Date (mm/dd/yyyy)	Example	Example	Example	Usage	Location	Number Plate Color	Example	Example	Example	Quotation Information			Validity Month	Terms	Expected Delivery (dd/mm/yy)	Example	Example	Example	Down Payment	Delivery Place	Remarks	Example	Example	Example
Product Basic Information																																																			
Brand Code	Brand Name	Product Name																																																	
Example	Example	Example																																																	
Model Year	Schedule Date for Registration (mm/dd/yyyy)	Displacement																																																	
Example	Example	Example																																																	
Transmission	Fuel Type	Maximum Loading Capacity																																																	
Example	Example	Example																																																	
Product Category	Special OP	Registration Date (mm/dd/yyyy)																																																	
Example	Example	Example																																																	
Usage	Location	Number Plate Color																																																	
Example	Example	Example																																																	
Quotation Information																																																			
Validity Month	Terms	Expected Delivery (dd/mm/yy)																																																	
Example	Example	Example																																																	
Down Payment	Delivery Place	Remarks																																																	
Example	Example	Example																																																	
Validate	To changes a status of sales quotation record																																																		

Image 8 – Screen of View Detail Refinance Quotation

Functional Specification: A.1 Marketing Module			
Project	Operating Lease Support System Development		
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2.2.5.5 Preview and print Refinance quotation

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

 DIPO STAR FINANCE <i>Solusi Kredit Otomatif</i>	
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	
We thank you for requesting a quotation us and submit followings for your consideration and approval.	
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	
We will be happy to supply any further information you may need and trust that you call on us to fill your order, which will receive our prompt and careful attention.	
PT.Dipo Star Finance	PT.Dipo Star Finance

Image 9 – Screen of Refinance Quotation 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	06 Januari 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 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 Prasetya	Date	06 Januari 2015
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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.

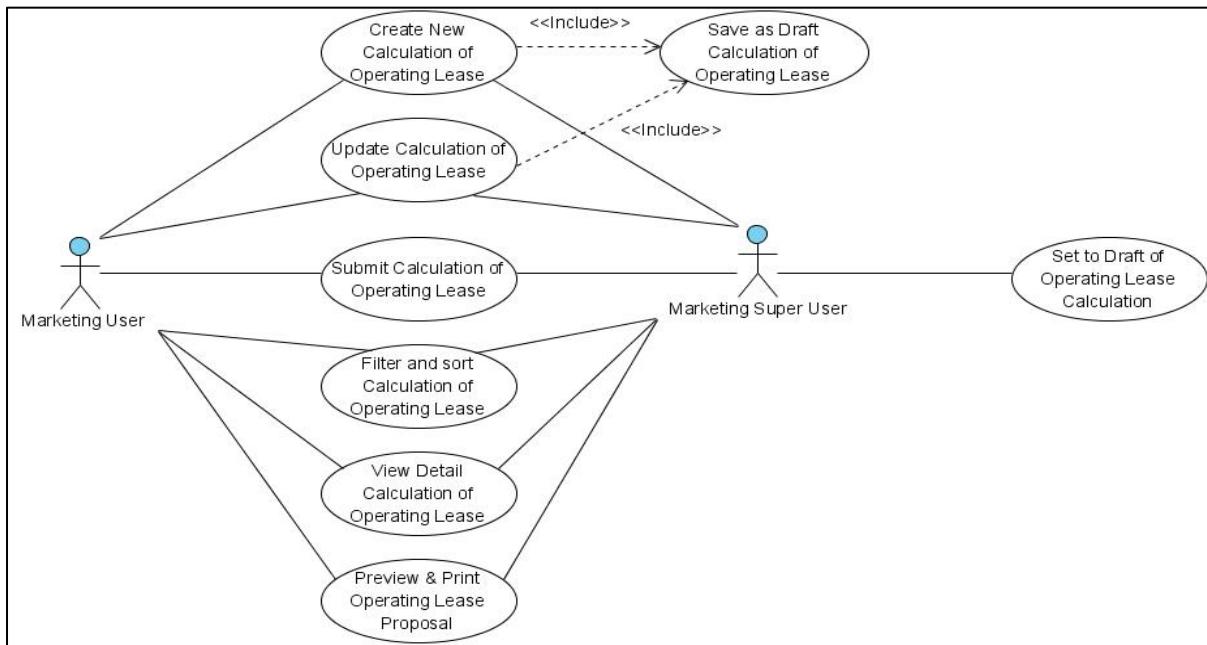


Figure 9 – Use case diagram of Calculation of Operating Lease

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).

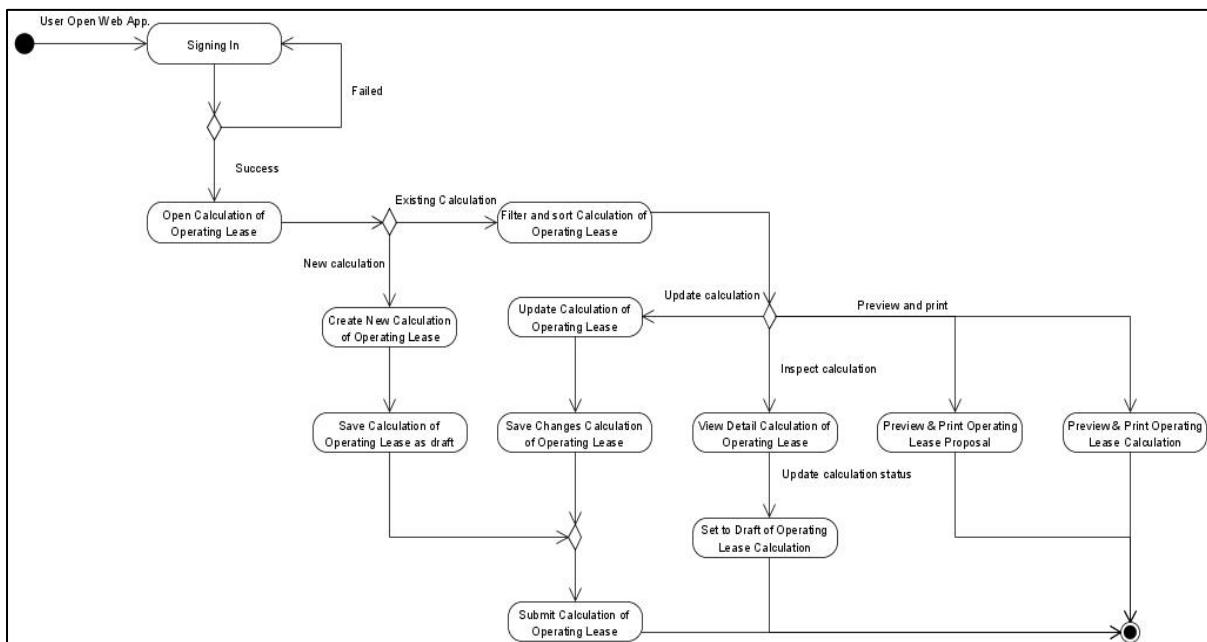


Figure 10 – Activity diagram of Calculation of Operating Lease

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	06 Januari 2015
Status	Baseline	Version	1.0
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No.	Steps/ Operations	Actor/ People	Scenario
1	Signing in	Marketing user, Marketing super user	<ul style="list-style-type: none"> Actor fills out sign in form by inputting user name and password. Actor clicks [sign in] button. System will check the account of user; if user account is already registered user will enter into the system. If doesn't user can return the step.
2.	Open calculation of operating lease module	Marketing user, Marketing super user	<ul style="list-style-type: none"> After login, actor can open calculation of operating lease module on the menu of system. After that, screen of calculation of operating lease will open. After screen opens, list of operating lease calculation will be shown and calculation data existing will be displayed.
3.	Create new calculation of operating lease	Marketing user, Marketing super user	<ul style="list-style-type: none"> If calculation screen opens, actor can click [create] button to create new records of calculation and after that create calculation screen will open. Once create calculation opens, the actors can fill out a form that is divided into 5 steps: <ol style="list-style-type: none"> Step-1; on this step product information and basic lease information should be identified first before continuing to the next step. To fill out product information and customer field actor can click [...] button at the fields. Upon clicking [...] button at look-up window will be shown. These windows have features to search and select the record. At least one record must be selected. On this step actor cannot move to the next step, if data has not been saved as draft. If it is done, click [next step] button to continue to Step-2 screen. Step 2; basic cost condition and finance condition can be identified on this screen. Data can be input manually one by one. If it is done, click [next step] button to continue to Step-3 Step-3; if maintenance type selected is other than non-maintenance, cost maintenance can be identified by input manually. Total Maintenance Cost will be calculated automatically. If it is done, click [next step] button to continue to Step-4 screen. Step-4, on this screen insurance data should be identified by input manually. Total insurance fee will be calculated automatically. If it is done, click [next step] button to continue to last screen. On the Step-5, this screen is final step, after fill out

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

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			<p>result will be displayed on list. If doesn't the list of operating lease calculation will be empty.</p> <ul style="list-style-type: none"> To sort calculation records, actor can click header of column on the list table. After that the records will be sorted by ascending or descending, alternately. Upon select [record number filter] drop down list, actor can select a record number to display on the list of operating lease calculation. At least only one item can be selected.
8.	View detail calculation of operating lease	Marketing user, Marketing super user	<ul style="list-style-type: none"> On the calculation screen actor can open view detail calculation screen to inspect a data. On the list of Refinance calculation screen, actor can click [view detail] button, after that system will display a screen of calculation detail. On this screen, actor cannot do anything to edit of data. Only viewing calculation record. There are 2 conditions when calculation detail screen opens: <ol style="list-style-type: none"> If calculation status is still draft or already valid, [validate] button and [set to draft] button will be disappeared. If calculation status was already submitted, [validate] button and [set to draft] button will be shown. If done, actor can click [Back] button to return to the list 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 least 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.

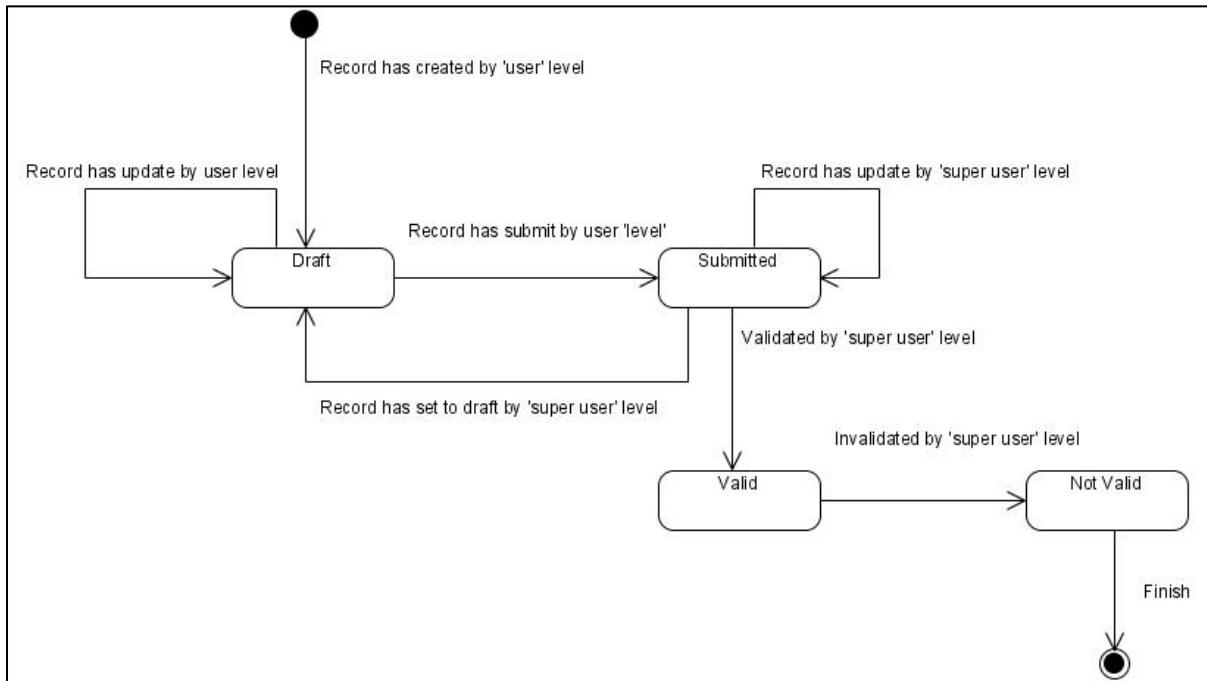


Figure 11 – Status diagram of Operating Lease Calculation

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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.

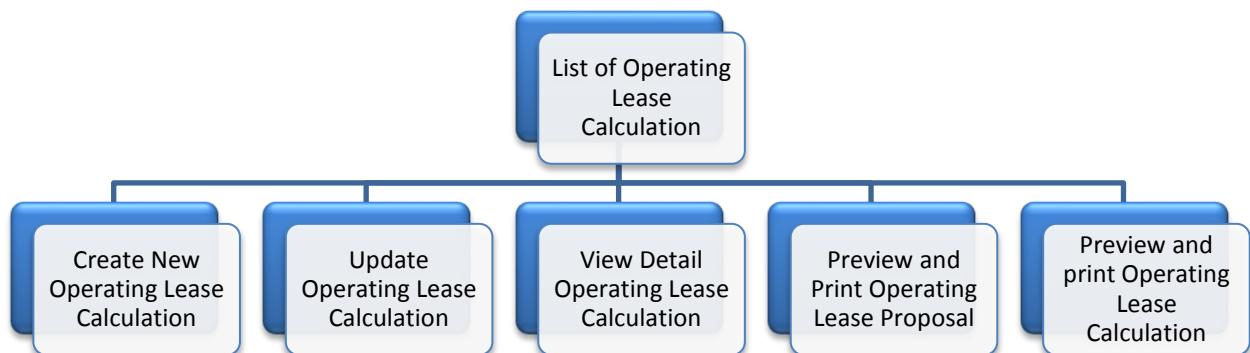


Figure 12 – Sitemap design of Operating Lease Calculation

2.3.5 Screen design

2.3.5.1 List of operating lease calculation

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

The screenshot shows the 'List of Calculation Operating Lease' screen. At the top left is a '+ Create' button with a red callout 'To create new records'. Below the header is a search bar with a red callout 'To filter records'. To the left of the main table are buttons for 'Show 10 entries' and a dropdown arrow, with a red callout 'To filter a number of record filter'. The main area contains a table with columns: OPL Calculation Number, Lease Category, Product Brand Name, Quantity, Maintenance Type, Is Insurance, Monthly Installment Fee, Interest Rate, Total Profit Amount, Status, and Action. A specific row is highlighted with a red box, showing values: COS04060901, Full Maintenance, PT. Maju Jaya, 000.007/4, /01/03/2012, Mitsubishi Triton GLX SC DA9365CE, 1 Unit, 155,106,364, John Smith, John Smith, submitted, and a set of icons. Red callouts point to the 'submitted' status and the icon set. At the bottom of the screen are buttons for 'First', 'Previous', '1', 'Next', and 'Last', with a red callout 'To open paging the records'. Below these buttons is a red box containing 'Showing 1 to 1 of 1 entries' and 'Data paging information'.

Image 10 – 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 Refinance record. After filling out necessary data on the screen, actor can store a data into the system by clicking the action button.

The screenshot shows the 'Create New Operating Lease Calculation Screen (Step 1)'. The interface is divided into several sections:

- Header:** Includes a 'Back' button, a 'Return back to list of operating lease calculation' link, and a 'To entry a calculation data' link. A 'Draft' indicator is also present.
- Step Navigation:** Shows steps 1 through 5.
- User Information:** 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).
- Basic Information (Product):** Contains fields for Product Registration Code, Product Type, Product Category, Product Brand Code, Product Brand Name, Product Model Code, Product Model Name, Product Model Type, Product Model Year (yyyy/mm), Transmission, Fuel Type, and Displacement (CC).
- Basic Information (Lease):** Contains fields for Customer Code, Customer Name, Lease Period Plan (Months), Start Period Plan (yyyy/mm/dd), End Period Plan (yyyy/mm/dd), Previous Contract Number, Usage, Lease Category (New), Maintenance Type (Full Maintenance), Monthly Mileage (Km), Number Plate Color (Black), STNK Renewal Fee (Yes), Purchase Requirement After Lease (Yes), Insurance (Yes), Carrosserie (Rp), KEUR Renewal Fee (Yes), Accessories (Rp), and KEUR Renewal Fee (Yes).
- Action Buttons:** Includes 'Save as Draft' and 'Next Step >' buttons.
- Bottom Note:** A note stating 'To save and navigate the calculation data'.

Image 11 – 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

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

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

Image 12 – Screen of Create New Operating Lease Calculation Screen (Step 2)

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The screenshot shows the 'Create New Operating Lease Calculation' screen in Step 3. The interface is organized into several sections:

- Maintenance Basic Information:** Contains fields for Brand Code, Product Type, Monthly Mileage (Km), Brand Name, Product Category, Usage, Model Name, Model Year (yyyy/mm), and Lease Period (Months).
- Maintenance Condition & Cost:** A large section for entering maintenance details. It includes a dropdown for Maintenance Type ('Full Maintenance') and a grid for listing various types of maintenance with columns for description, unit (Km or Remarks), and amount (Rp).
- Footer:** Includes navigation buttons ('Previous Step', 'Save Changes', 'Next Step'), a 'Total Maintenance Cost' summary (Rp Total), and a 'Draft' status indicator.

Annotations with red boxes and arrows point to specific elements:

- A red box points to the 'Back' button in the top-left corner.
- A red box points to the 'Return back to list of operating lease calculation' link.
- A red box points to the 'To entry a calculation data' link.
- A red box points to the 'Draft' status indicator in the top-right corner.
- A red box points to the 'Step 3' navigation button.
- A red box points to the 'Created by' and 'Last Modified By' fields.
- A red box points to the 'Created Date' and 'Last Modified Date' fields.
- A red box points to the 'Total Maintenance Cost' summary.
- A red box points to the 'Save Changes' button in the footer.
- A red box points to the 'To save and navigate the calculation data' link.

Image 13 – Screen of Create New Operating Lease Calculation Screen (Step 3)

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The screenshot shows the 'Create New Operating Lease Calculation' screen in Step 4. The interface is organized into several sections:

- Top 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 'Step 1' through 'Step 5' with 'Step 4' highlighted.
- User Details:** Displays 'Created by' (Abdul Somad Zaini), 'Created Date' (01/01/2014), 'Last Modified By' (Abdul Somad Zaini), and 'Last Modified Date' (01/01/2014).
- Insurance Basic Information:** Contains fields for Start Period Plan, End Period Plan, Lease Period Plan, Insurance Company, Insurance Agent, Coverage Period, Rate of Mediator Fee, Class of Insurance, Commission Rate, Insurance of Payment Cycle, Region, and Remarks.
- Product:** Includes fields for Model Name, Product Type, Product Category, and Model Year.
- Insurance Condition & Cost:** A large section containing tables for various insurance types (Basic Premium, Third Party Liability, Property Lost Liability, Personal Accident for Passenger, Personal Accident for Driver, Strike, Riots & Civil Commotion, Terrorism & Sabotage, Flood & Windstorm, Earthquake & Tsunami, Authorized Workshop) with columns for coverage type, basic rate, and gross premium.
- Total Summary:** Displays 'Total Gross Premium', 'Commission Amount', and 'Net Premium'.
- Bottom Navigation:** Includes 'Previous Step', 'Save Changes' (highlighted in red), 'Next Step', and a link to 'To save and navigate the calculation data'.

Image 14 – Screen of Create New Operating Lease Calculation Screen (Step 4)

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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

Created by	Abdul Somad Zaini	Created Date	01/01/2014	Last Modified By	Abdul Somad Zaini	Last Modified Date	01/01/2014
Basic Information (Lease Fee)							
Start Period Plan (yyyy/mm/dd) Start Period Plan (yyyy/mm/dd)	End Period Plan (yyyy/mm/dd) End Period Plan (yyyy/mm/dd)	Lease Period Plan (Months) Lease Period Plan (Months)		Security Deposit Amount Rp Security Deposit Amount			
BAST Handover Schedule (yyyy/mm/dd) BAST Handover Schedule (yyyy/mm/dd)	Security Deposit Payment Yes	Special Case (Remarks) Expired Date					
First Lease Payment (Days) First Lease Payment (Days)	Total Unit Quantity Lease Total Unit Quantity Lease						
Setting Monthly Installment							
Monthly Installment Setting (%) Monthly Installment Setting (%)	Borrowing Rate (%) Borrowing Rate (%)	Spread of Interest Rate (%) Spread of Interest Rate (%)	Internal Interest Rate (%) Internal Interest Rate (%)				
Confirmation of Lease Cost							
Product Price Rp Vehicle Price	Quantity	Rp Total					
Residual Value (-) Rp Residual Value (-)	Quantity	Rp Total					
STNK Renewal Fee Rp STNK Renewal Fee	Quantity	Rp Total					
Maintenance Cost Rp Maintenance Cost	Quantity	Rp Total					
Replacement Cost Expense Rp Replacement Cost Expense	Quantity	Rp Total					
Insurance Fee Rp Insurance Fee	Quantity	Rp Total					
Mediator Fee Rp Mediator Fee	Quantity	Rp Total					
Mobilization Fee Rp Mobilization Fee	Quantity	Rp Total					
Demobilization Fee Rp Demobilization Fee	Quantity	Rp Total					
Interest Expense Rp Interest Expense	Quantity	Rp Total					
Interest Expense for Term of Payment Rp Interest Expense for Term of Payment	Quantity	Rp Total					
Interest Expense Payment Before BAST Rp Interest Expense Payment Before BAST	Quantity	Rp Total					
Total Cost Rp Total Cost	Quantity	Rp Total					
Monthly Installment (DSF Standard) Rp Monthly Installment (DSF Standard)	Quantity	Rp Total					
Profit Result							
Interest Rate (%) Interest Rate (%)	Quantity	Rp Total					
Spread (%) Spread (%)	Quantity	Rp Total					
Profits Rp Profits	Quantity	Rp Total					
Insurance Commission Rp Insurance Commission	Quantity	Rp Total					
Total Profit Rp Total Profit	Quantity	Rp Total					
◀ Previous Step Save Changes Submit To save and navigate the calculation data							

Image 15 – Screen of Create New Operating Lease Calculation Screen (Step 5)

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2.3.5.3 Update calculation of operating lease

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

The screenshot shows the 'Update calculation of operating lease' screen. The top navigation bar includes a 'Back' button, a link to 'Return back to list of operating lease calculation', and a 'To entry a calculation data' button. The main content area is divided into two sections: 'Basic Information (Product)' and 'Basic Information (Lease)'. The 'Product' section contains fields for Product Registration Code (example), 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. The 'Lease' section contains fields for Customer Code, Customer Name, Start Period Plan, End Period Plan, Lease Period Plan, Lease Category, Previous Contract Number, Monthly Mileage, Usage, Maintenance Type, Purchase Requirement After Lease, STNK Renewal Fee, KEUR Renewal Fee, Number Plate Color, Insurance, Carroserie, and Accessories. At the bottom, there are 'Save Changes' and 'Next Step' buttons. A red box highlights the entire form area, and red arrows point from the 'To entry a calculation data' button to the 'To entry a calculation data' text and from the 'Next Step' button to the 'To save and navigate the calculation data' text.

Image 16 – Screen of Update Operating Lease Calculation screen (Step 1)

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

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

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	ATPM Discount	Product Price Total				
Rp 10.000.000	Rp 530.000.000	Rp 510.000.000	Rp 510.000.000				
Accessories Price	Supplier Discount	Accessories Price Total					
Rp Accessories Price	Rp 510.000.000	Rp 500.000.000					
Carrosserie Price	Supplier Discount	Carrosserie Price Total					
Rp Carrosserie Price	Rp 500.000.000	Rp 530.000.000					
Residual Value Amount	Residual Value (%)	Standard Residual Value (%)	Standard Residual Value Amount				
Rp 530.000.000	5	10	Rp 5000				
Finance Condition							
Spread Effective (%)	Borrowing Rate Flat (%)	Prime Rate Effective (%)	Prime Rate Flat (%)	Borrowing Rate Effective (%)	Spread Flat (%)		
50	12	45	56	34	45		
Administration Fee	Replacement Car Amount	Mobilizations Fee	Demobilizations Fee	Term of Payment (Days)	Payment Type		
Rp 10.000.000	Rp 40.000.000	Rp 23.000.000	Rp 12.000.000	34	In Arrear		
Product							
DP Before BAST (%)	DP Period to BAST (Days)	Payment Settlement before BAST (%)	Payment Settlement Period to BAST (Days)				
34	12	56	45				
Carrosserie							
DP Before BAST (%)	DP Period to BAST (Day)	Payment Settlement Before BAST	Payment Settlement Period to BAST (Days)				
34	23	20.000.000	45				
Accessories							
DP Before BAST (%)	DP Period to BAST (Days)	Payment Settlement Before BAST	Payment Settlement Period to BAST (Days)				
23	12	200	20				
Registration Fee							
Amount of STNK Renewal Fee	Amount of KIR Renewal Fee	Rate of STNK Renewal Fee	Rate of KIR Renewal Fee				
Rp 10.000.000	Rp 20.000.000	Rp 26.000.000	Rp 29.000.000				

◀ Previous Step
Save Changes
Next Step ➤
To save and navigate the calculation data

Image 17 – Screen of Update Operating Lease Calculation screen (Step 2)

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Return back to list of operating lease calculation

To entry a calculation data

1 Step 1 / 2 Step 2 / 3 Step 3 / 4 Step 4 / 5 Step 5

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	Value	Unit	Cost (Rp)
Full Maintenance	5000	Km	6000
<input checked="" type="checkbox"/> Periodic Maintenance	2000	Km	Hello
<input checked="" type="checkbox"/> Oil Exchange			Rp 6000
<input checked="" type="checkbox"/> Exchange of Oil and Fats			
<input checked="" type="checkbox"/> Irregular Maintenance	example		Rp 8000
<input checked="" type="checkbox"/> Battery	6000	Km	Rp 9000
<input checked="" type="checkbox"/> Tire	6000	Km	Rp 9100
<input checked="" type="checkbox"/> Maintenance of Special OP Parts	Example		Rp 9140
<input checked="" type="checkbox"/> CSD	Example		Rp 9140
<input checked="" type="checkbox"/> Maintenance of Others (1)	Example		Rp 9140
<input checked="" type="checkbox"/> Maintenance of Others (2)	Example		Rp 9140
<input checked="" type="checkbox"/> Maintenance of Others (3)	Example		Rp 9140

Total Maintenance Cost: Rp 20000000

< Previous Step | Save Changes | Next Step >

To save and navigate the calculation data

Image 18 – Screen of Update Operating Lease Calculation screen (Step 3)

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

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

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 Period Plan (yyyy/mm/dd)	End Period Plan (yyyy/mm/dd)	Lease Period Plan (Months)		Rate of Mediator Fee (%)				
Start Period Plan (yyyy/mm/dd)	End Period Plan (yyyy/mm/dd)	Lease Period Plan (Months)		56				
Insurance Company	Insurance Agent	Coverage Period (Month + 1)		5				
PT. Maju Sejahtera	Example	Insurance of Payment Cycle		Yearly				
Class of Insurance	Commission Rate (%)	Region		Region 1				
Example	40							
Remarks								
Example								
Product								
Model Name	Product Type	Product Category	Model Year (yyyy/mm)	Model Year (yyyy/mm)				
Model Name	Product Type	Product Category	Model Year (yyyy/mm)	Model Year (yyyy/mm)				
Insurance Condition & Cost								
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 Gross Premium								
Rp 25.000.000								
Commission Amount								
Rp 25.000.000								
Mediator Fee Amount								
Rp 25.000.000								
Net Premium								
Rp 25.000.000								
« Previous Step	Save Changes	Next Step »	To save and navigate the calculation data					

Image 19 – Screen of Update Operating Lease Calculation screen (Step 4)

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	06 Januari 2015
Status	Baseline	Version	1.0
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Return back to list of operating lease calculation
To entry a calculation data

1 Step 1
2 Step 2
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5 Step 5

Basic Information (Lease Fee)			
Start Period Plan (yyyy/mm/dd) Start Period Plan (yyyy/mm/dd)	End Period Plan (yyyy/mm/dd) End Period Plan (yyyy/mm/dd)	Lease Period Plan (Months) Lease Period Plan (Months)	
BAST Handover Schedule (yyyy/mm/dd) 2014/03/03	Security Deposit Payment Yes	Security Deposit Amount Rp Security Deposit Amount	
First Lease Payment (Days) 45	Total Unit Quantity Lease 600	Special Case (Remarks) 2014/03/03	
Setting Monthly Installment			
Monthly Installment Setting (%) 45	Borrowing Rate (%) Borrowing Rate (%)	Spread of Interest Rate (%) Spread of Interest Rate (%)	Internal Interest Rate (%) Internal Interest Rate (%)
Confirmation of Lease Cost			
Product Price Rp 5000	Quantity	Rp 5.000.000	
Residual Value (-) Rp 5000	Quantity	Rp 5.000.000	
STNK Renewal Fee Rp 5000	Quantity	Rp 5.000.000	
Maintenance Cost Rp 5000	Quantity	Rp 5.000.000	
Replacement Cost Expense Rp 5000	Quantity	Rp 5.000.000	
Insurance Fee Rp 5000	Quantity	Rp 5.000.000	
Mediator Fee Rp 5000	Quantity	Rp 5.000.000	
Mobilization Fee Rp 5000	Quantity	Rp 5.000.000	
Demobilization Fee Rp 5000	Quantity	Rp 5.000.000	
Interest Expense Rp 5000	Quantity	Rp 5.000.000	
Interest Expense for Term of Payment Rp 5000	Quantity	Rp 5.000.000	
Interest Expense Payment Before BAST Rp 5000	Quantity	Rp 5.000.000	
Total Cost Rp 5000	Quantity	Rp 5.000.000	
Monthly Installment (DSF Standard) Rp 5000	Quantity	Rp 5.000.000	
Profit Result			
Interest Rate (%) 50	Quantity	Rp 5.000.000	
Spread (%) 46	Quantity	Rp 5.000.000	
Profits Rp 5000	Quantity	Rp 5.000.000	
Insurance Commission Rp 5000	Quantity	Rp 5.000.000	
Total Profit Rp 5000	Quantity	Rp 5.000.000	

[◀ Previous Step](#)
[Save Changes](#)
[Submit](#)
To save and navigate the calculation data

Image 20 – Screen of Update Operating Lease Calculation screen (Step 5)

Functional Specification: A.1 Marketing Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	06 Januari 2015
Status	Baseline	Version	1.0
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2.3.5.4 View detail calculation of operating lease

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

The screenshot shows a user interface for viewing operating lease calculations. At the top left is a 'Back' button with a red box around it. To its right is a link 'Return back to list of operating lease calculation'. In the top right corner is a 'Draft' button. Below these are five numbered steps: Step 1, Step 2, Step 3, Step 4, and Step 5. Underneath the steps is a row of metadata: Created by (Abdul Somad Zaini), Created Date (01/01/2014), Last Modified By (Abdul Somad Zaini), and Last Modified Date (01/01/2014). The main content area is divided into two sections: 'Basic Information (Product)' and 'Basic Information (Lease)'. Each section contains two columns of data pairs. In the 'Product' section, pairs include 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); Product Model Name, Product Model Type, Product Model Year (yyyy/mm); Transmission, Fuel Type, Displacement (CC); and Transmission, Fuel Type, Displacement (CC). In the 'Lease' section, pairs include Customer Code, Customer Name; Start Period Plan (yyyy/mm/dd), End Period Plan (yyyy/mm/dd); Lease Category, Previous Contract Number; Maintenance Type, Monthly Mileage (Km); STNK Renewal Fee, Purchase Requirement After Lease; STNK Renewal Fee, Purchase Requirement After Lease; Carroserie, KEUR Renewal Fee; and Carroserie, KEUR Renewal Fee. At the bottom are buttons for 'Save as Draft' and 'Next Step >' with a red box around them, and a link 'To navigate the calculation data'.

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)

Customer Code	Customer Name	
Customer Code	Customer Name	
Start Period Plan (yyyy/mm/dd)	End Period Plan (yyyy/mm/dd)	Lease Period Plan (Months)
Start Period Plan (yyyy/mm/dd)	End Period Plan (yyyy/mm/dd)	Lease Period Plan (Months)
Lease Category	Previous Contract Number	Usage
Lease Category	Previous Contract Number	Usage
Maintenance Type	Monthly Mileage (Km)	Number Plate Color
Maintenance Type	Monthly Mileage (Km)	Number Plate Color
STNK Renewal Fee	Purchase Requirement After Lease	Insurance
STNK Renewal Fee	Purchase Requirement After Lease	Insurance
Carroserie	KEUR Renewal Fee	Accessories
Carroserie	KEUR Renewal Fee	Accessories

Image 21 – Screen of View Detail Operating Lease Calculation (Step 1)

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	06 Januari 2015
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Return back to list of operating lease calculation
A detail calculation data

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

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	ATPM Discount	Product Price Total				
Rp. 10.000.000	Rp. 100.000	Rp. 100.000	Rp. 100.000				
Accessories Price	Supplier Discount	Accessories Price Total					
Rp. 20.000.000	Rp. 100.000	Rp. 100.000					
Carroserie Price	Supplier Discount	Carroserie Price Total					
Rp. 30.000.000	Rp. 100.000	Rp. 100.000					
Residual Value Amount	Residual Value (%)	Standard Residual Value (%)	Standard Residual Value Amount				
Rp. 100.000	Rp. 100.000	80%	Rp. 100.000				
Finance Condition							
Spread Effective (%)	Borrowing Rate Flat (%)	Prime Rate Effective (%)	Prime Rate Flat (%)	Borrowing Rate Effective (%)	Spread Flat (%)		
70%	70%	70%	70%	70%	70%		
Administration Fee	Replacement Car Amount	Mobilizations Fee	Demobilizations Fee	Term of Payment (Days)	Payment Type		
Rp 70.000	Rp 70.000	Rp 70.000	Rp 70.000	3	Cash		
Product							
DP Before BAST (%)	DP Period to BAST (Days)	Payment Settlement before BAST (%)	Payment Settlement Period to BAST (Days)				
80%	80 Days	80%	80 Days				
Carroserie							
DP Before BAST (%)	DP Period to BAST (Day)	Payment Settlement Before BAST	Payment Settlement Period to BAST (Days)				
80%	8 Days	Rp 400.000	5 Days				
Accesories							
DP Before BAST (%)	DP Period to BAST (Days)	Payment Settlement Before BAST	Payment Settlement Period to BAST (Days)				
5%	58 Days	59.000	59 Days				
Registration Fee							
Amount of STNK Renewal Fee	Amount of KIR Renewal Fee	Rate of STNK Renewal Fee	Rate of KIR Renewal Fee				
Rp 70.000	Rp 70.000	Rp 70.000	Rp 70.000				

◀ Previous Step
Save Changes
Next Step ▶
To navigate the calculation data

Image 22 – Screen of View Detail Operating Lease Calculation (Step 2)

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	06 Januari 2015
Status	Baseline	Version	1.0
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Return back to list of operating lease calculation
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Created by	Abdul Somad Zaini	Created Date	01/01/2014	Last Modified By	Abdul Somad Zaini	Last Modified Date	01/01/2014
Maintenance Basic Information							
Brand Code	Brand Name	Model Name					
Brand Code	Brand Name	Model Name					
Product Type	Product Category	Model Year (yyyy/mm)					
Product Type	Product Category	Model Year (yyyy/mm)					
Monthly Mileage (Km)	Usage	Lease Period (Months)					
Monthly Mileage (Km)	Usage	Lease Period (Months)					
Maintenance Condition & Cost							
Maintenance Type							
Periodic Maintenance	Oil Exchange	Exchange of Oil and Fats					
Periodic Maintenance	Remarks	Remarks	Rp 10.000.000				
Irregular Maintenance			Rp. 100.000				
Remarks							
Battery			Rp. 50.000.000				
Remarks							
Tire			Rp 50.000.000				
5000 Km							
Maintenance of Special OP Parts			Rp 10.000.000				
Remarks							
CSD			Rp. 40.000.000				
Remarks							
Maintenance of Others (1)			Rp. 40.000.000				
Remarks							
Maintenance of Others (2)			Rp. 40.000.000				
Remarks							
Maintenance of Others (3)			Rp. 40.000.000				
Remarks							
Total Maintenance Cost							
Rp. 40.000.000							
◀ Previous Step Save Changes Next Step ▶ To navigate the calculation data							

Image 23 – Screen of View Detail Operating Lease Calculation (Step 3)

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	06 Januari 2015
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Return back to list of operating lease calculation

A detail calculation data

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

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 Period Plan (yyyy/mm/dd)	End Period Plan (yyyy/mm/dd)	Lease Period Plan (Months)					
Start Period Plan (yyyy/mm/dd)	End Period Plan (yyyy/mm/dd)	Lease Period Plan (Months)					
Insurance Company	Insurance Agent	Coverage Period (Month + 1)	Rate of Mediator Fee (%)				
Insurance Company	Insurance Agent	Coverage Period (Month + 1)	Rate of Mediator Fee (%)				
Class of Insurance	Commission Rate (%)	Insurance of Payment Cycle	Region				
Class of Insurance	Commission Rate (%)	Insurance of Payment Cycle	Region				
Remarks							
Remarks							
Product							
Model Name	Product Type	Product Category	Model Year (yyyy/mm)				
Model Name	Product Type	Product Category	Model Year (yyyy/mm)				
Insurance Condition & Cost							
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			
			Net Premium				
			Rp	Net Premium			
To navigate the calculation data							
« Previous Step	Save Changes	Next Step »					

Image 24 – Screen of View Detail Operating Lease Calculation (Step 4)

Functional Specification: A.1 Marketing Module

Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	06 Januari 2015
Status	Baseline	Version	1.0
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Return back to list of operating lease calculation
A detail calculation data

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5 Step 5

Created by	Abdul Somad Zaini	Created Date	01/01/2014	Last Modified By	Abdul Somad Zaini	Last Modified Date	01/01/2014
Basic Information (Lease Fee)							
Start Period Plan (yyyy/mm/dd) Start Period Plan (yyyy/mm/dd)	End Period Plan (yyyy/mm/dd) End Period Plan (yyyy/mm/dd)	Lease Period Plan (Months) Lease Period Plan (Months)					
BAST Handover Schedule (yyyy/mm/dd) BAST Handover Schedule (yyyy/mm/dd)	Security Deposit Payment Yes	Security Deposit Amount Security Deposit Amount					
First Lease Payment (Days) First Lease Payment (Days)	Total Unit Quantity Lease Total Unit Quantity Lease	Special Case (Remarks) Special Case (Remarks)					
Setting Monthly Installment							
Monthly Installment Setting (%) Monthly Installment Setting (%)	Borrowing Rate (%) Borrowing Rate (%)	Spread of Interest Rate (%) Spread of Interest Rate (%)	Internal Interest Rate (%) Internal Interest Rate (%)				
Confirmation of Lease Cost							
Product Price	Rp	Vehicle Price	Quantity	Rp	Total		
Residual Value (-)	Rp	Residual Value (-)	Quantity	Rp	Total		
STNK Renewal Fee	Rp	STNK Renewal Fee	Quantity	Rp	Total		
Maintenance Cost	Rp	Maintenance Cost	Quantity	Rp	Total		
Replacement Cost Expense	Rp	Replacement Cost Expense	Quantity	Rp	Total		
Insurance Fee	Rp	Insurance Fee	Quantity	Rp	Total		
Mediator Fee	Rp	Mediator Fee	Quantity	Rp	Total		
Mobilization Fee	Rp	Mobilization Fee	Quantity	Rp	Total		
Demobilization Fee	Rp	Demobilization Fee	Quantity	Rp	Total		
Interest Expense	Rp	Interest Expense	Quantity	Rp	Total		
Interest Expense for Term of Payment	Rp	Interest Expense for Term of Payment	Quantity	Rp	Total		
Interest Expense Payment Before BAST	Rp	Interest Expense Payment Before BAST	Quantity	Rp	Total		
Total Cost	Rp	Total Cost	Quantity	Rp	Total		
Monthly Installment (DSF Standard)	Rp	Monthly Installment (DSF Standard)	Quantity	Rp	Total		
Profit Result							
Interest Rate (%)	Interest Rate (%)	Quantity	Rp	Total			
Spread (%)	Spread (%)	Quantity	Rp	Total			
Profits	Rp	Profits	Quantity	Rp	Total		
Insurance Commission	Rp	Insurance Commission	Quantity	Rp	Total		
Total Profit	Rp	Total Profit	Quantity	Rp	Total		
◀ Previous Step Save Changes Submit							
To navigate the calculation data							

Image 25 – Screen of View Detail Operating Lease Calculation (Step 5)

Functional Specification: A.1 Marketing Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	06 Januari 2015
Status	Baseline	Version	1.0
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2.3.5.5 Preview and print operating lease calculation

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.

(1) Harga Kendaraan			
A) Data Kendaraan	B) Data Karoseri	C) Data Aksesoris	D) Total Harga
Nama Kendaraan	Tipe Karoseri	Tipe Aksesoris	
Model Kendaraan			
Harga Kendaraan	Harga Karoseri	Harga Aksesoris	
Discount Dealer	Discount Supplier	Discount Supplier	
Discount ATPM			
Total Harga Kendaraan	Total Harga Karoseri	Total Harga Aksesoris	
(2) Financial Condition			
A) Borrowing Rate	B) Spread	C) Prime Rate	
(3) Syarat dan Kondisi Transaksi			
A) Periode Transaksi	B) COP Program (Y/N)	C) RV	D) DSF Standard RV
E) Maintenance	F) Insurance	G) Mediator Fee	H) Biaya Mobilisasi
Jenis Maintenance	Gross Premi	I) Biaya Demobilisasi	J) Replacement Car/bulan
	Komisi-Material	K) Adm Fee	L) Tarif STNK
Biaya Maintenance/bulan	Net Premi	M) Tarif KIR	
(4) Syarat & Kondisi Pembayaran Kendaraan			
% Estimasi DP Sebelum BAST	A) Kendaraan	B) Karoseri	C) Aksesoris
% Estimasi Pelunasan Sebelum BAST			
Jumlah hari dari Pmt DP ke BAST			
Jumlah hari dari Pelunasan ke BAST			
(5) Syarat & Kondisi Sewa Operating Lease			
Term of Payment Sewa			
Sewa Per Bulan			
Sewa Per Period			
(6) Proyeksi Income			
A) OPERATING LEASE			
Total Income			
Total Installment			
Adm Fee Income			
Insurance Income (asumsi LF: 10%)			
Total Income			
Biaya Overhead			
Harga Kendaraan			
Residual Value (-)			
Biaya Perpanjangan STNK			
Biaya Perpanjangan KIR			
Biaya Maintenance			
Biaya Mobil Pengganti			
Biaya Asuransi			
Mediator Fee			
Biaya Mobilisasi Unit			
Biaya Demobilisasi Unit			
Biaya Bunga			
Biaya Term of Payment			
Biaya Bunga untuk Pmt Kendaraan Sebelum BAST			
Total Biaya Overhead			
Income Setelah Biaya Overhead			

Image 26 – Screen of Operating Lease Calculation Report

Functional Specification: A.1 Marketing Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	06 Januari 2015
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2.3.5.6 Preview and print operating lease proposal

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.

Kepada :	Mr.Nishimura		
Dari :	NBD Dept. - Operating Lease Section		
Tanggal :			
No :			
Perihal :			
Dengan hormat, Mohon agar dapat disetujui penerbitan surat penawaran operating lease kepada:			
(1) Data Konsumen			
Nama	New or Repeat Customer		
Bidang Usaha	Lokasi / Tempat Usaha		
Nomor Telepon & Fax			
Data PIC Konsumen			
Nama	Nomor Telp / Handphone		
Jabatan	Alamat Email		
(3) Tanggal Deadline Pengiriman Penawaran			
Nama Kendaraan			
Model Kendaraan			
Harga Kendaraan			
Tujuan Penggunaan Kendaraan			
Total Kebutuhan Kendaraan			
Non or COP Program			
Residual Value			
DSF Standard Residual Value			
Jenis Maintenance			
Periode			
Sewa OPL / bulan			
Estimasi Profit Setelah Biaya Overhead			
Rasio Income Setelah Overhead OPL vs LF			
Lampiran Calculation Nomor			
Demikian Permohonan ini kami sampaikan, terimakasih			
Diajukan oleh,	Diketahui oleh,		
Delta Rianga	Abdul Somad Zaini	Asikin Lukman	S.Hosokawa
Disetujui Oleh,			
Jin Nishimura			

Image 30 – Screen of Preview and Print Operating Lease Calculation

Functional Specification: A.1 Marketing Module			
Project	Operating Lease Support System Development		
Author	Deny Prasetya	Date	06 Januari 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			
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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			
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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

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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.

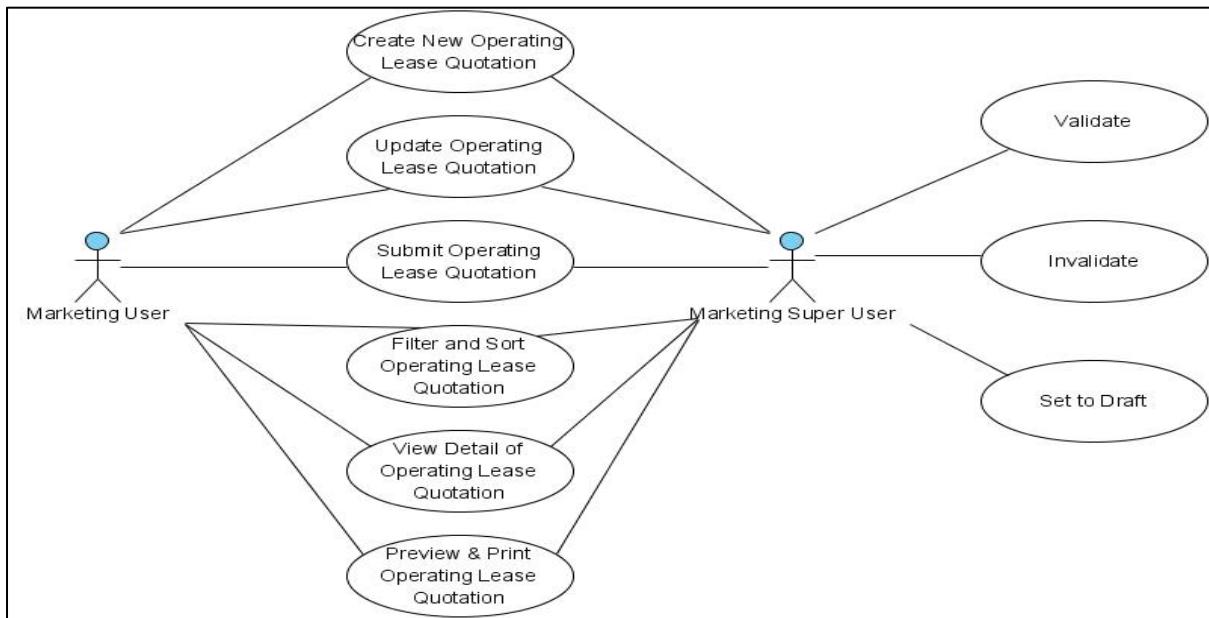


Figure 13 – Use case diagram of Operating Lease Quotation

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).

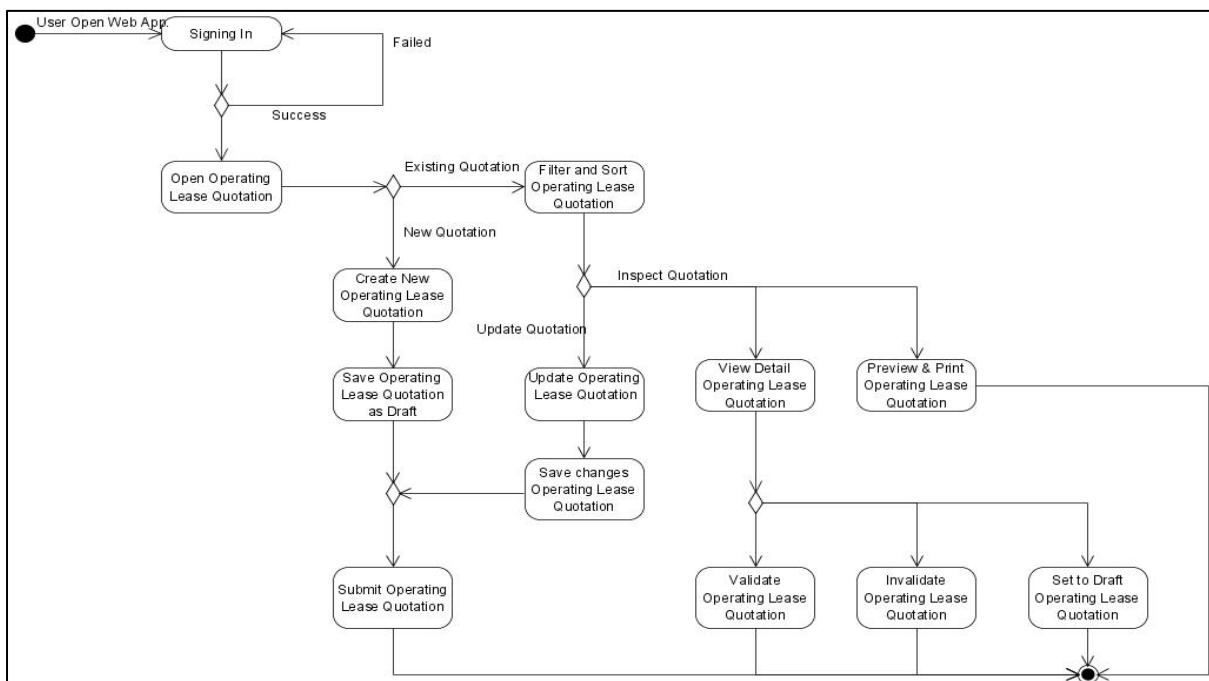


Figure 14 – Activity diagram of Operating Lease Quotation

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

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			<ul style="list-style-type: none"> open edit operating lease quotation 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 quotation records	Marketing user, Marketing super user	<ul style="list-style-type: none"> • Actor can filter and sort the record based on columns where displayed on the list. • To filter the records, actor can enter keywords into the filter fields. If matched data founds, the result will be displayed on the list. If doesn't, the list will be empty. • To sort the records, actor can click header of column on the list table. After that the records will be sorted by ascending or descending, alternately. • Upon select [Record number filter] drop down list, actor can filter a record number to display on the list. At least only one item can be selected.
8.	View detail operating lease quotation record	Marketing user, Marketing super user	<ul style="list-style-type: none"> • On the list of operating lease quotation screen actor can view detail an operating lease quotation on the view detail screen. • To open view detail screen, actor can click [View detail] button, after that system will display a detail of operating lease quotation. On this screen, actor cannot do anything to edit of data. Only viewing the record. • There are 2 conditions when view detail screen opens: <ul style="list-style-type: none"> 3) If the quotation status is still draft or 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.

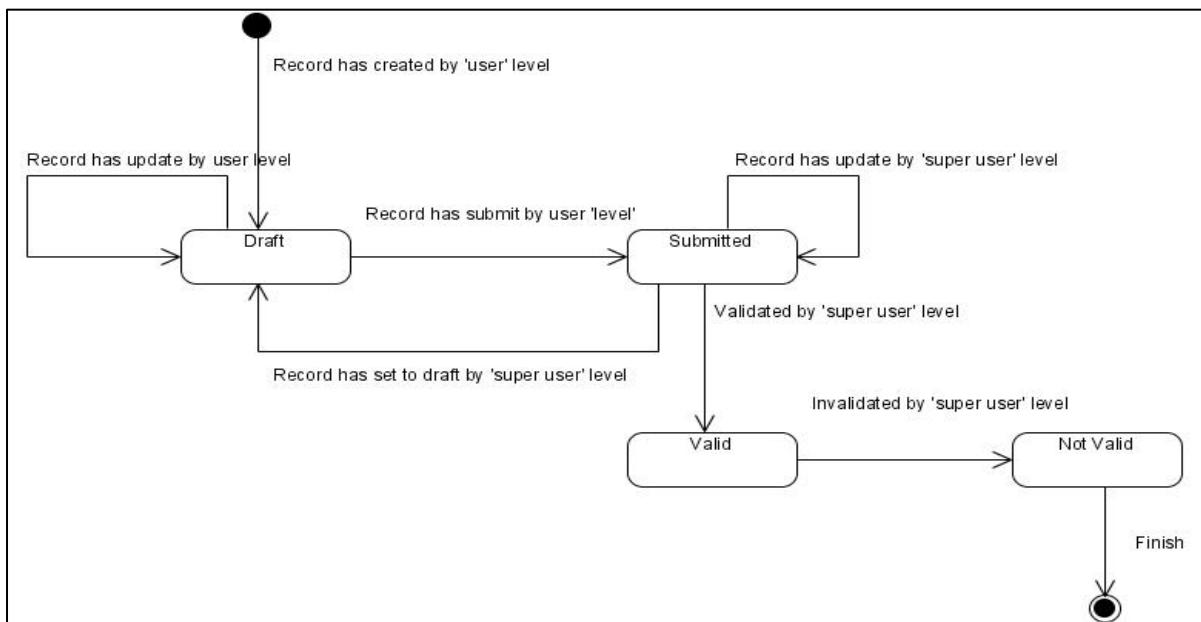


Figure 15 – Status diagram of Operating Lease Quotation

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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 the 'List of Operating Lease Quotation' screen. Several UI elements are annotated with red boxes and labels:

- + Create**: To create new records.
- List of Operating Lease Quotation**: To filter a number of record filter.
- Show 10 entries**: Displaying list.
- To filter records**: To filter records.
- To open edit or view detail records**: To open edit or view detail records.
- Search**: To filter records.
- Action**: Contains icons for edit, delete, and other actions.
- Showing 1 to 2 of 2 entries**: Data paging information.
- To open paging the records**: To open paging the records.
- First Previous 1 Next Last**: To open paging the records.

Registration Code	Maintenance Type	Insurance Company	Total Gross Premium	Commission Amount	Net Premium	Status	Action
Detail Example	04/06/89	21	Example Classification	Example Item	50000	valid	
Detail Example	04/06/89	21	Example Classification	Example Item	50000	submitted	

Image 31 – List of Operating Lease Quotation Screen

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2.4.5.2 Create new operating lease quotation

This screen is designed to create new operating lease 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 the 'Create New Operating Lease Quotation' screen. At the top left is a 'Back' button. To its right is a link 'Return back to list of operating lease quotation'. Further right is a link 'To entry a quotation data'. The main area is a large form divided into sections:

- OPL Calculation Number:** OPL Calculation Number, OPL Proposal Number
- OPL Quotation Number:** OPL Quotation Number, Customer Code, Customer Name, OPL Quotation Date (mm/dd/yyyy)
- Dates:** Start Period Plan (mm/dd/yyyy), End Period Plan (mm/dd/yyyy), Lease Period Plan (Months), Valid Until (mm/dd/yyyy)
- Basic Information (Product):** 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), Displacement.
- Quotation Information:** Monthly Rents, Down Payment, Pre-Paid Month Rent; Tax Amount, Expected Delivery Date (mm/dd/yyyy), Delivery Place.
- Additional Items:** Additional Items
- Remarks:** Remarks

At the bottom are two buttons: 'Save as Draft' and 'Submit'. A callout points to the 'Save as Draft' button with the text 'To save and navigate the quotation data'.

Image 32 – Screen of Create New Operating Lease Quotation Screen

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2.4.5.3 Update operating lease quotation

This screen is designed to update operating lease 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 operating lease quotation' screen. At the top left is a 'Back' button. To its right are links to 'Return back to list of operating lease quotation' and 'To entry a quotation data'. A green 'Valid' status indicator is located in the top right corner. The main area 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 these are fields for 'OPL Calculation Number' and 'OPL Proposal Number', both with 'Example' placeholder text. There are also fields for 'OPL Quotation Number', 'Customer Code', 'Customer Name', and 'OPL Quotation Date (mm/dd/yyyy)'. Further down are fields for 'Start Period Plan (mm/dd/yyyy)', 'End Period Plan (mm/dd/yyyy)', 'Lease Period Plan (Months)', and 'Valid Until (mm/dd/yyyy)'. The next section, 'Basic Information (Product)', includes fields for 'Product Registration Code', 'Product Type', 'Product Category', 'Product Brand Code', 'Product Brand Name', 'Product Model Code', 'Product Model Name', 'Product Model Type', 'Product Model Year (yyyy/mm)', 'Transmission', 'Fuel Type', and 'Displacement (CC)'. The 'Quotation Information' section contains fields for 'Monthly Rents', 'Down Payment', 'Pre-Paid Month Rent', 'Tax Amount', 'Expected Delivery Date (mm/dd/yyyy)', 'Delivery Place', 'Additional Items', and 'Remarks'. At the bottom are 'Save as Draft' and 'Submit' buttons, with a note below them stating 'To save and navigate the calculation data'.

Image 33 – Screen of Update Operating Lease Quotation Screen

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2.4.5.4 View detail operating lease quotation

This screen is designed to view detail operating lease quotation. On this screen 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: 'Back' (with a red box), 'Return back to list of operating lease calculation' (with a red box), and 'To entry a calculation data' (with a red box). A green 'Valid' button is also present. The main area contains several sections of data:

- Header Information:** Includes fields for Created by (Abdul Somad Zaini), Created Date (01/01/2014), Last Modified By (Abdul Somad Zaini), and Last Modified Date (01/01/2014).
- Lease Details:** Fields include OPL Calculation Number, OPL Proposal Number, OPL Quotation Number, Customer Code, Customer Name, OPL Quotation Date (mm/dd/yyyy), Start Period Plan (mm/dd/yyyy), End Period Plan (mm/dd/yyyy), Lease Period Plan (Months), Valid Until (mm/dd/yyyy), and Lease Period Plan (Months).
- Basic Information (Product):** Fields include 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), Product Model Year (yyyy/mm), Transmission, Fuel Type, Displacement (CC), and Displacement (CC).
- Quotation Information:** Fields include Monthly Rents, Down Payment, Pre-Paid Month Rent, Pre-Paid Month Rent, Tax Amount, Expected Delivery Date (mm/dd/yyyy), Delivery Place, Delivery Place, Additional Items, Remarks, and Remarks.
- Action Buttons:** At the bottom left are 'Save as Draft' and 'Submit' buttons. To the right of these buttons is a red box containing the text 'To save and navigate the calculation data'.

Image 34 – Screen of View Detail Operating Lease Quotation

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2.4.5.5 Preview and print operating lease quotation

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



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

Car Lease Quotation To: _____	Date 05/06/2014		
We thank you for requesting a quotation us and submit followings for your consideration and approval.			
Validity: Within one month after the date. Monthly Rent would be changed due to various factors. (I.e. price, tax, interest rate, etc.)			
(1) Description of the Leased Property (Vehicle)			
Manufacture / Name			
Grade			
Model Code	Displacement		
Transmission	Engine		
Color	Passengers		
Accessories and Option	Payload		
	Type Karoseri		
	Residual Value		
	New / Used		
(2) Term			
(4) Monthly Kilometer	(3) Expected Delivery Date		
(5) Monthly Rent			
Down Payment	Pre-paid Months Rent		
Payment			
(6) Delivery Place			
(7) Type of Lease Agreement			
Finance Items	Additional Items		
<input type="radio"/>	Cost of Vehicle	<input type="radio"/>	Spare Car for inspection over 24 hours except accident
<input type="radio"/>	Accessories and Options	<input type="radio"/>	Spare Car for repairing in case of accident
<input type="radio"/>	Registration Charges	<input type="radio"/>	Roadside Assistance
<input type="radio"/>	Annual Tax	<input type="radio"/>	Emergency Telephone Services
<input type="radio"/>	Compulsory Third Party Insurance (See Below)		Remarks
Maintenance Item			
<input type="radio"/>	Schedule Check		
<input type="radio"/>	Parts Change		
<input type="radio"/>	Oil Change		
<input type="radio"/>	Battery Changes		
<input type="radio"/>	Tire Changes		
(8) Comprehensive Motor Insurance			
<input type="radio"/>	Third Party Liability (Bodily Injury or Death of Person)	IDR	Each Person
<input type="radio"/>	Third Party Liability (Property Damage)	IDR	Each Accident
<input type="radio"/>	Personal Accident (Death) - Driver 1 Person	IDR	
<input type="radio"/>	Personal Accident (Death) - Passenger	IDR	Each Person
<input type="radio"/>	Medical Expense	IDR	Each Person
<input type="radio"/>	Bail Bond	IDR	Each Person
<input type="radio"/>	Automobile Sum Insured (Damage on the Vehicle by collision, fire and theft)		
Remark			
(9) Remarks			
We will be happy to supply any further information you may need and trust that you call on us to fill your order, which will receive our prompt and careful attention.			
PT.Dipo Star Finance		PT.Dipo Star Finance	

Image 35 – Screen of Preview and Print Operating Lease Quotation Screen

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2.4.6 Screen features

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

2.4.7 Data structure

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

Functional Specification: A.1 Marketing Module				
Project	Operating Lease Support System Development			
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Start Period Plan	Date	N/A	mm-dd-yyyy	No
End Period Plan	Date	N/A	mm-dd-yyyy	No
Lease Period Plan	Number	N/A	N/A	No
Terms	Text	200	N/A	No
Expected Delivery Date	Date	N/A	mm-dd-yyyy	No
Delivery Place	Text	100	N/A	No
Monthly Rents	Decimal	18,3	###,###,##.##	No
Down Payment	Decimal	18,3	###,###,##.##	No
Pre-Paid Month Rent	Decimal	18,3	###,###,##.##	No
Payment Amount	Decimal	18,3	###,###,##.##	No
Tax Amount	Decimal	18,3	###,###,##.##	No
Additional Items	Text	200	N/A	No
Remarks	Text	200	N/A	No
Audit Rail				
Create By	Text	100	N/A	Yes
Create Date	Date time	N/A	mm-dd-yyyy:hh-mm:ss	No
Last Modified By	Text	100	N/A	Yes
Last Modified	Date time	N/A	mm-dd-yyyy:hh-mm:ss	No
Status Management				
Is Deleted	Yes/No	N/A	N/A	Yes
Is Draft	Yes/No	N/A	N/A	Yes
Is Submitted	Yes/No	N/A	N/A	Yes
Is Valid	Yes/No	N/A	N/A	Yes

Functional Specification: A.1 Marketing Module			
Project	Operating Lease Support System Development		
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2.5 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.

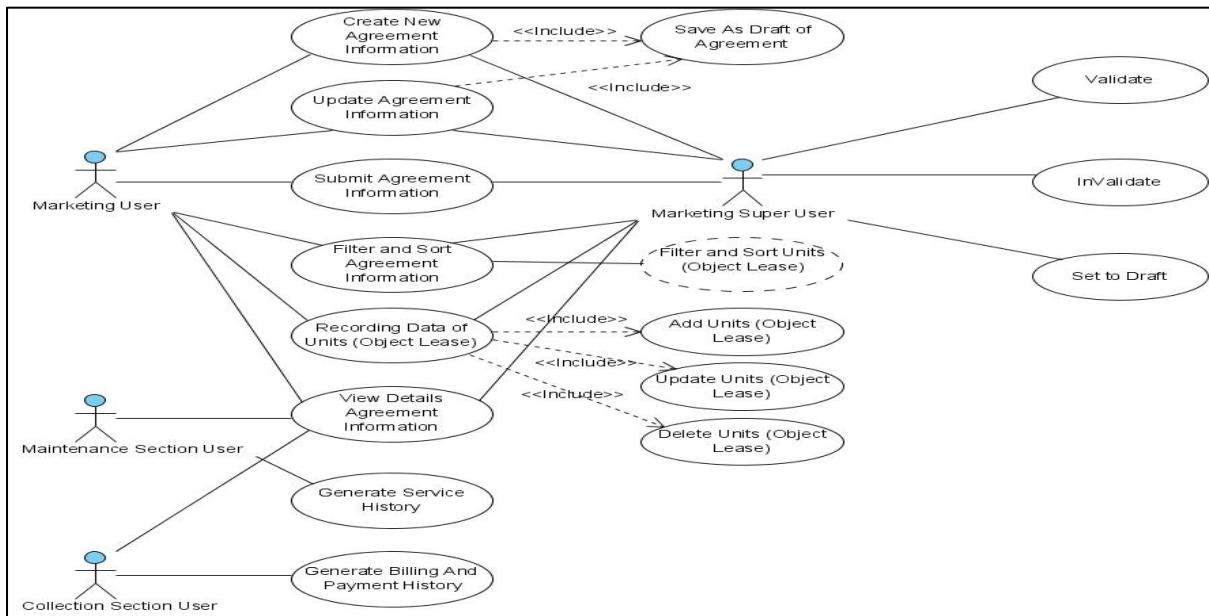


Figure 17 – Use case diagram of Agreement Information Inquiry

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).

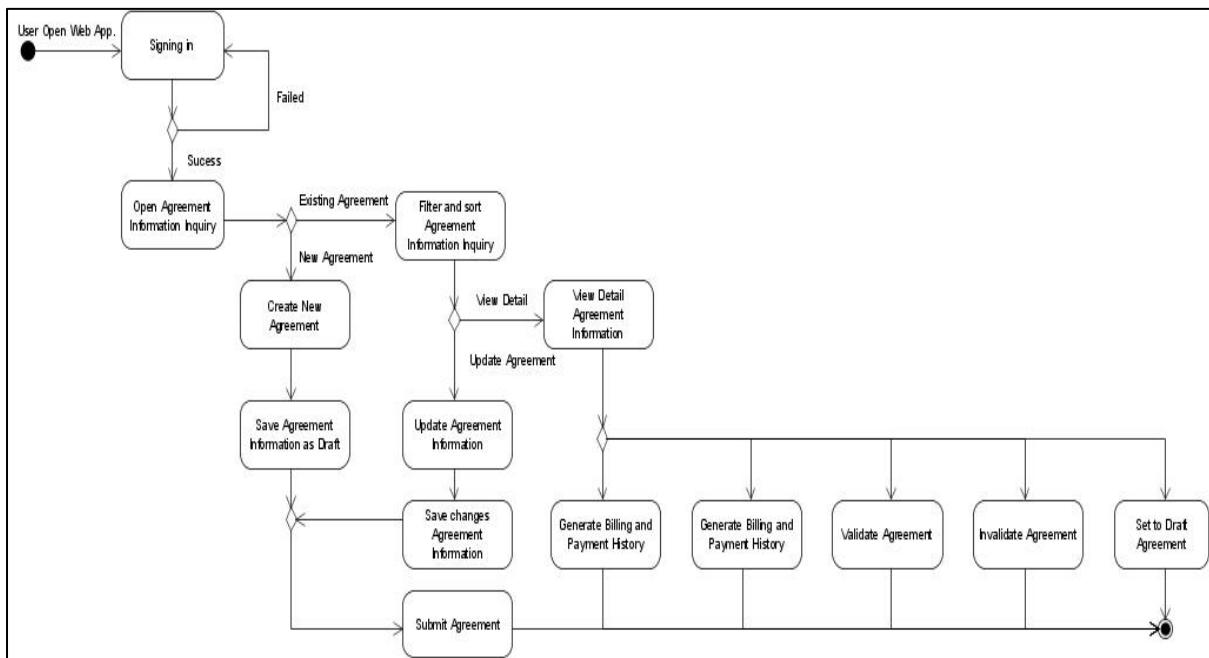


Figure 18 – Activity diagram of Agreement Information Inquiry

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

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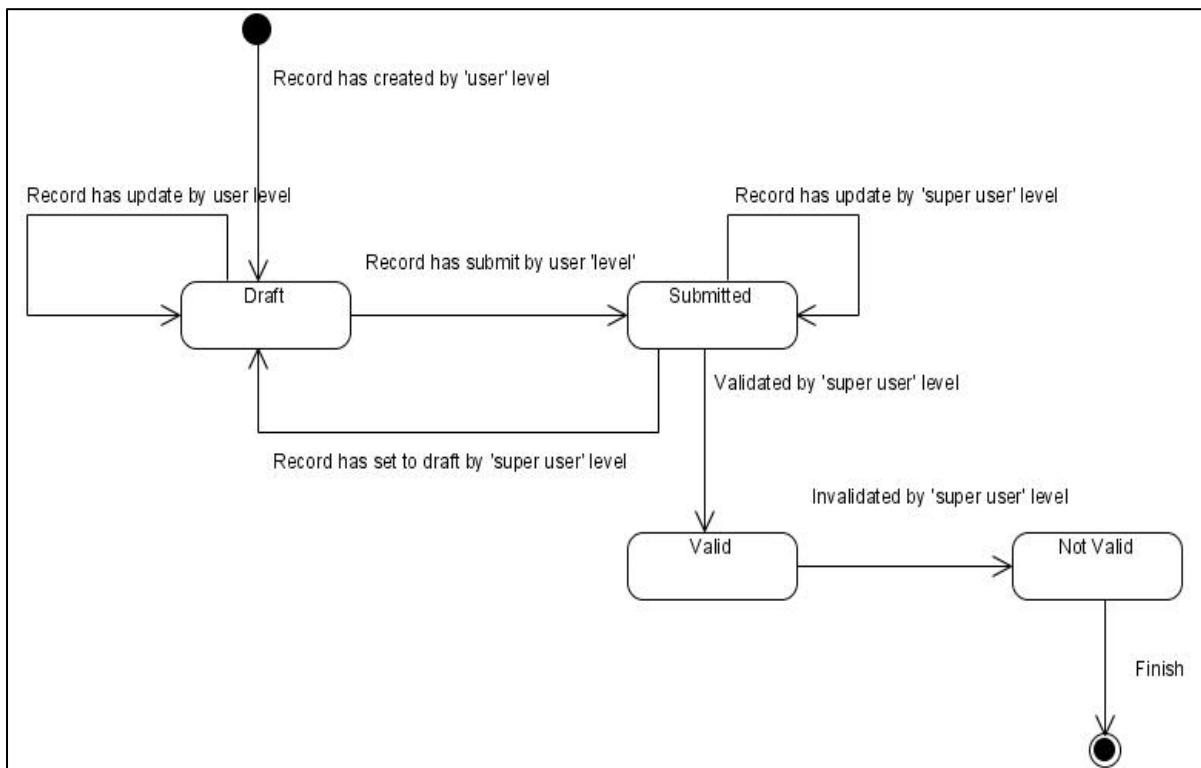


Figure 19 – Status diagram of Operating Lease Agreement

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.

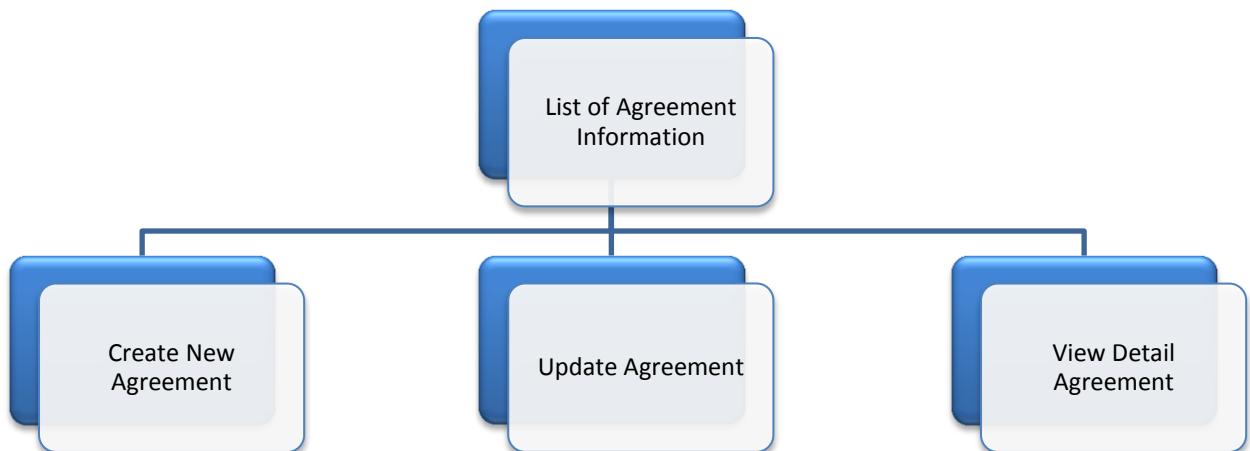


Figure 20 – Sitemap design of Operating lease agreement

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

Agreement list							
Agreement Number	Agreement Date	Customer Name	Brand Name	Model Name	Expired Date	Status	Action
00010/OAN/01/11/2014	10/10/2014	PT. KRM	Pajero	Exceed	10/10/2015	Valid	Details
00009/OAN/01/11/2014	11/01/2014	PT. KRM	Mirage	Exceed	11/01/2015	Valid	Details
00008/OAN/01/11/2014	10/10/2014	PT. KRM	Pajero	Exceed	10/10/2015	Valid	Details
00007/OAN/01/11/2014	11/01/2014	PT. KRM	Mirage	Exceed	11/01/2015	Valid	Details
00006/OAN/01/11/2014	10/10/2014	PT. KRM	Pajero	Exceed	10/10/2015	Valid	Details
00005/OAN/01/11/2014	11/01/2014	PT. KRM	Mirage	Exceed	11/01/2015	Valid	Details
00004/OAN/01/11/2014	10/10/2014	PT. KRM	Pajero	Exceed	10/10/2015	Valid	Details
00003/OAN/01/11/2014	11/01/2014	PT. KRM	Mirage	Exceed	11/01/2015	Valid	Details
00002/OAN/01/11/2014	10/10/2014	PT. KRM	Pajero	Exceed	10/10/2015	Valid	Details
00001/OAN/01/11/2014	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

Image 36 – 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	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)		
Payment Condition							
Lease Category	Lease Category	Insurance	Yes	Purchase Required	Purchase Required	Payment Transaction	Transfer
First Due Date of Usage Unit	(mm/dd/yyyy)	Due Date of First Payment (mm/dd/yyyy)	(mm/dd/yyyy)	Term of Payment (Days)	(Days)	Issue of Invoices Date (mm/dd/yyyy)	(mm/dd/yyyy)
Monthly Inst.	Rp.	Deposit Amount	Rp.	Number of Payment (Numbers)	1	Deposit Payment Date (mm/dd/yyyy)	(mm/dd/yyyy)
Deposit Return Date	(mm/dd/yyyy)	Interest Penalty (%)	Interest Penalty (%)				
Maintenance Condition							
Product Registration Code	Product Registration Code	Product Brand	Product Model	Product Brand	Model Year (yyyy/ mm)	Model Year	
Maintenance type	Maintenance Type	Usage	Accessories	Yes	Carroserie	Yes	
Contract Mileage (per Months)	Contract Mileage	Actual Mileage (per Months)	Actual Mileage	Regular Maint. (KM/ Months)	Regular Main.(Km)	Lubricants, Fats (KM/ Months)	Lubricants, Fats
Battery Change	Battery Change	Tire Change	Tire Change	Customer Service Desk (CSD)	Cust. Serv. Desk (CSD)	General/ Others Maintenance	Yes
STNK Renewal	Yes	STNK Renewal Date Sched. (mm/dd/yyyy)	(mm/dd/yyyy)	KEUR Renewal	Yes	KEUR Renewal Date Sched. (mm/dd/yyyy)	(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					

Image 37 – Screen of Agreement Information Inquiry List

Functional Specification: A.1 Marketing Module

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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																																	
<input type="text"/> Quotation Number <input type="text"/> Agreement Number <input type="text"/> Prev. Agree. Number <input type="text"/> Prev. Agree. Number <input type="text"/> Agreement Date (mm/dd/yyyy) To entry a quotation data																																	
Sales PIC Name <input type="text"/>		Sales PIC Position <input type="text"/>		Sales PIC Phone <input type="text"/>		Sales PIC Position <input type="text"/>		Sales PIC Email <input type="text"/>																									
Customer Name <input type="text"/>		Contract Start Date (mm/dd/yyyy) <input type="text"/>		Contract Expired Date (mm/dd/yyyy) <input type="text"/>		Lease Period (Months) <input type="text"/>		Lease Period (Months) <input type="text"/>																									
Payment Condition																																	
Lease Category <input type="text"/>		Insurance Yes <input type="checkbox"/>		Purchase Required <input type="checkbox"/>		Payment Transaction Transfer <input type="checkbox"/>																											
First Due Date of Usage Unit (mm/dd/yyyy) <input type="text"/>		Due Date of First Payment (mm/dd/yyyy) <input type="text"/>		Term of Payment (Days) <input type="text"/>		Issue of Invoices Date (mm/dd/yyyy) <input type="text"/>																											
Monthly Inst. Rp. <input type="text"/>		Deposit Amount Rp. <input type="text"/>		Number of Payment (Numbers) 1 <input type="text"/>		Deposit Payment Date (mm/dd/yyyy) <input type="text"/>																											
Deposit Return Date (mm/dd/yyyy) <input type="text"/>		Interest Penalty (%) <input type="text"/>																															
Maintenance Condition																																	
Product Registration Code <input type="text"/>		Product Brand <input type="text"/>		Product Model <input type="text"/>		Product Brand <input type="text"/>		Model Year (yyyy/ mm) <input type="text"/> Model Year <input type="text"/>																									
Maintenance Type <input type="text"/>		Usage <input type="text"/>		Accessories Yes <input type="checkbox"/>		Carrosserie Yes <input type="checkbox"/>																											
Contract Mileage (per Months) <input type="text"/>		Actual Mileage (per Months) <input type="text"/>		Regular Maint. (KM/ Months) <input type="text"/>		Lubricants, Fats (KM/ Months) <input type="text"/>		Lubricants, Fats <input type="text"/>																									
Batery Change <input type="text"/>		Tire Change <input type="text"/>		Customer Service Desk (CSD) <input type="text"/>		Cust. Serv. Desk (CSD) <input type="text"/>		General/ Others Maintenance Yes <input type="checkbox"/>																									
STNK Renewal Yes <input type="checkbox"/>		STNK Renewal Date Sched. (mm/dd/yyyy) <input type="text"/>		KEUR Renewal Yes <input type="checkbox"/>		KEUR Renewal Date Sched. (mm/dd/yyyy) <input type="text"/>																											
Break Down Special Contract Yes <input type="checkbox"/>		Break Down Special Contract Remarks <input type="text"/>		Replacement Unit Yes <input type="checkbox"/>		Replacement Unit Remarks <input type="text"/>																											
List of Unit (Object Lease)																																	
<input type="button" value="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>Carroserie/ 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	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
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 <input type="text"/>		Data paging information <input type="text"/>		To open paging the records <input type="text"/>		First <input type="button"/> Previous <input type="button"/> 1 <input type="button"/> 2 <input type="button"/> Next <input type="button"/> Last <input type="button"/>																											
<input type="button" value="Save as Draft"/> <input type="button" value="Submit"/> To save and navigate the quotation data																																	

Image 38 – Screen of Update Agreement Information

Functional Specification: A.1 Marketing Module

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

Image 39 – Screen of Details Agreement Information

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2.5.6 Screen features

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

2.5.7 Data structure

Field	Data Type	Data Length	Format	Mandatory
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

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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

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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)
- (i) **A use case is** a formal way of representing how a business interacts with its environment. it summarized into a single picture. (<http://romisatriawahono.net/lecture/sad/romi-sad-05-implementation-march2014.pptx>)

What are Benefits of use cases?

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

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

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

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

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

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3.2 Calculation Formula

=> Calculation of Refinance:

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

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

=> Calculation of Operating Lease:

1. Step2 - Financial Condition:
 - o Prime Rate Effective
[Borrowing Rate Effective] + [Spread Rate Effective]
 - o Rate Flat
(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 arrears
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 Product Price
[Sum Up (Total 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] * [Product Price]*[Unit Quantity]
 - o STNK & KEUR Renewal Cost
[STNK Renewal Cost] + [KEUR Renewal Cost]*[Unit Quantity]
 - o Replacement Unit Cost
([Replacement Unit]*[Lease Period Plan]*[Unit Quantity]) + ([KEUR Renewal Cost]*[Lease Period Plan]*[Unit Quantity])

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- 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
 $PMT([Borrowing Rate Eff.]/12,[Lease Period Plan], - (\text{Total Product Price} + \text{Accessories Price} + \text{Carroserie Price}), 0, [\text{payment type}]) * [\text{Lease Period Plan}] - (\text{Total Product Price} + \text{Accessories Price} + \text{Carroserie Price})$
- Depreciations
(Total Product Price + Accessories Price + Carroserie Price) - ((Total Product Price + Accessories Price + Carroserie Price) * [RV Rate])
- 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)
- Interest Cost Payment Settlement Accessories
[Accessories Price]* [PS Percent To BAST] * [Payment Settlement Period to BAST] * (Borrowing Rate Flat/ 360)
- Interest Cost DP Carroserie
[Carroserie Price]* [DP Percent To BAST] * [DP Period to BAST] * (Borrowing Rate Flat/ 360)

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360)

- Interest Cost Payment Settlement Carroserie
[Accessories Price]* [PS Percent To BAST] * [Payment Settlement Period to BAST] *
(Borrowing Rate Flat/ 360)
- Monthly Installment OPL
([Ratio * TotalCost] + Total Cost) / [Lease Period Plan]
- Insurance Income Cost
[Gross Premium] - [Commission]
- **Total Cost**
(Total Product Price + Accessories Price + Carroserie Price) - ResidualValueAmount +
[STNK & KEUR Renewal Cost]+ [Maintenance Cost] + [Replacement Unit Cost] +
[Insurance Cost] + [Mediator Fee Cost] + [Mobilizations Cost] + [Demobilizations Cost] +
[Interest Cost] + [Interest Cost for TOP] + [Interest Cost for Payment Before BAST]

- **Monthly Installment OPL**
([Ratio * Total Cost] + Total Cost) / [Lease Period Plan]
- Interest Income
(Total Product Price + Accessories Price + Carroserie Price) * [Spread Rate Flat] * ([Lease Period Plan]/12)
- Net Income LF
[Interest Cost] + [Interest Income] + (Total Product Price + Accessories Price + Carroserie Price) + [Admin Fee] + ([Rate Insurance Income] * [Insurance Gross Premium])

- **Total Profit**
[Monthly Installment] * [Lease Period Plan]