



PT. BERLIAN SISTEM INFORMASI



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OPERATING LEASE SUPPORT SYSTEM DEVELOPMENT

FOR



Functional Specification USER AND ROLE MANAGEMENT

Revision 2.0

Prepared by:

PT. Berlian Sistem Informasi

KTB Annex Bld. 4th Floor, Jl. Jend. A. Yani. Pulomas,
Tel. +62 21 4786 7575 (Hunting) Fax. +62 21 4714964 www.bsi.co.id

Functional Specification: User And Role Management

Project	Operating Lease Support System Development		
Author	Achmad Fardani Rizki	Date	10 Juni 2015
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Distribution List

Name	Organization	Title
Mr. Ahmad Fikri	Dipo Star Finance, PT	DSF ITD Head
Mr. Deni Kusumah	Dipo Star Finance, PT	DSF ITD
Mr. Mukhlis Ibrahim	Dipo Star Finance, PT	DSF ITD
Mr. Delta Riangga	Dipo Star Finance, PT	DSF Project Manager
Mr. Feri Irawan	Berlian Sistem Informasi, PT	BSI Multifinance Division Head
Mr. Asra Haryadi	Berlian Sistem Informasi, PT	BSI Operation Unit Manager
Mr. Devilosa Indra Kamal	Berlian Sistem Informasi, PT	BSI Service Manager

Document Approval

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

Role	Name	Signature	Date
DSF ITD Head	Mr. Ahmad Fikri		30/6/2015
DSF ITD	Mr. Deni Kusumah		20-6-2015
DSF ITD	Mr. Mukhlis Ibrahim		20/06/2015
BSI Operation Unit Manager	Mr. Asra Haryadi		11/06/2015
BSI Service Manager	Mr. Devilosa Indra Kamal		11/06/2015

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1 Introduction

1.1 Purpose

Functional specification is to explain some of the following:

- 1) Describe who uses the 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

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

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

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

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

The following is functionality of user management module:

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

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

- b. Edit role record.

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

- c. Submit role record.

To submit a role records by click event.

- d. Filter and sort role record

To perform data filter and data sort of role records.

- e. View detail role record

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

- f. Changes status of role record

To update status of role record by click events.

✓ Permission

- a. Reload function.

To update the list of function from each module by click events.

- b. Edit alias name.

To set alias name of function from each module, the alias name will be shown as assign permission a column name on role module.

- c. Activate permission.

To update status of permission record by click events.

1.3 Acronyms and abbreviations

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

1.4 References

[N/A]

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2 Detail Specification

2.1 User

2.1.1 Use case

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

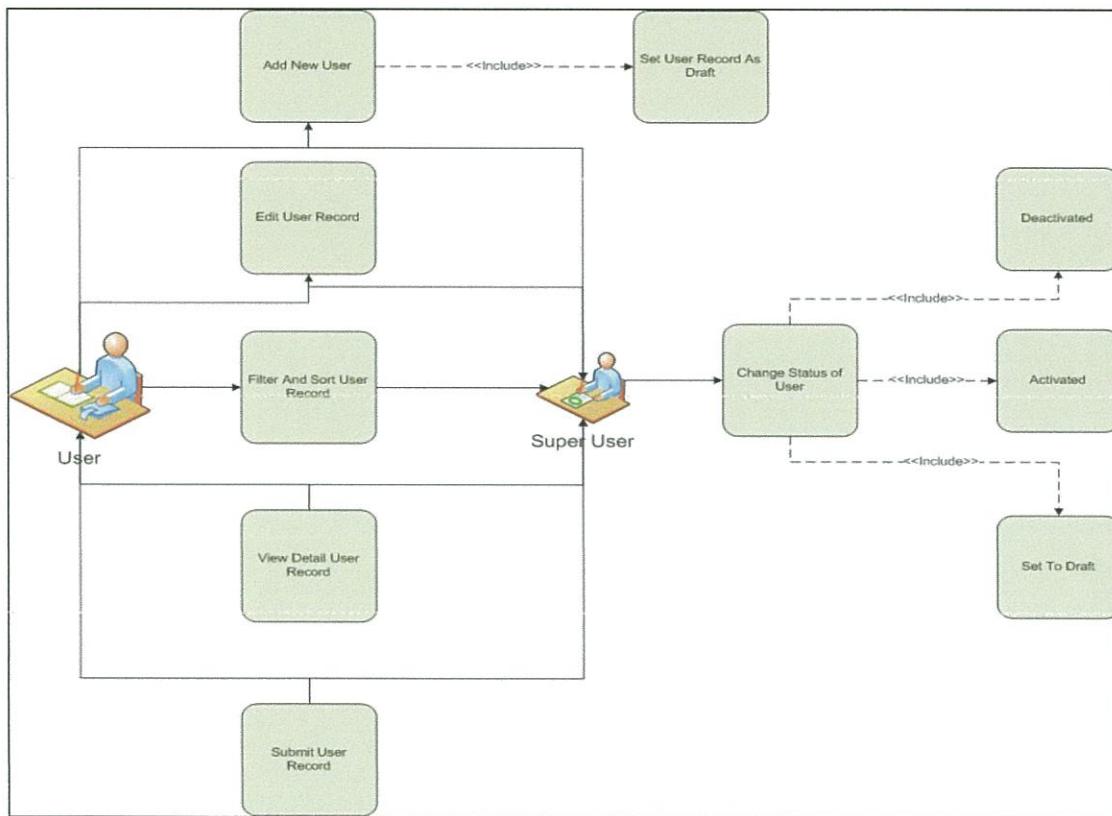


Figure 1 – Use case diagram of User Management

2.1.2 Operations and scenarios

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

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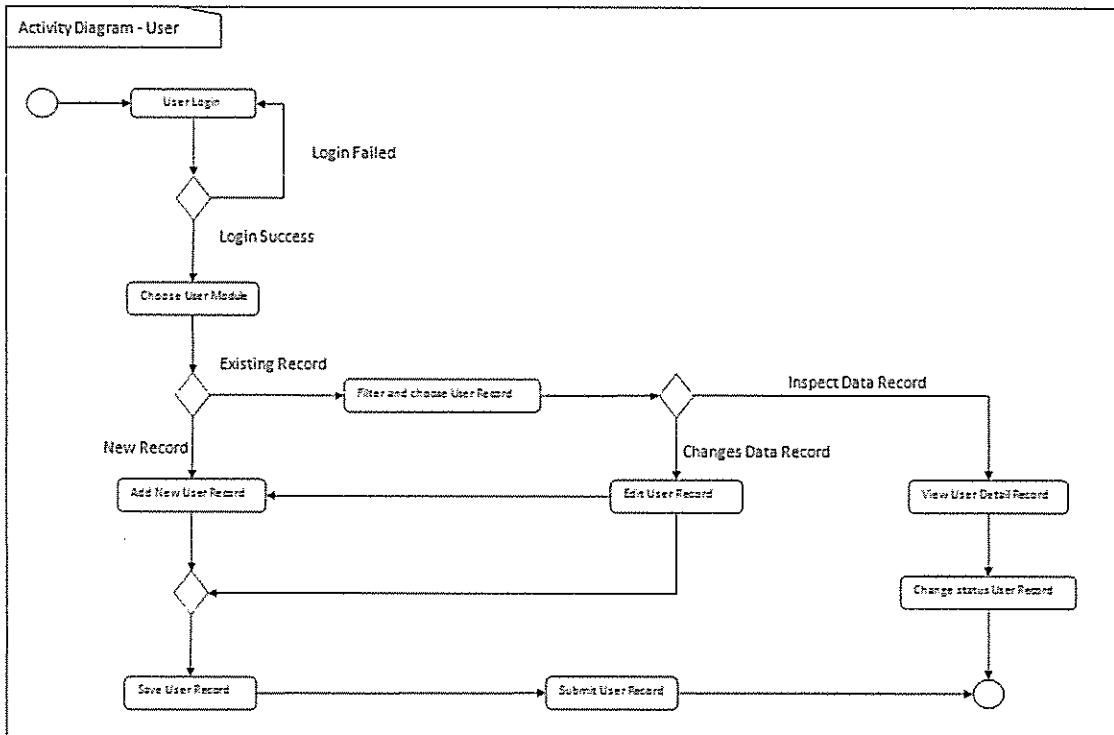


Figure 2 – Activity diagram of User Management

No.	Steps/ Operations	Actor/ People	Scenario
1	Login	System Admin, ITD User	<ul style="list-style-type: none"> Actor fills out login form by inputting user name and password. Actor clicks [sign in] button. System will check the account of user; if actor account is already registered user will enter into the system. If doesn't user can return the step.
2.	Choose User module	System Admin, ITD User	<ul style="list-style-type: none"> After login, actor can choose user module on the menu of system. After that, screen of user information will be opens. After user screen opens, user list will be shown and existing user data will be displayed.
3.	Add new user	System Admin, ITD User	<ul style="list-style-type: none"> If user information screen opens, actor can click [add] button to add new records of user, and after that add new user screen will be opens. Upon add new user screen, actor fill out the fields. The mandatory fields cannot be blanks.
4.	Save user record	System Admin, ITD User	<ul style="list-style-type: none"> After fill out the fields, actor can click [save as draft] button, if want to make a records as <u>draft</u>. After that, system will proceed to store a data into database and will be automatically check a validation of data (such like; data type, mandatory data, and data length) If done, actor can click back button to return to the user list, then user data will be displayed.
5	Submit user record	System	<ul style="list-style-type: none"> Once data is saved and data has been confirmed,

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		Admin, ITD User	<ul style="list-style-type: none"> actor can submit the record by click [submit] button. After that system will set a user record as <u>submitted (or not draft)</u>. If done, actor can click back button to return to the customer list.
6.	Filter and sort user records	System Admin, ITD User	<ul style="list-style-type: none"> Actor can then filter and sort the user record based on columns where displayed on the user list. To filter user records, actor can enter keywords into the filter fields. After that press enter on the keyboards. If data founds, the result will be displayed on the customer list. If doesn't customer list will be blanks. To sort user records, actor can click header of column on the list table. After that the records will be sorted by ascending or descending, alternately.
7.	Edit user records	System Admin, ITD User	<ul style="list-style-type: none"> On the user information screen actor can open edit user screen to edit some kinds of data. To edit data of user and if edit user screen opens, actor can edit a record by inputting a data on each of the fields. The mandatory fields cannot be blanks.
8.	View detail user record	System Admin, ITD User	<ul style="list-style-type: none"> On the user information screen actor can open view detail user screen to inspect a data. To view detail user record, click [view detail] button, after that system will displayed a screen of view detail user. On this screen, actor cannot do something to edit of data. Only view detail of user record.
9	Change status of user record	System Admin, ITD User	<ul style="list-style-type: none"> If view detail user screen opens, actor can change the status of user by click of [activated] button or [deactivated] button (depending by status that needs to change). If data should be edited by actor, then records can be [set to draft] After that, system will proceed automatically to change the status. If status of user record is <u>active</u>, then [deactivated] will be visible. And opposite that, if status of customer record is <u>inactive</u>, then [activated] will be visible. In short, one of them will be visible or invisible. If done, actor can click back button to return to the deactivated list.

2.1.3 Sitemap design

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

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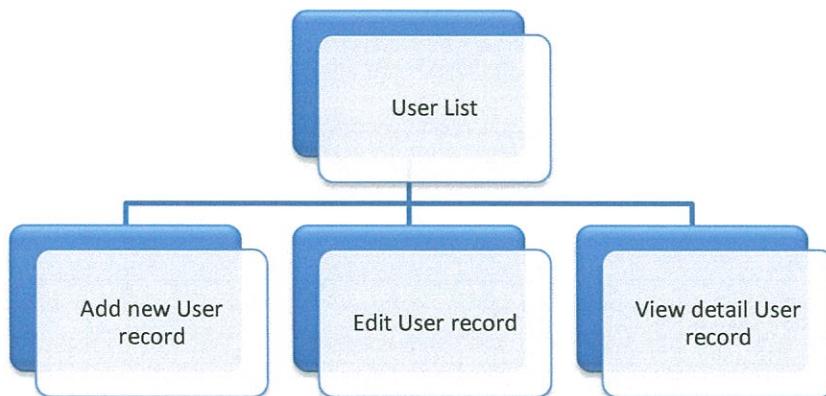


Figure 3 – Sitemap design of customer information page

2.1.4 Screen design

2.1.4.1 User

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

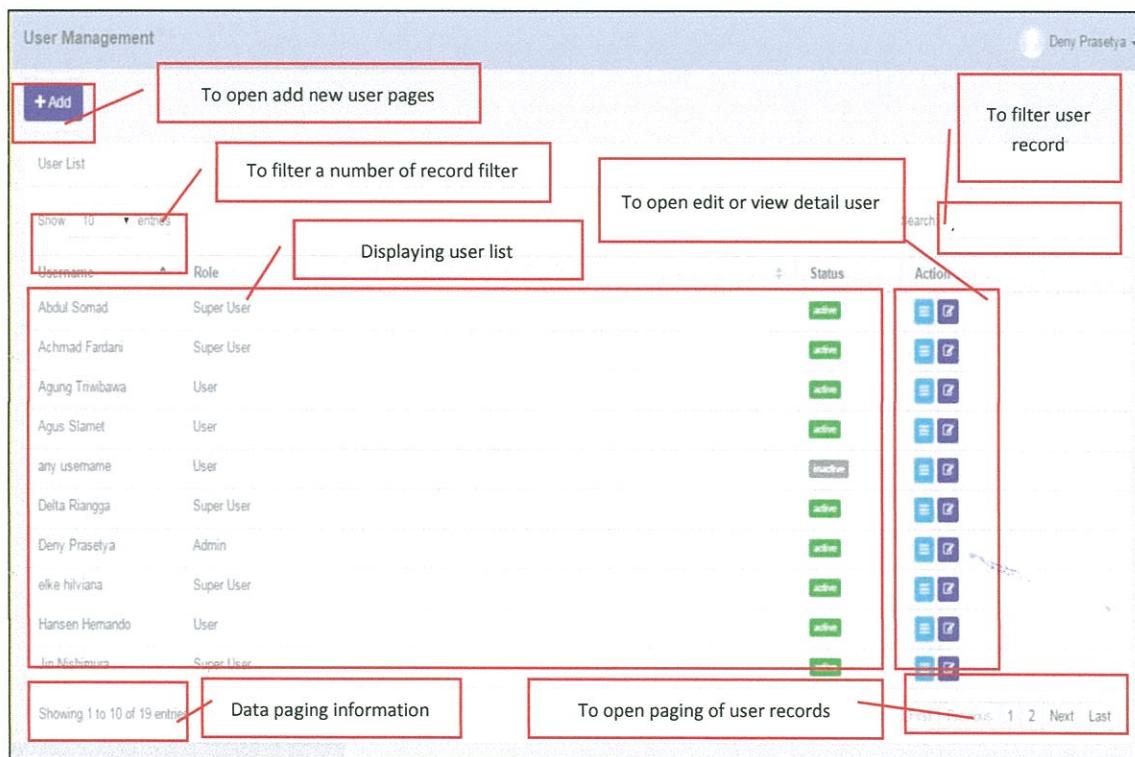


Image 1 – Screen of User Information

2.1.4.2 Add new user record

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

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Image 2 – Screen of add new User record

2.1.4.3 Edit User record

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

Image 3 – Screen of edit customer record

2.1.4.4 View detail user record

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

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The screenshot shows a user detail interface. At the top, there's a navigation bar with 'User Detail', 'Back', 'Return back to user list', 'History of data', 'Status of user record', and a dropdown for 'Achmad Fardani'. Below this, there are status bars for 'Created by' (Achmad Fardani), 'Created Date' (06/04/2015), 'Last Modified By' (Achmad Fardani), and 'Last Modified Date' (06/04/2015). The main area is titled 'Detail User' and contains fields for 'Username' (DIPOSTARA), 'Remarks' (ADMIN), and 'Role'. A large red box labeled 'Detail information of user' covers the entire content of this section. At the bottom, there's a blue 'Activate' button and a red box labeled 'To activate data' covering the area below it.

Image 4 – Screen of view detail user record

2.1.5 Screen features

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

2.1.6 Data structure

Field	Data Type	Mandatory
IdUser	int	Yes
UserName	varchar	Yes
Password	varchar	No
Remarks	varchar	No
CreateDate	datetime	Yes
CreateBy	varchar	Yes
LastModified	datetime	Yes
LastModifiedBy	varchar	Yes
Status	varchar	Yes
IsDraft	bit	Yes

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LastModifiedBy	string	No
Email	string	No
EmailConfirmed	boolean	No
PasswordHash	string	No
SecurityStamp	string	No
PhoneNumber	string	No
PhoneNumberConfirmed	boolean	No
TwoFactorEnabled	boolean	No
LockoutEndDateUtc	datetime	No
LockoutEnabled	boolean	No
AccessFailedCount	int	No
UserName	string	Yes

2.2 Role

2.2.1 Use case

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

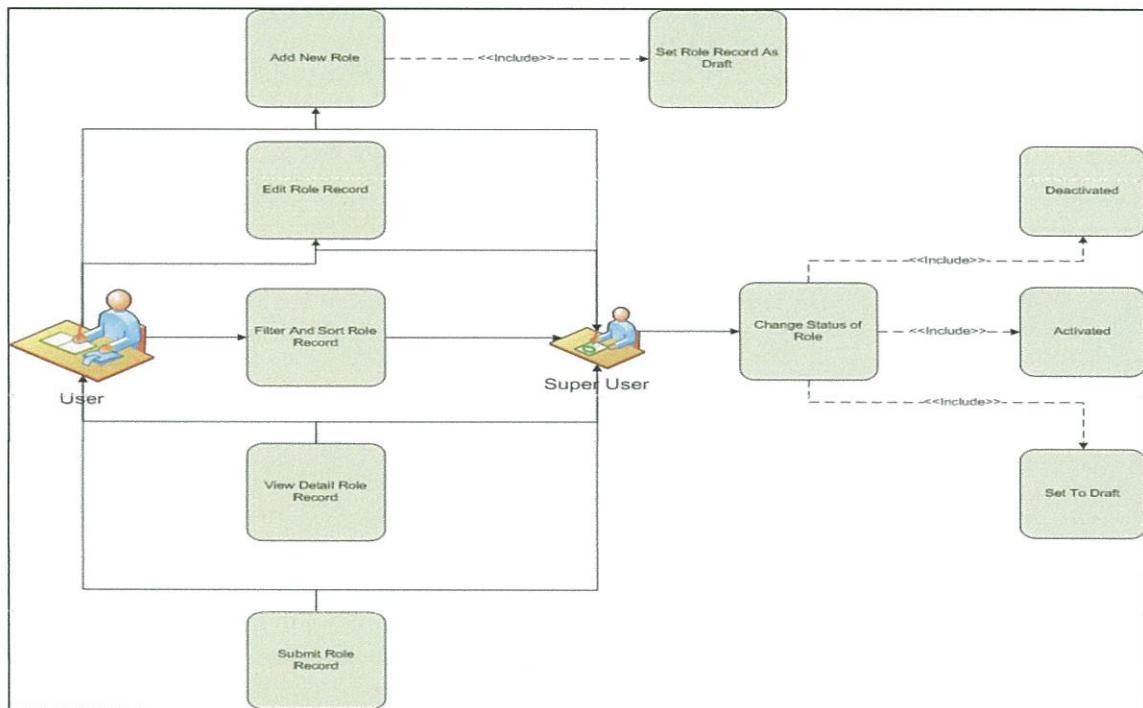


Figure 4 – Use case diagram of Role Management

2.2.2 Operations and scenarios

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

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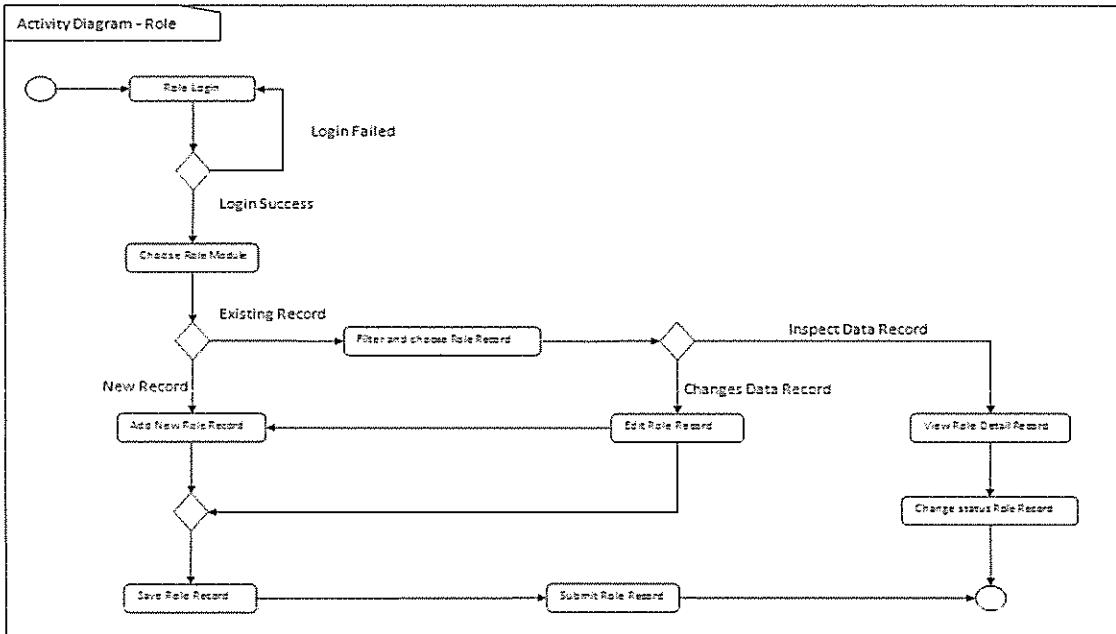


Figure 5 – Activity diagram of Role Information

No.	Steps/ Operations	Actor/ People	Scenario
1	Login	System Admin, ITD User	<ul style="list-style-type: none"> Actor fills out login form by inputting user name and password. Actor clicks [sign in] button. System will check the account of user; if actor account is already registered user will enter into the system. If doesn't user can return the step.
2.	Choose Role module	System Admin, ITD User	<ul style="list-style-type: none"> After login, actor can choose Role module on the menu of system. After that, screen of Role information will be opens. After Role screen opens, Role list will be shown and existing Role data will be displayed.
3.	Add new Role	System Admin, ITD User	<ul style="list-style-type: none"> If Role information screen opens, actor can click [add] button to add new records of Role, and after that add new Role screen will be opens. Upon add new Role screen, actor fill out the fields. The mandatory fields cannot be blanks.
4.	Save Role record	System Admin, ITD User	<ul style="list-style-type: none"> After fill out the fields, actor can click [save as draft] button, if want to make a records as <u>draft</u>. After that, system will proceed to store a data into database and will be automatically check a validation of data (such like; data type, mandatory data, and data length) If done, actor can click back button to return to the Role list, then Role data will be displayed.
5	Submit Role record	System Admin, ITD 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 Role record as <u>submitted (or not draft)</u>. If done, actor can click back button to return to the customer list.
6.	Filter and sort Role records	System Admin,	<ul style="list-style-type: none"> Actor can then filter and sort the Role record based on columns where displayed on the Role list.

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		ITD User	<ul style="list-style-type: none"> To filter Role records, actor can enter keywords into the filter fields. After that press enter on the keyboards. If data founds, the result will be displayed on the customer list. If doesn't customer list will be blanks. To sort Role records, actor can click header of column on the list table. After that the records will be sorted by ascending or descending, alternately.
7.	Edit Role records	System Admin, ITD User	<ul style="list-style-type: none"> On the Role information screen actor can open edit Role screen to edit some kinds of data. To edit data of Role and if edit Role screen opens, actor can edit a record by inputting a data on each of the fields. The mandatory fields cannot be blanks.
8.	View detail Role record	System Admin, ITD User	<ul style="list-style-type: none"> On the Role information screen actor can open view detail Role screen to inspect a data. To view detail Role record, click [view detail] button, after that system will displayed a screen of view detail Role. On this screen, actor cannot do something to edit of data. Only view detail of Role record.
9	Change status of Role record	System Admin, ITD User	<ul style="list-style-type: none"> If view detail Role screen opens, actor can change the status of Role by click of [activated] button or [deactivated] button (depending by status that needs to change). If data should be edited by actor, then records can be [set to draft] After that, system will proceed automatically to change the status. If status of role record is <u>active</u>, then [deactivated] will be visible. And opposite that, if status of role record is <u>inactive</u>, then [activated] will be visible. In short, one of them will be visible or invisible. If done, actor can click back button to return to the deactivated list.

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

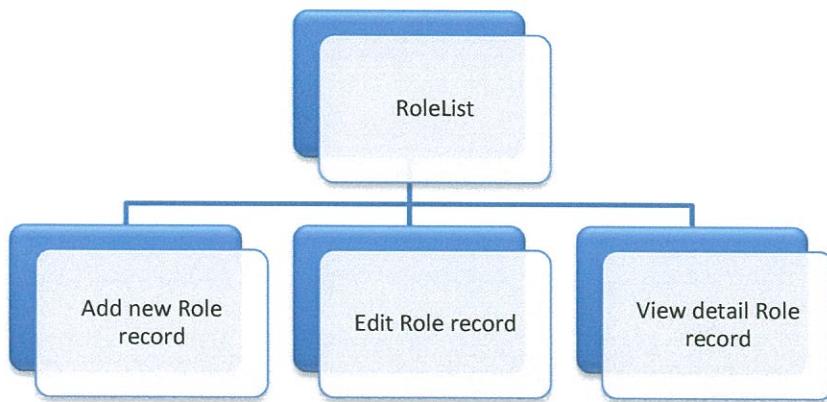


Figure 6 – Sitemap design of role information page

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2.2.4 Screen design

2.2.4.1 Role information

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

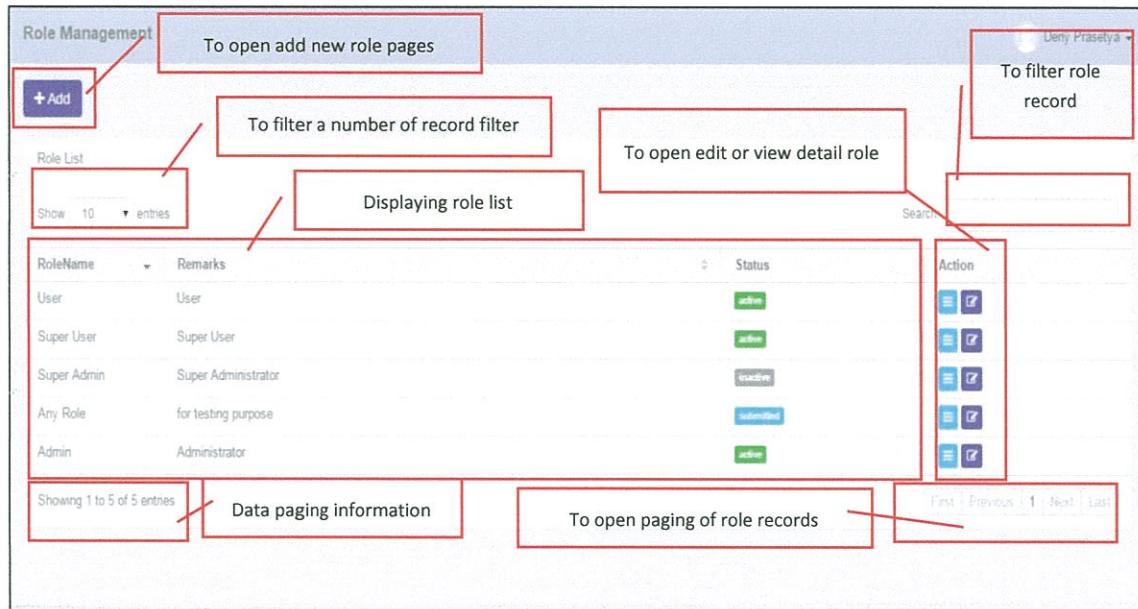


Image 5 – Screen of Role information

2.2.4.2 Add new Role record

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

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The screenshot shows the 'Add Role' screen. At the top right is a 'User Name' field. Below it is a red box labeled 'To entry a data of role' pointing to the 'Role Name' and 'Role Description' input fields. The main area is titled 'Assign Permission' and contains a grid where rows represent modules and columns represent permissions. A red box labeled 'To assign permission to role' points to the grid. Another red box labeled 'To search module name of permission' points to a search bar. At the bottom left are 'Save as Draft' and 'Submit' buttons, with a red box labeled 'To save or submit of data' pointing to them.

Module	View	Save As Draft	Save Changes	Submit	Activate	Deactivate	Validate	Invalidate	Terminate	Generate Service	Generate Billing	Add Implementation	Delete Implementation	Add Parts	Delete
Customer	<input type="checkbox"/>														
Supplier	<input type="checkbox"/>														
Product	<input type="checkbox"/>														
OPLCalculation	<input type="checkbox"/>														
OPLQuotation	<input type="checkbox"/>														
Refinance Quotation	<input type="checkbox"/>														
Refinance Calculation	<input type="checkbox"/>														
Agreement	<input type="checkbox"/>														
OPLBillPay	<input type="checkbox"/>														
OPLServiceHistory	<input type="checkbox"/>														

Image 6 – Screen of add new role record

2.2.4.3 Edit Role record

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

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The screenshot shows the 'Edit Role' screen with several annotated areas:

- Top Navigation and Status:** Includes a 'Back' button, a 'Return back to role list' link, a 'History of data' link, a 'Status of role record' dropdown (set to 'Submitted'), and user information (Created by Achmad Fardani, Created Date 09/05/2015, Last Modified By Achmad Fardani, Last Modified Date 06/25/2015).
- Entry Data Form:** A large red box surrounds the 'Edit Role' form containing fields for 'RoleName' (Test After Bug Fixed 25June15) and 'Remarks' (Test After Bug Fixed).
- Assign Permission Section:** A red box highlights the 'Assign Permission' section. It includes a search bar ('To search module name of permission') and a 'Search' button. Below is a grid for assigning permissions to roles across various modules like Customer, Product, Supplier, etc.
- Action Buttons:** At the bottom left is a 'Save Changes' button, and at the bottom right is a 'To save data' button.

Image 7 – Screen of edit role record

2.2.4.4 View detail role record

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

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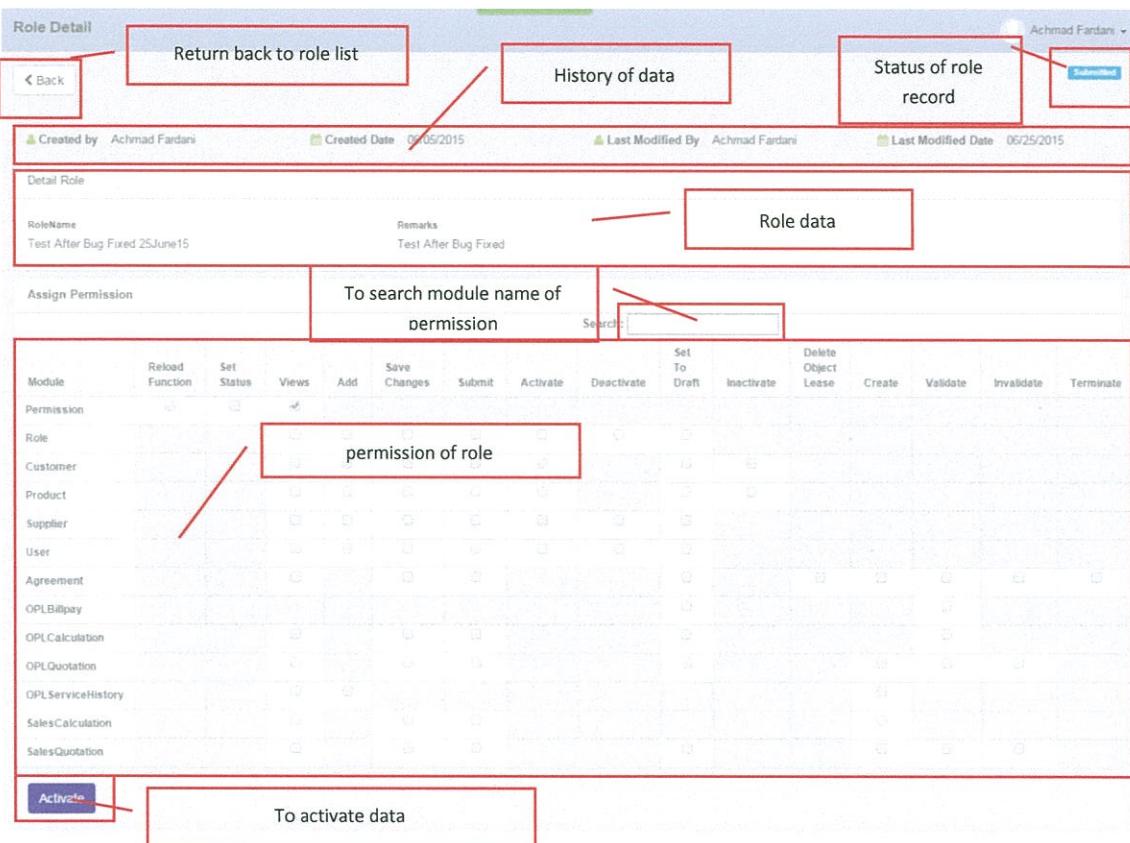


Image 8 – Screen of view detail role record

2.2.5 Screen features

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

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[Deactivated] To set a status of supplier record as inactive

2.2.6 Data structure

Field	Data Type	Mandatory
IdRole	int	Yes
RoleName	varchar	Yes
Remarks	varchar	No
IsDeleted	bit	Yes
Status	varchar	Yes
IsDraft	bit	Yes
IsSubmit	bit	Yes
IsActive	bit	Yes
CreatedDate	datetime	Yes
CreatedBy	nvarchar	Yes
LastModified	datetime	Yes
LastModifiedBy	varchar	Yes

2.3 Manage Permission

2.3.1 Use case

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

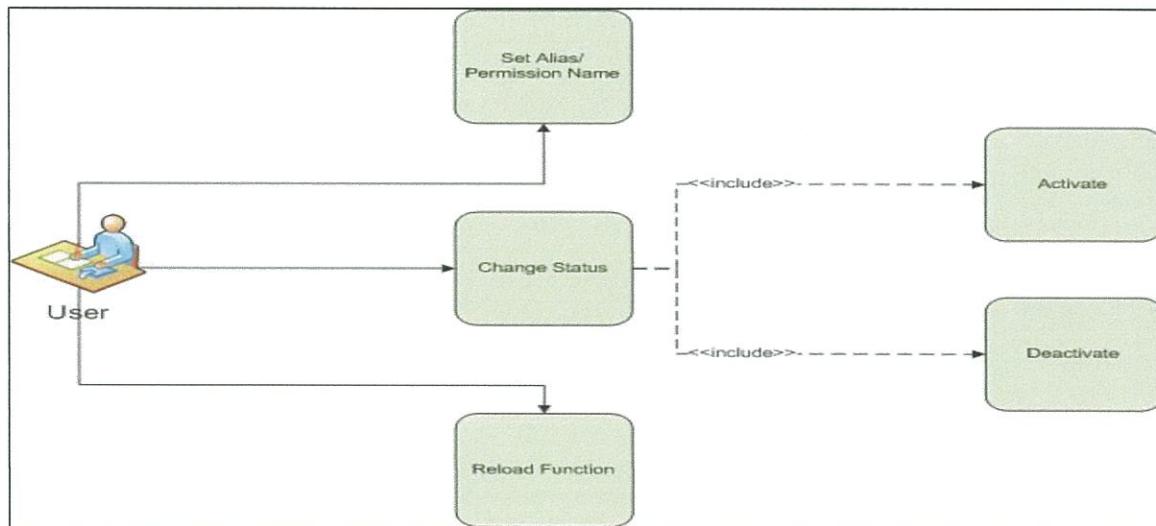


Figure 7 – Use case diagram of Manage Permission

2.3.2 Screen design

2.3.2.1 Manage Permission

This screen is designed to display, and manage the permission. On the permission list user can reload the list of olss function, set the alias, and activate or deactivate permission.

Functional Specification: User And Role Management

Project	Operating Lease Support System Development		
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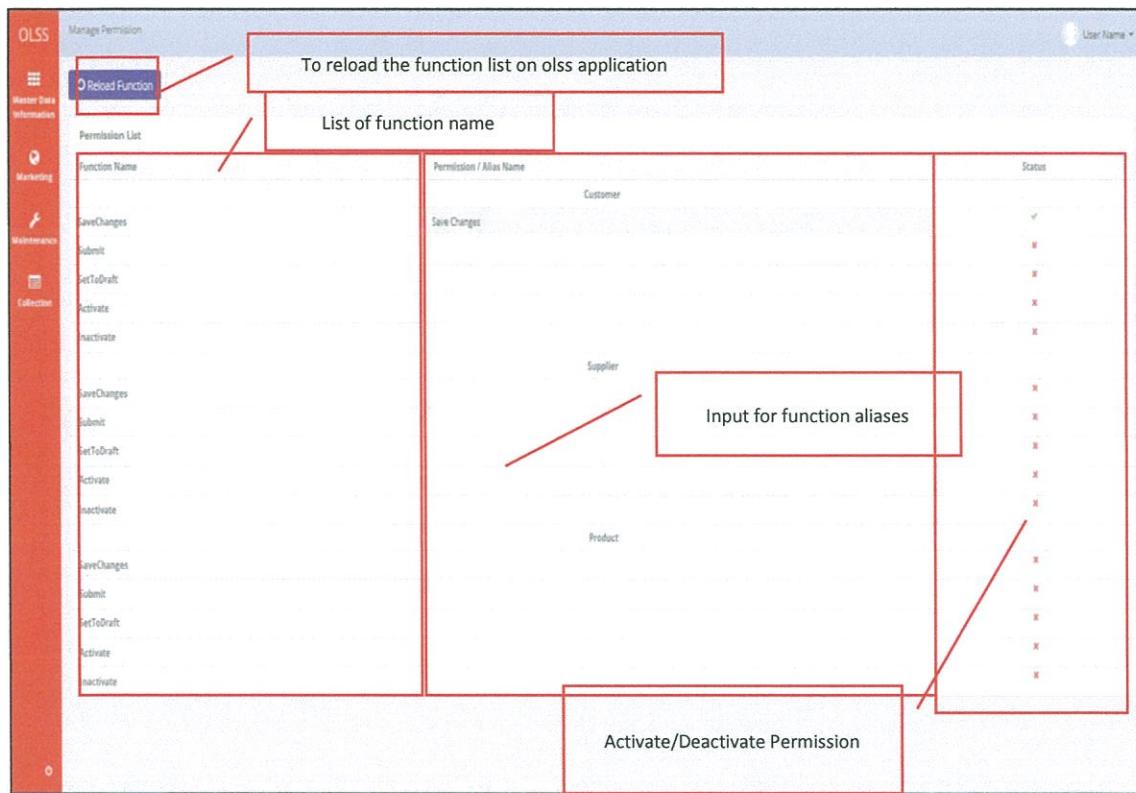


Image 9 – Screen of Manage Permission

2.3.3 Screen features

Features	Description
[Reload Function]	To reload all function on olss assembly that has [OlssAuthorization] Attributes.
[Activated / Deactivated]	To Set Permission as Active or Inactive Permission
[Set Alias]	To set alias of function name, the alias will shown as column name of assign permission on role module

2.3.4 Data structure

Field	Data Type	Mandatory
IdPermission	int	Yes
ModuleName	nvarchar	Yes
FunctionName	nvarchar	Yes
PermissionName	nvarchar	Yes
IsActive	bit	Yes

Functional Specification: User And Role Management

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3 Appendix

What is the use case?

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

What are Benefits of use cases?

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

What Use Cases Include

- 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

What Use Cases Do NOT Include

- 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>)



PT. BERLIAN SISTEM INFORMASI



OPERATING LEASE SUPPORT SYSTEM DEVELOPMENT

FOR



Entity Relationship Diagram

USER ROLE MANAGEMENT

Revision 0.0

Prepared by:

PT. Berlian Sistem Informasi

KTB Annex Bld. 4th Floor, Jl. Jend. A. Yani. Pulomas,
Tel. +62 21 4786 7575 (Hunting) Fax. +62 21 4714964 www.bsi.co.id

ERD: User Role Management			
Project	Operating Lease Support System Development		
Author	Achmad Fardani Rizki	Date	15 Juni 2015
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ERD: User Role Management			
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1 Introduction

1.1 Purpose

This document is addressed for the users whose have privileges for manage the OLSS Application.

1.2 Scope

This ERD is shows the relationships of entity sets, and also object of the entity.

1.3 Acronyms and abbreviations

[N/A]

1.4 References

[N/A]

ERD: User Role Management			
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2 Database Relationship And Column Properties

2.1 Diagram

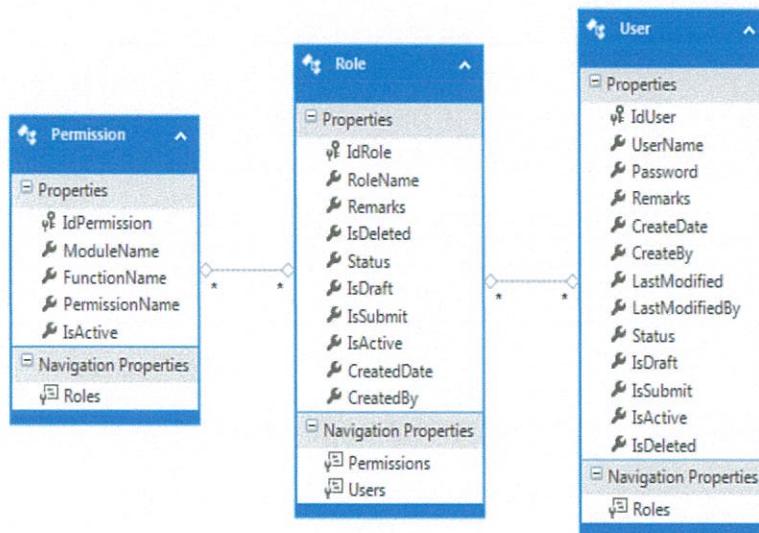


Figure 1 –diagram of User Management

1. Permission and Role in a many-to-many relationship, with RolePermission as linking/junction table. The link table contains just the foreign keys used to link the two tables together with no payloads.
2. User and Role in a many-to-many relationship, with UserRole as linking/junction table. The link table contains just the foreign keys used to link the two tables together with no payloads.

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2.2 Database Column Properties

2.2.1 User

Column Name	Data Type	Allow Nulls
IdUser	int	<input type="checkbox"/>
UserName	varchar(50)	<input type="checkbox"/>
Password	varchar(200)	<input checked="" type="checkbox"/>
Remarks	varchar(200)	<input checked="" type="checkbox"/>
CreateDate	datetime	<input checked="" type="checkbox"/>
CreateBy	varchar(25)	<input checked="" type="checkbox"/>
LastModified	datetime	<input checked="" type="checkbox"/>
LastModifiedBy	varchar(25)	<input checked="" type="checkbox"/>
Status	varchar(10)	<input checked="" type="checkbox"/>
IsDraft	bit	<input type="checkbox"/>
IsSubmit	bit	<input type="checkbox"/>
IsActive	bit	<input type="checkbox"/>
IsDeleted	bit	<input checked="" type="checkbox"/>

2.2.2 UserRole

Column Name	Data Type	Allow Nulls
IdRole	int	<input type="checkbox"/>
IdUser	int	<input type="checkbox"/>

2.2.3 Role

Column Name	Data Type	Allow Nulls
IdRole	int	<input type="checkbox"/>
RoleName	varchar(50)	<input type="checkbox"/>
Remarks	varchar(200)	<input checked="" type="checkbox"/>
IsDeleted	bit	<input checked="" type="checkbox"/>
Status	varchar(50)	<input checked="" type="checkbox"/>
IsDraft	bit	<input type="checkbox"/>
IsSubmit	bit	<input type="checkbox"/>
IsActive	bit	<input type="checkbox"/>
CreatedDate	datetime	<input checked="" type="checkbox"/>
CreatedBy	nvarchar(50)	<input checked="" type="checkbox"/>

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2.2.4 RolePermission

Column Name	Data Type	Allow Nulls
IdRole	int	<input type="checkbox"/>
IdPermission	int	<input type="checkbox"/>

2.2.5 Permission

Column Name	Data Type	Allow Nulls
IdPermission	int	<input type="checkbox"/>
ModuleName	nvarchar(50)	<input type="checkbox"/>
FunctionName	nvarchar(50)	<input type="checkbox"/>
PermissionName	nvarchar(50)	<input type="checkbox"/>
IsActive	bit	<input type="checkbox"/>