

# **Task Management System User Story**

Digital Academy SWE Batch 08/24

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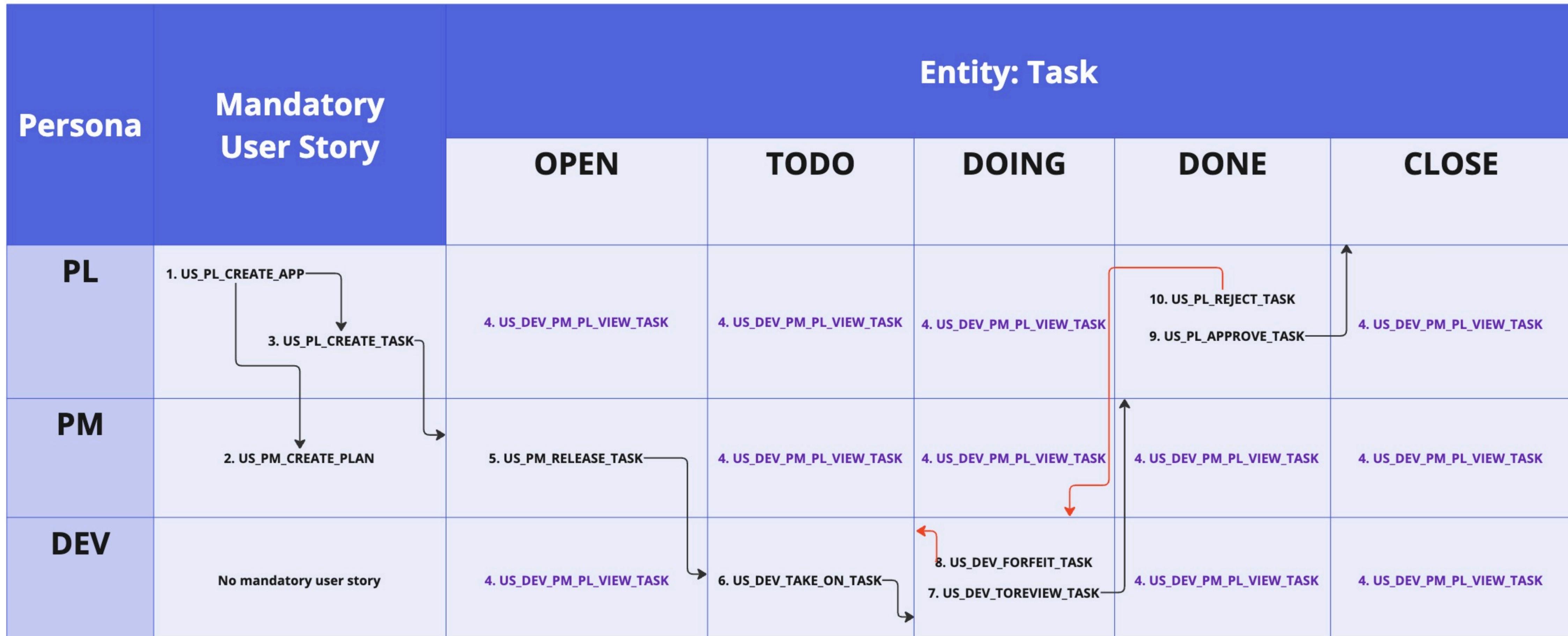
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## User Stories

- |                 |                           |
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| 2. US_U_UPDATE  | 2. US_PM_CREATE_PLAN      |
| 3. US_A_ONBOARD | 3. US_PL_CREATE_TASK      |
|                 | 4. US_DEV_PM_PL_VIEW_TASK |
|                 | 5. US_PM_RELEASE_TASK     |
|                 | 6. US_DEV_TAKE_ON_TASK    |
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|                 | 9. US_PL_APPROVE_TASK     |
|                 | 10. US_PL_REJECT_TASK     |

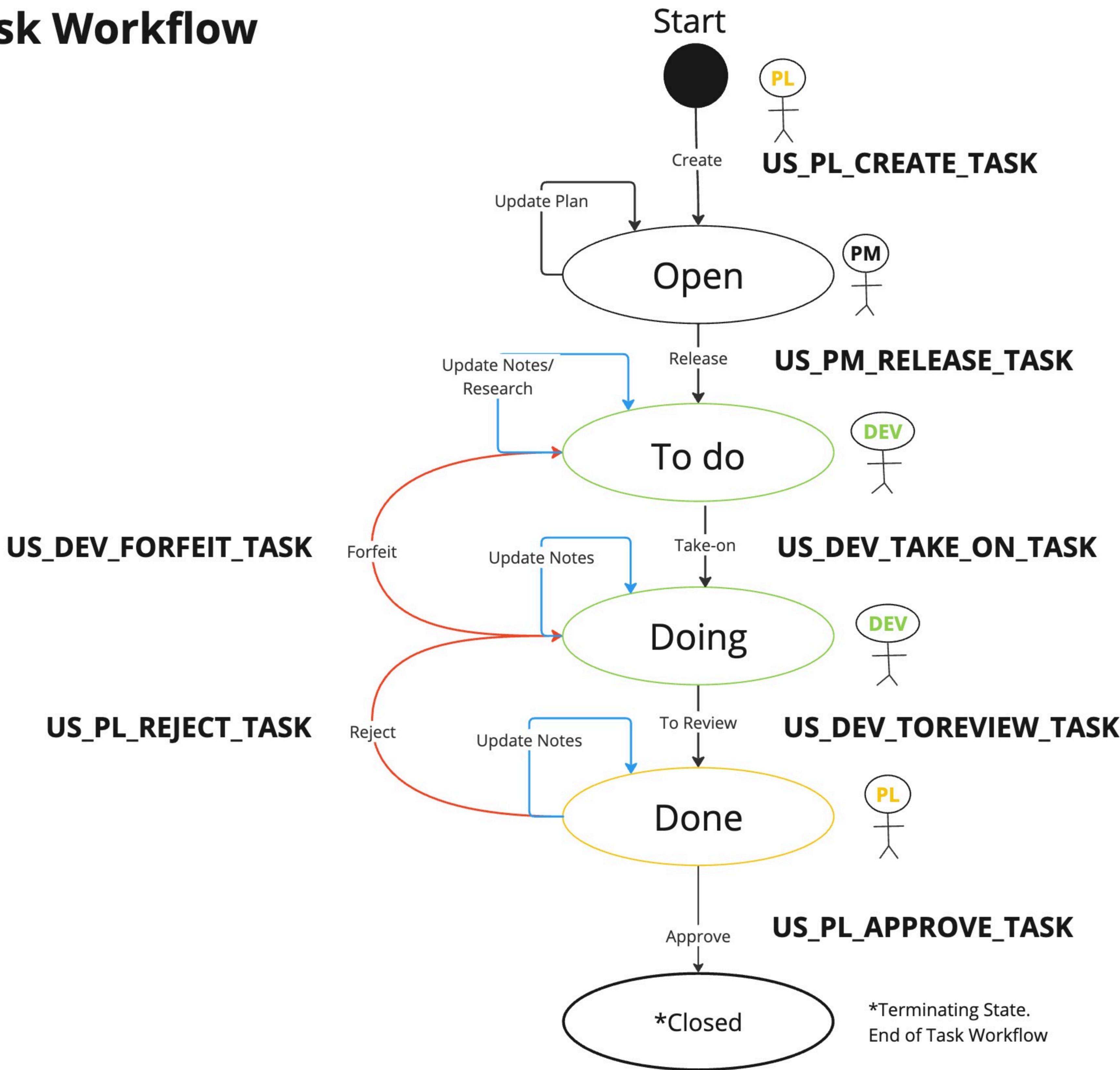
# User Story Map



**LISTS OF USER STORIES**

1. US\_PL\_CREATE\_APP
2. US\_PM\_CREATE\_PLAN
3. US\_PL\_CREATE\_TASK
4. US\_DEV\_PM\_PL\_VIEW\_TASK
5. US\_PM\_RELEASE\_TASK
6. US\_DEV\_TAKE\_ON\_TASK
7. US\_DEV\_TOREVIEW\_TASK
8. US\_DEV\_FORFEIT\_TASK
9. US\_PL\_APPROVE\_TASK
10. US\_PL\_REJECT\_TASK

# Task Workflow



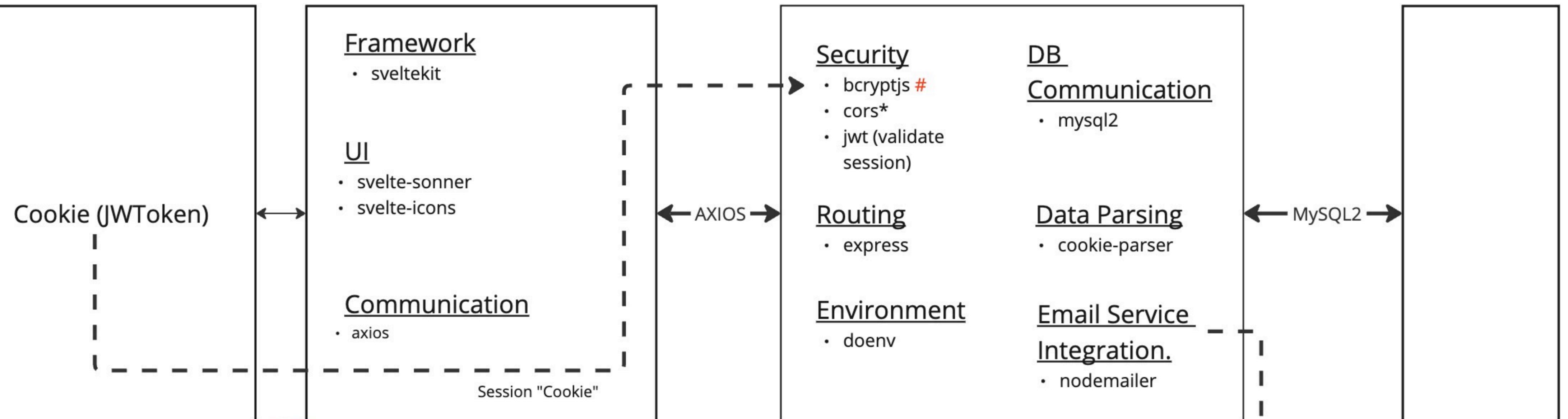
# N-Tier Architecture (MVC)

Browser

View (Svelte)

Controller (NodeJS)

Model (MySQL)



## \*CORS (Cross Origin Resource Sharing)

- protect node.js
- unauthorised endpoint

Connects to SMTP server to send email

User's Email  
Inbox

## User Management System

Accounts

Accounts	
(pk) username varchar(50)	
password varchar(255)	
email varchar(100)	
accountStatus varchar(30)	

UserGroup

UserGroup	
(pk, ck) <user_group>_<username>	
(optional) username varchar(50)	
default <empty string>	
user_group varchar(50)	

### Additional Information

- pk: primary key
- fk: foreign key
- ck: composite key (combination of two or more keys)
- Date fields from tables will be stored using integer representing epoch

### Table: Account

- id is the **primary key**, to uniquely identify an entry in *Account Table*
- username is an unique entry in column
  - used for authentication (login)
- Account\_group can contain admin and or user to indicate the level of autonomy in the system
- state field indicates if the user is disabled or active

### Table: Application User

- For representing the relationship between *Account* and *Application*
- Account\_id and App\_Acronym are foreign keys which link entry to *Account Table* and *Application Table* respectively
  - Create a composite primary key called App\_User\_id <Account\_id>\_<App\_Acronym>
- User\_Group contains the user's group association, which provides them rights to perform certain action in an application
  - e.g. "dev\_grp1", "pl\_grp1"
  - **Checkgroup(userid, groupname)** checks the entries in the *User\_group* to check for its permission in the project

## Task Management System

Application

Application	
(pk) App_Acronym varchar (50)	
App_Description text	
App_Rnumber int	
App_startDate int	
App_endDate int	
App_permit_Open varchar(50)	
App_permit_toDoList varchar(50)	
App_permit_Doing varchar(50)	
App_permit_Done varchar(50)	
App_permit_Create varchar(50)	

Plan

Plan	
(pk, ck) <Plan_MVP_name>_<Plan_app_Acronym>	- 1 -
Plan_MVP_name varchar (255)	
1...* (fk) Plan_app_Acronym varchar (50)	
Plan_startDate int	
Plan_endDate int	
Plan_color varchar(7)	
Task	
Task	
(pk) Task_id* varchar (100)	
Task_plan varchar (255)	
(fk) Task_app_Acronym varchar (50)	
Task_name varchar(255)	
Task_description text	
Task_notes mediumtext	
Task_state varchar (10)	
Task_creator varchar(50)	
Task_owner varchar (50)	
Task_createDate int	

\*Task\_id <App\_Acronym>\_<App\_Rnumber>

### Table: Application

- App\_Acronym is the **primary key**, to uniquely identify an entry in *Application Table*
- permit\_Open, ToDoList, Doing, Done contain a list of User-Group string which gives permission to user
- **An Application must exists before a Plan or Task exists**

### Table: Plan

- id is a **composite key** between Plan\_app\_Acronym and Plan\_MVP\_name
  - Same plan name, but across different applications
- Plan\_app\_Acronym is the **foreign key**, which links the entry to *Application Table*
  - Multiple plans referring to the same Application
- **A Plan can only exists if an Application exists**

### Table: Task

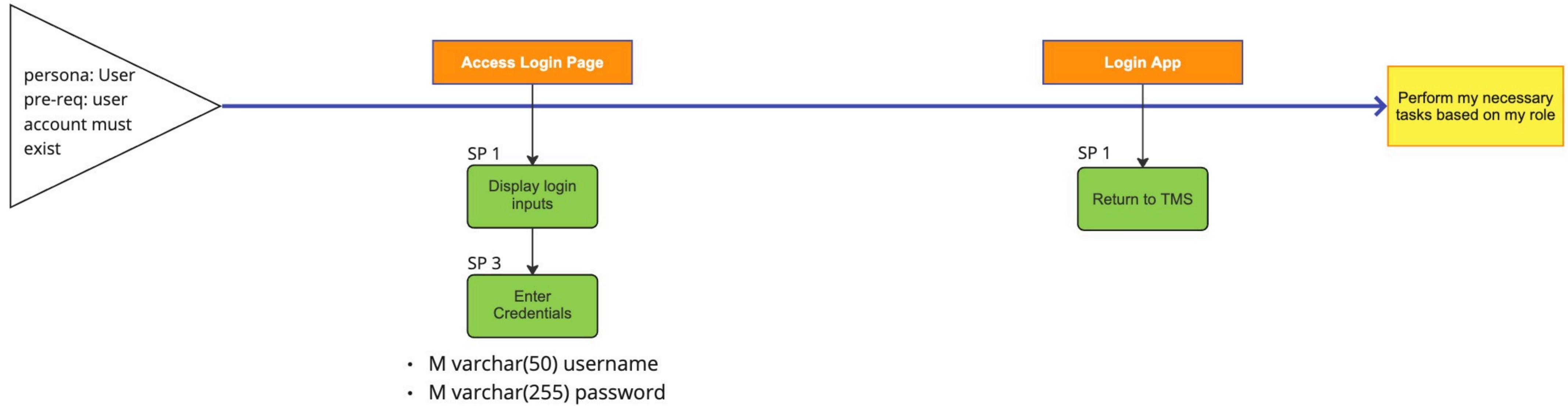
- Task\_id is the **primary key**, to uniquely identify an entry in *Task Table*
  - Task\_id derived from <App\_Acronym>\_<App\_Rnumber>
  - <App\_Rnumber> is a running number sequence
- Task\_app\_Acronym is the **foreign key**, which links the entry to *App Table*
  - Multiple tasks referring to same Application
- Task\_plan is the **foreign key**, which links entry to *Plan Table*
  - Multiple tasks referring to the same Plan
- **A Task can only exists if an Application exists**
- **A Task can exists without a Plan**

**ID: US\_U\_LOGIN**

**Persona: User**

As a **User**, I want to be able to **access the login page and login into the application to access the application to view the main page** so that i can **perform necessary tasks based on my group.**

Story Points:  
5



## US\_U\_LOGIN CONVERSATION

### Conversation

- **Constraints:**
  - Account must exists and not disabled
  - Password no clear text in database
  - Alert "Invalid Credential" when either of the fields failed login
  - Password Minimum 8 char & Max 10 char consist of alphabets, numbers, special characters

# **LOGIN**

Username

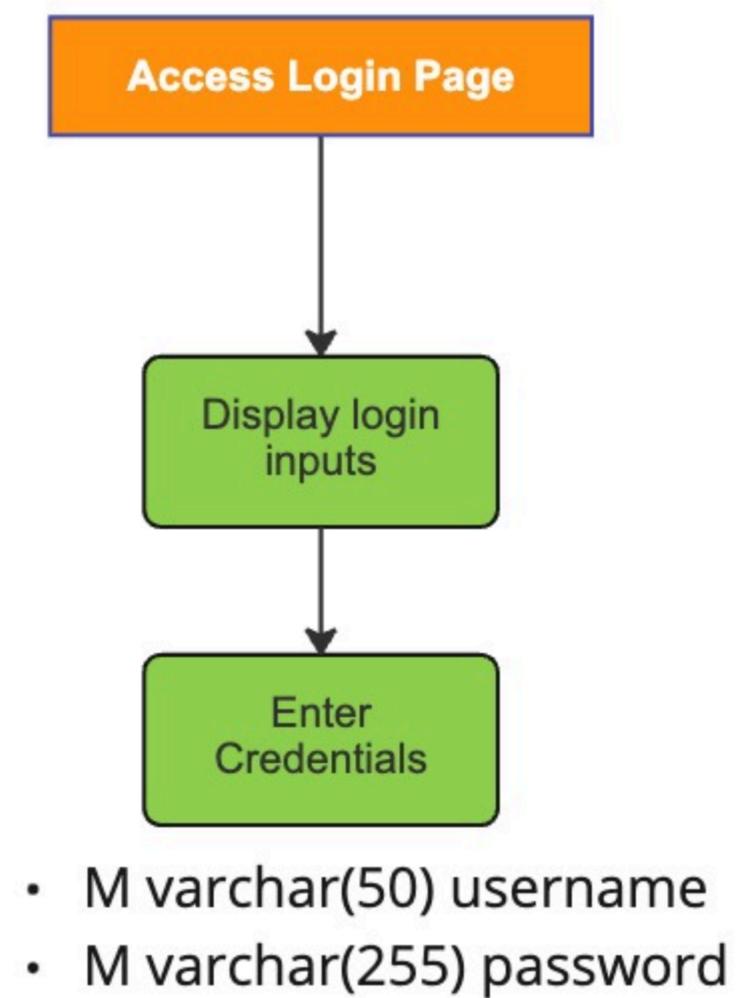
Password

**LOGIN**

## US\_U\_LOGIN Acceptance Criteria

Login Details

Username	Password	Active	Expected Result	Remarks
✓	✓	✓	✓	
Invalid Username	?	?	✗	<ul style="list-style-type: none"> <li>Error Handling: Invalid credentials</li> </ul>
Missing Username	?	?	✗	<ul style="list-style-type: none"> <li>Error Handling: Invalid credentials</li> </ul>
✓	Invalid Password	?	✗	<ul style="list-style-type: none"> <li>Error Handling: Invalid credentials</li> </ul>
✓	Missing Password	?	✗	<ul style="list-style-type: none"> <li>Error Handling: Invalid credentials</li> </ul>
✓	✓	Account disable	✗	<ul style="list-style-type: none"> <li>Error Handling: Invalid credentials</li> </ul>



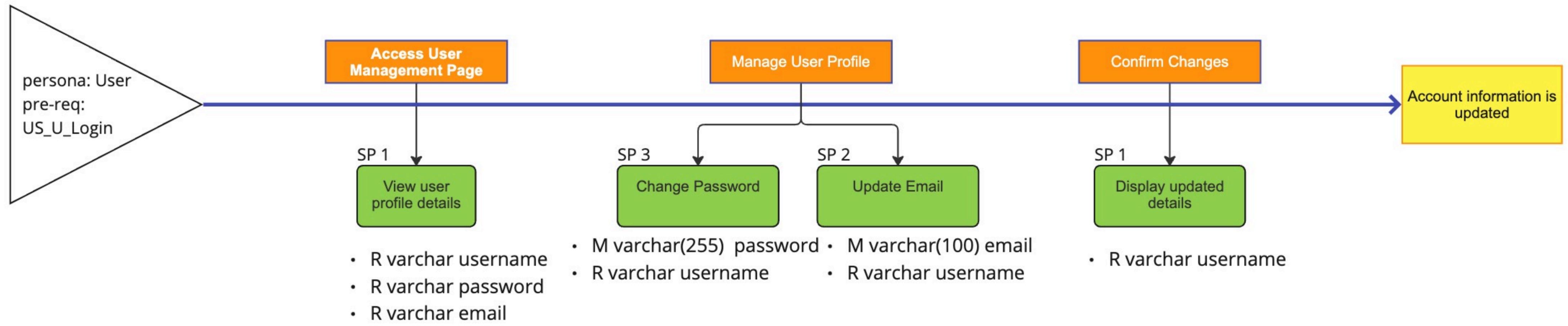
- M varchar(50) username
- M varchar(255) password

**ID: US\_U\_UPDATE**

**Persona: User**

As a **User**, I want to be able to access the profile page, manage user profile and confirm changes to update profile with the valid information so that I can ensure my account information is updated.

Story Points:  
7



## US\_U\_UPDATEPROFILE CONVERSATION

### Conversation

- **Constraints:**

- New Password Minimum 8 char & Max 10 char consist of alphabets, numbers, special characters
- Email Format entered must match the pattern `username@domain.com`
- Password is limited to 10 characters for the user, but is hashed before it is stored in the database, hence `varchar(255)`

Hello, Peter



## User Management

+ GROUP

Name	Email	Group	Password	Active	Action
Username	Email	Group	Password	Active	SUBMIT
Peter Lee					
Peter Lee					
Peter Lee					
Peter Lee					

**Profile**

**X**

**Username** Peter

**Email** peter.lee@example.com

**Password** •••••••

**Save Changes** **Cancel**

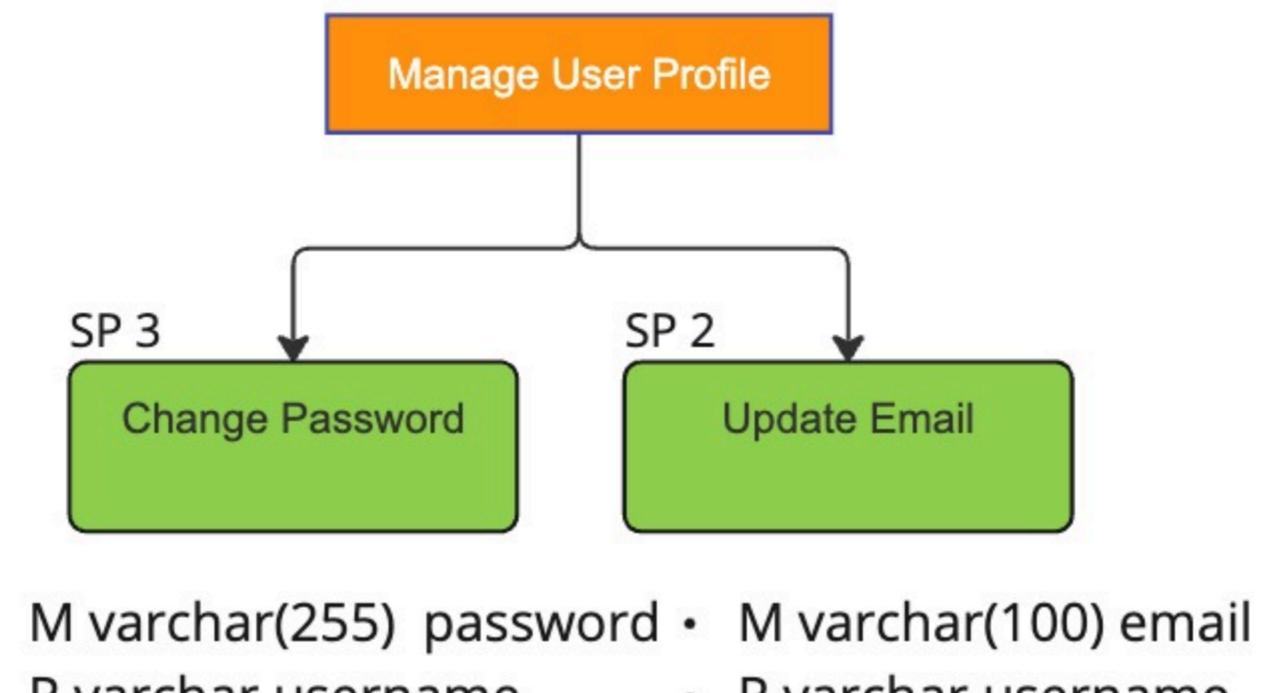
## US\_U\_UPDATEPROFILE Acceptance Criteria

Change Password

Username	New Password	Expected Result	Remarks
✓	✓	✓	
✓	Invalid Password Format	✗	<ul style="list-style-type: none"> <li>Error Handling: Invalid Password Format</li> </ul>

Update Email

Username	Email	Expected Result	Remarks
✓	✓	✓	
✓	Invalid Email Format	✗	Error Handling: Invalid Email Format



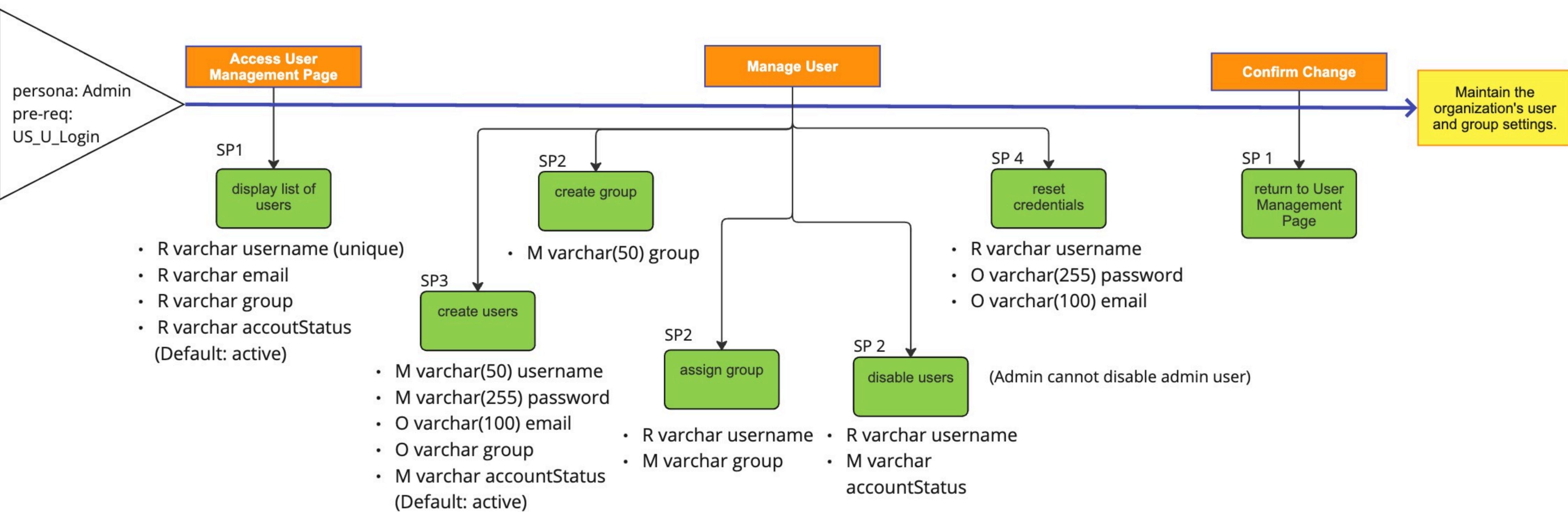
- M varchar(255) password
- R varchar username
- M varchar(100) email
- R varchar username

## ID: US\_A\_ONBOARD

### Persona: Admin

As an **Admin**, I want to be able to access the user management page, manage user and confirm changes to onboard users who are new to the system, manage user groups and responsibility to ensure that they are in the correct applications, and update credentials so that i can view all users information and maintain the organization's user and group settings.

Story Points:  
15



## US\_A\_ONBOARD CONVERSATION

- Constraints:**
  - Username Format Validation
    - Maximum of 50 characters
    - Must be alphanumeric with no spaces
  - Password Format Validation
    - Password Minimum 8 char & Max 10 char consist of alphabets, numbers, special characters
    - Password no clear text
  - Email Format Validation
    - Email Format entered must match the pattern `username@domain.com`
  - Group Format Validation
    - Maximum of 50 characters
    - Must be alphanumeric with possible underscore
  - Hardcoded admin account cannot be disabled

## View Applications

Hello, Peter



## Applications

+ CREATE APP

**App Name** Task Flow

**App Description** TaskFlow is a robust and user-friendly task management system designed to streamline project planning, task assignment, and progress tracking. It empowers project leads to effectively manage application data, create and assign tasks, and oversee the completion of project milestones.

**Start Date** September 1, 2024

**End Date** December 31, 2024



**App Name** ProjSync

**App Description** ProjSync is a comprehensive task and project management solution designed to enhance collaboration and productivity across teams. It provides project leads with the tools needed to define and track project objectives, assign tasks, and monitor progress in real-time.

**Start Date** September 15, 2024

**End Date** February 28, 2025



## User Management

Hello, Peter



## User Management

+ GROUP

Name

Email

Group

Password

Active

Action

Username

Email

Group

Password

Active

SUBMIT

Peter Lee

peter\_lee@example.com

Super Admin

\*\*\*\*\*

Active



Peter Lee

peter\_lee@example.com

A\_Project\_lead

\*\*\*\*\*

Active



Peter Lee

peter\_lee@example.com

A\_Devops

\*\*\*\*\*

Active



Peter Lee

peter\_lee@example.com

B\_Devops

\*\*\*\*\*

Active



## User Management - Edit

Hello, Peter



## User Management

+ GROUP

Name	Email	Group	Password	Active	Action
<input type="text" value="Username"/>	<input type="text" value="Email"/>	<input type="button" value="Group"/>	<input type="password"/>	<input type="button" value="Active"/>	<input type="button" value="SUBMIT"/>
Peter Lee	peter_lee@example.com	B_Project_Lead	*****	Active	<input type="button" value="EDIT"/>
Peter Lee	peter_lee@example.com	Super Admin	*****	Active	<input type="button" value=""/>
Peter Lee	peter_lee@example.com	A_Project_lead	*****	Active	<input type="button" value=""/>
Peter Lee	peter_lee@example.com	A_Devops	*****	Active	<input type="button" value=""/>
Peter Lee	peter_lee@example.com	B_Devops	*****	Active	<input type="button" value=""/>

## Add Group

Hello, Peter



## User Management

+ GROUP

Name	Email	Group	Password	Active	Action
<input type="text" value="Username"/>	<input type="text" value="Email"/>	<input type="button" value="Group"/>	<input type="password"/>	<input type="button" value="Active"/>	<input type="button" value="SUBMIT"/>
Peter Lee	peter_lee@example.com	Super Admin	*****	Active	<input type="button" value=""/>
Peter Lee				Active	<input type="button" value=""/>
Peter Lee				Active	<input type="button" value=""/>
Peter Lee				Active	<input type="button" value=""/>

### Add Group

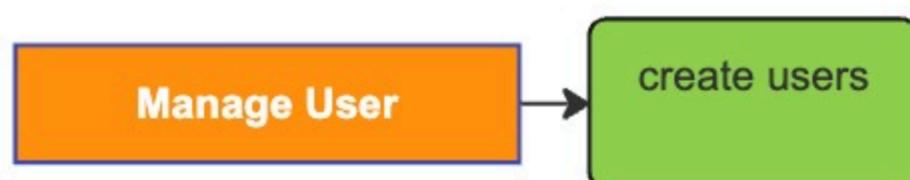
Group Name

Name

ADD

Cancel

# US\_A\_ONBOARD Acceptance Criteria



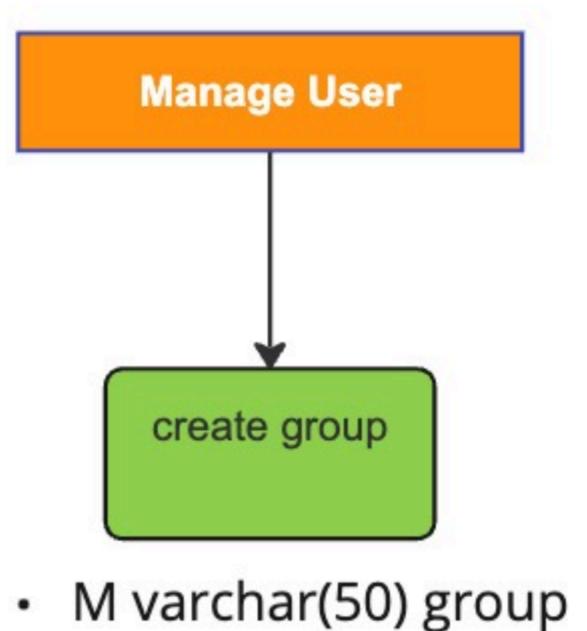
- M varchar(50) username
- M varchar(255) password
- O varchar(100) email
- O varchar group
- M varchar accountStatus  
(Default: active)

## Create User

Username	Password	Email (optional)	Group (optional)	Active	Expected Result	Remarks
✓	✓	✓	✓	✓	✓	
✓	✓	Missing Email	Missing Group	✓	✓	<ul style="list-style-type: none"> <li>• Optional email input</li> <li>• Optional group input</li> </ul>
✓	✓	Missing Email	✓	✓	✓	<ul style="list-style-type: none"> <li>• Optional email input</li> </ul>
✓	✓	✓	Missing Group	✓	✓	<ul style="list-style-type: none"> <li>• Optional group input</li> </ul>
Missing Username	?	?	?	?	✗	<ul style="list-style-type: none"> <li>• Error Handling: Username is Mandatory</li> </ul>
Not Unique Username	?	?	?	?	✗	<ul style="list-style-type: none"> <li>• Error Handling: Username need to be unique</li> </ul>
Invalid Username Format	?	?	?	?	✗	<ul style="list-style-type: none"> <li>• Error Handling: Username must be alphanumeric</li> </ul>
✓	Missing Password	?	?	?	✗	<ul style="list-style-type: none"> <li>• Error Handling: Password is Mandatory</li> </ul>
✓	Invalid Password Format	?	?	?	✗	<ul style="list-style-type: none"> <li>• Error Handling: Invalid Password Format</li> </ul>
✓	✓	✓	✓	Missing Field	✗	<ul style="list-style-type: none"> <li>• Error Handling: Active is Mandatory</li> </ul>
✓	✓	Invalid Email Format	✓	✓	✗	<ul style="list-style-type: none"> <li>• Error Handling: Invalid Email Format</li> </ul>

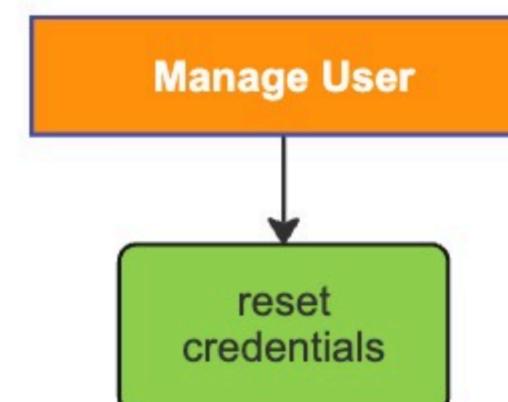
## Create Group

Group	Expected Result	Remark
✓	✓	
Wrong Group format	✗	Error Handling: Invalid group format
Missing Group	✗	Error Handling: Group is Mandatory
Not Unique Group	✗	Error Handling: Group name already exists



## Reset User Credentials

Username	Password	Email	Expected Result	Remarks
✓	✓	✓	✓	
✓	✓	Missing Email	✓	<ul style="list-style-type: none"> <li>• Optional email input</li> </ul>
✓	✓	Invalid Email Format	✗	<ul style="list-style-type: none"> <li>• Error Handling: Invalid Email Format</li> </ul>
✓	Missing Password	?	✗	<ul style="list-style-type: none"> <li>• Error Handling: Password is Mandatory</li> </ul>
✓	Invalid Password Format	?	✗	<ul style="list-style-type: none"> <li>• Error Handling: Invalid Password Format</li> </ul>



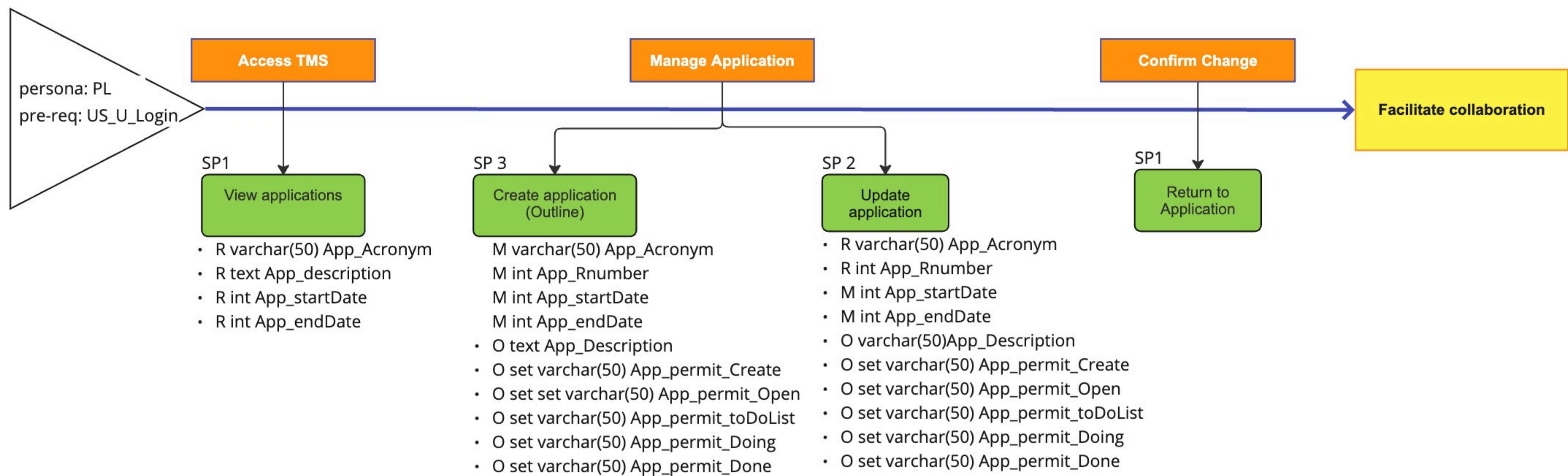
- R varchar username
- O varchar(255) password
- O varchar(100) email

**ID: US\_PL\_CREATE\_APP**

**Persona: Project Lead**

As a PL, I want to access the project to outline the application information to allow permitted users to manage their application timeline & update the application to make changes and assign group permits for roles and responsibilities so that I can facilitate collaboration.

Story Points:  
7



## **US\_PL\_CREATE\_APP CONVERSATION**

# Conversation: Rules & Constraints

- **Constraints:**
    - App\_Acronym Format Validation
      - Must be alphanumeric including '\_'
      - Between 1-50 characters
    - App\_Rnumber Format Validation
      - Must be Positive Integer

## **View Applications**

Hello, Peter

## Applications

+ CREATE APP

<b>App Name</b>	Task Flow	
<b>App Description</b>	TaskFlow is a robust and user-friendly task management system designed to streamline project planning, task assignment, and progress tracking. It empowers project leads to effectively manage application data, create and assign tasks, and oversee the completion of project milestones.	
<b>Start Date</b>	September 1, 2024	
<b>End Date</b>	December 31, 2024	

<b>App Name</b>	ProjSync
<b>App Description</b>	ProjSync is a comprehensive task and project management solution designed to enhance collaboration and productivity across teams. It provides project leads with the tools needed to define and track project objectives, assign tasks, and monitor progress in real-time.
<b>Start Date</b>	September 15, 2024
<b>End Date</b>	February 28, 2025

## Create Application

Hello, Peter

## Applications

<b>App Name</b>	Tas
<b>App Description</b>	Tas des pro ma cor
<b>Start Date</b>	Sep
<b>End Date</b>	Dec

## Create Application

<b>App Acronym</b>	Name	<b>App R-Number</b>	Number
<b>App Description</b>	Description		
<b>Start Date</b>	DD/MM/YYYY	<b>End Date</b>	DD/MM/YYYY
<b>App Permit Create</b>	Group		
<b>App Permit Open</b>	Group		
<b>App Permit ToDo</b>	Group		
<b>App Permit Doing</b>	Group		
<b>App Permit Done</b>	Group		

## Create Application

[Cancel](#)

# Update Application

Application: Task Flow      Applications    Task    User Management      Edit Profile    Logout

## Task Management Board

Plan ▾

Open	+ CRe
<App_Acronym>_<App_J	<b>App Acronym</b> Task Flow
<Task Name>	<b>App Description</b> ProjSync is a comprehensive task and project management solution designed to enhance collaboration and productivity across teams.
Owner	<b>App R-Number</b> 1
TF_7	<b>Start Date</b> 1/09/2024
Implement Task Assignment Logic	<b>End Date</b> 14/09/2024
Peter Lee	
TF_8	<b>App Permit Create</b> Group
Develop Task Creation Feature	
Peter Lee	
TF_160	<b>App Permit Open</b> Group
Conduct Unit Testing for New Features	
Peter Lee	
TF_161	<b>App Permit ToDo</b> Group
Gather User Feedback for Enhancements	
Peter Lee	

### Edit Application

Task Assignment Logic  
Creation Feature

**App Description** ProjSync is a comprehensive task and project management solution designed to enhance collaboration and productivity across teams.

**Start Date** 1/09/2024    **End Date** 14/09/2024

**App Permit Create** Group

**App Permit Open** Group

**App Permit ToDo** Group

**App Permit Doing** Group

**App Permit Done** Group

**Create Application**    **Cancel**

## US\_PL\_CREATE\_APP ACCEPTANCE CRITERIA

### Acceptance Criteria

Create Application					
Create Application					
App_Acronym	App_Rnumber	App_startDate	App_endDate	Expected Result	Remarks
✓	✓	✓	✓	✓	-
Null	?	?	?	✗	<ul style="list-style-type: none"> <li>• App_Acronym cannot be empty</li> </ul>
Invalid App_Acronym format	?	?	?	✗	<ul style="list-style-type: none"> <li>• App_Acronym must be alphanumeric and can contain '_'</li> <li>• App_Acronym must be between 1-50 characters</li> </ul>
App_Acronym not unique	?	?	?	✗	<ul style="list-style-type: none"> <li>• App_Acronym must be unique</li> </ul>
✓	Null	?	?	✗	<ul style="list-style-type: none"> <li>• App_Rnumber cannot be empty</li> </ul>
✓	Rnumber <= 0	?	?	✗	<ul style="list-style-type: none"> <li>• App_Rnumber must be a positive integer</li> </ul>
✓	✓	Null	?	✗	<ul style="list-style-type: none"> <li>• Date cannot be empty</li> </ul>
✓	✓	✓	Null	✗	<ul style="list-style-type: none"> <li>• Date cannot be empty</li> </ul>

Manage Application

Create application (Outline)

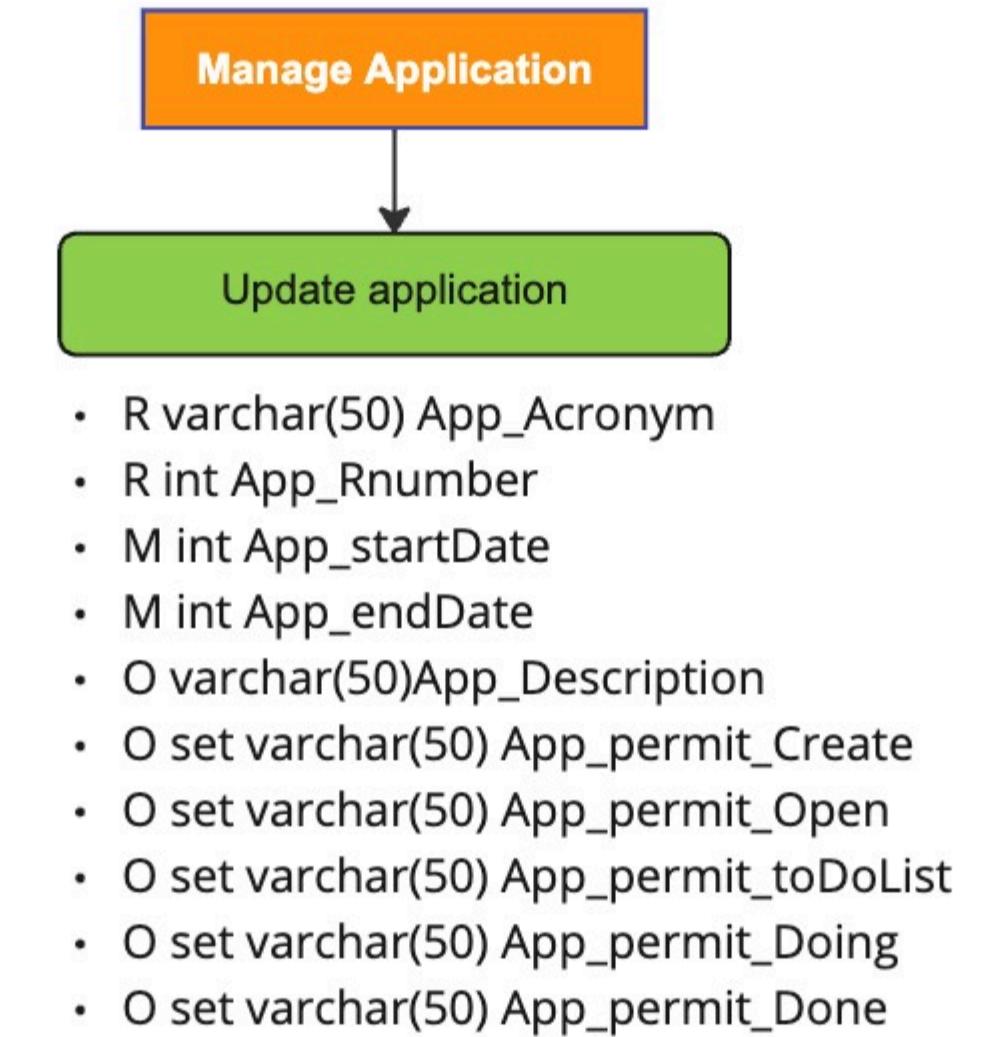
- M varchar(50) App\_Acronym
- M int App\_Rnumber
- M int App\_startDate
- M int App\_endDate
- O text App\_Description
- O set varchar(50) App\_permit\_Create
- O set set varchar(50) App\_permit\_Open
- O set varchar(50) App\_permit\_toDoList
- O set varchar(50) App\_permit\_Doing
- O set varchar(50) App\_permit\_Done

## US\_PL\_CREATE\_APP ACCEPTANCE CRITERIA

Update Application

Update Application

App_startDate	App_endDate	Expected Result	Remarks
✓	✓	✓	-
Null	?	✗	• Date cannot be null
✓	Null	✗	• Date cannot be null

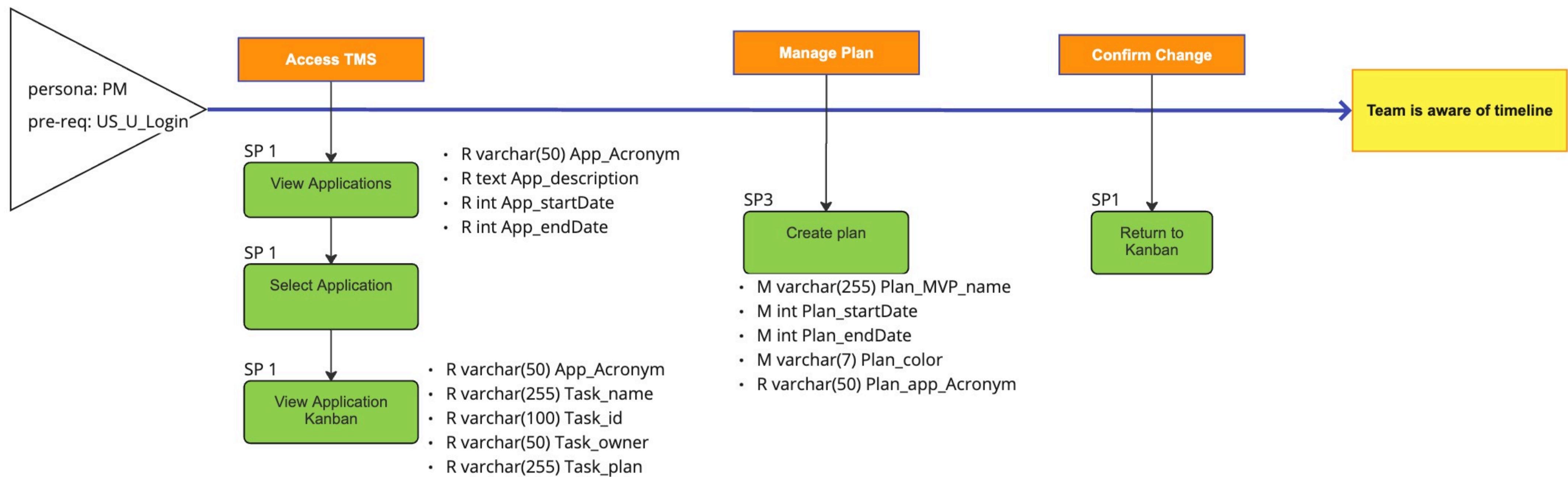


**ID: US\_PM\_CREATE\_PLAN**

**Persona: Project Manager**

As a PM, I want to access the application to create plan to allow users to assign plan to different tasks so that I can ensure the team is aware of the timeline.

Story Points:  
7



## US\_PM\_CREATE\_PLAN CONVERSATION

Conversation:  
Rules &  
Constraints

- **Constraints:**
  - Plan\_MVP\_name Format Validation
    - Between 1 - 255 characters
    - Plan\_startDate and Plan\_endDate cannot be empty
- **Rules:**
  - Plan\_MVP\_name must be unique within the application



## Task Management Board

+ CREATE PLAN

The Task Management Board interface features five columns: Open, To do, Doing, Done, and Closed. Each column contains a list of tasks represented as cards. The "Open" column has 5 tasks, "To do" has 3, "Doing" has 3, "Done" has 3, and "Closed" has 2. Each card includes the task ID, description, assignee, and a small blue button.

Open	To do	Doing	Done	Closed
<b>TF_6</b> Implement Task Assignment Logic Wei Shan	<b>TF_5</b> Implement Task Assignment Logic JJ	<b>TF_3</b> Implement Task Assignment Logic Peter Lee	<b>TF_2</b> Implement Task Assignment Logic Peter Lee	
<b>TF_7</b> Implement Task Assignment Logic Peter Lee	<b>TF_159</b> Conduct Unit Testing for Core Features Wei Shan	<b>TF_4</b> Develop Task Creation Feature Yi Kiat	<b>TF_1</b> Develop Task Creation Feature Peter Lee	
<b>TF_8</b> Develop Task Creation Feature Peter Lee	<b>TF_158</b> Gather User Feedback for Future Enhancements Wei Shan	<b>TF_157</b> Conduct Unit Testing for Core Features Peter Lee		
<b>TF_160</b> Conduct Unit Testing for Core Features Peter Lee		<b>TF_156</b> Gather User Feedback for Future Enhancements Jing		
<b>TF_161</b> Gather User Feedback for Future Enhancements Peter Lee		<b>TF_155</b> Gather User Feedback for Future Enhancements Xin Qiong		

## Create Plan

Application: Task Flow

Project Manager

### Task Management Board

+ CREATE PLAN

Open

To do

Doing

Done

Closed

**Create Plan**

X

Application: Task Flow

**Plan Name:** Name

**Start Date:** DD/MM/YYYY

**End Date:** DD/MM/YYYY

**Color:** Color

**CREATE**

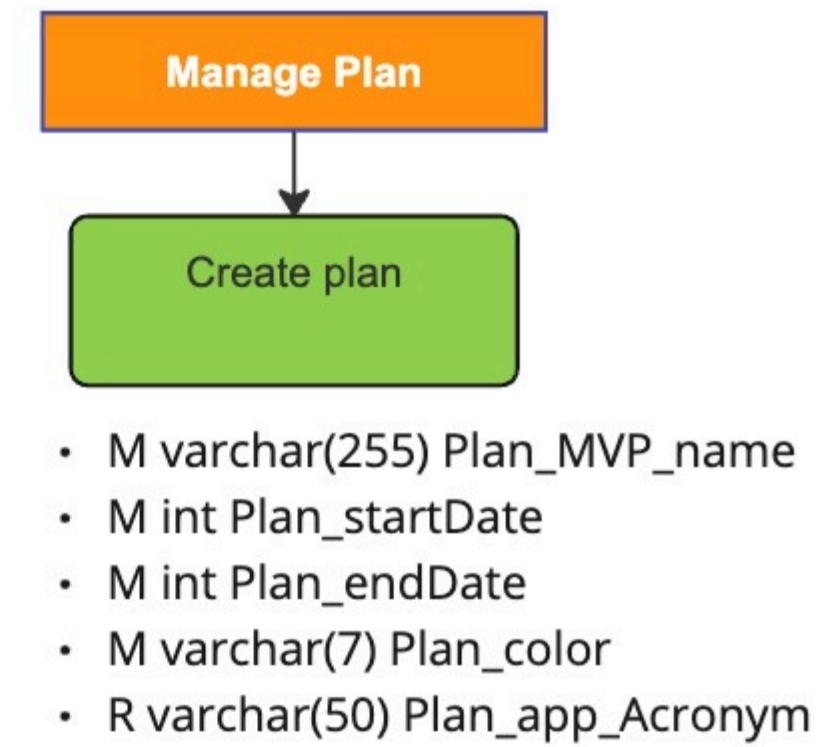
The Task Management Board displays five columns: Open, To do, Doing, Done, and Closed. Each column contains a list of tasks with their names, descriptions, and assignees. A modal window titled 'Create Plan' is overlaid on the board, prompting for 'Plan Name', 'Start Date', 'End Date', and 'Color'. The 'Application' field is pre-filled with 'Task Flow'.

Open	To do	Doing	Done	Closed
<App_Acronym>_<App_Rnumber> <Task Name> Owner	TF_6 Implement T Wei Shan	TF_159 Conduct Unit Features Wei Shan	TF_2 Implement Task Assignment Logic Peter Lee	
TF_7 Implement Task Assignment Logic Peter Lee	TF_8 Develop Task Creation Feature Peter Lee	TF_158 Gather User Enhancements Wei Shan	TF_1 Develop Task Creation Feature Peter Lee	
TF_160 Conduct Unit Testing for Core Features Peter Lee		Jing		
TF_161 Gather User Feedback for Future Enhancements Peter Lee	TF_155 Gather User Feedback for Future Enhancements Xin Qiong			

## US\_PM\_CREATE\_PLAN ACCEPTANCE CRITERIA

### Acceptance Criteria

Create Plan				
plan_MVP_name	plan_startDate	plan_endDate	Expected Result	Remarks
✓	✓	✓	✓	
Null	?	?	✗	Plan_MVP_name cannot be empty
Not unique Plan_MVP_name	?	?	✗	Plan_MVP_name must be unique within application
Invalid plan_MVP_name format	?	?	✗	Plan_MVP_name length is between 1 - 255 characters
✓	Null	?	✗	Date cannot be null
✓	✓	Null	✗	Date cannot be null

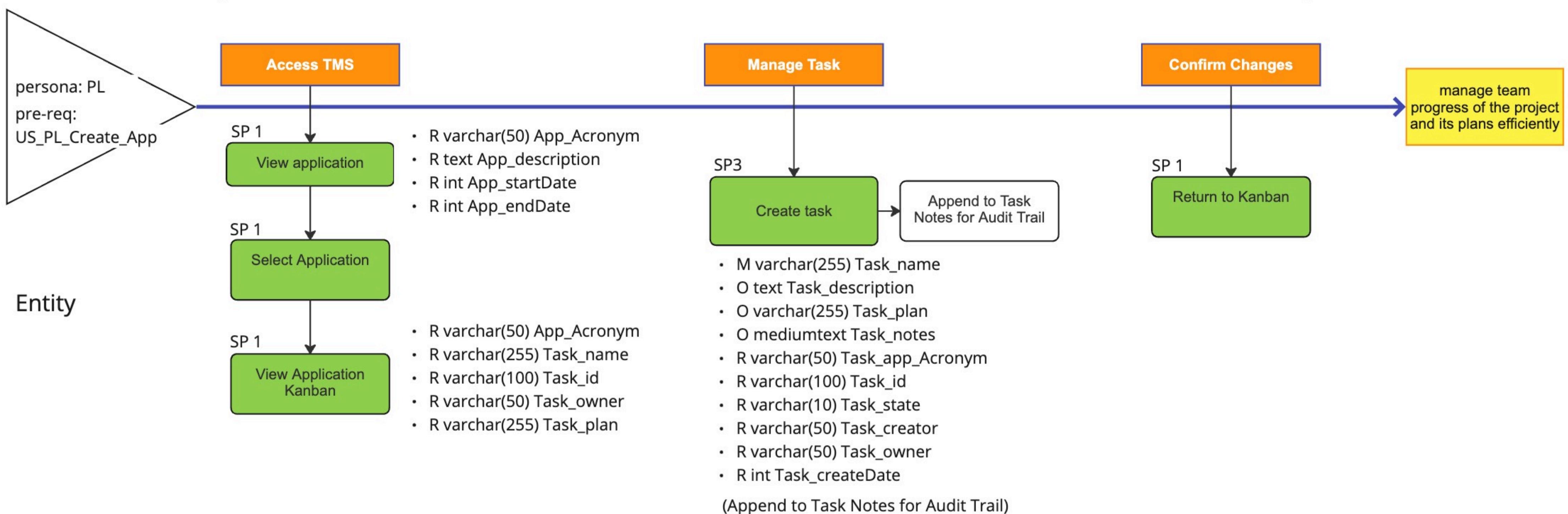


**ID: US\_PL\_CREATE\_TASK**

**Persona: Project Lead**

As a PL, I want to access the task management system to create tasks to allow the team to work on it so that I can manage team progress of the project and its plans efficiently.

Story Points:  
7



## US\_PL\_CREATE\_TASK CONVERSATION

Conversation:  
Rules &  
Constraints

- **Rules:**
  - Task\_id = <App\_Acronym>\_<App\_Rnumber> (system-generated)
  - Task\_state initialises as Open
  - Task\_creator and Task\_owner initialises as current user

### Create Task

Application: Task Flow      Applications    Task    User Management      Edit Profile    Logout

#### Task Management Board

<App\_Acronym>X<App\_Rnumber>

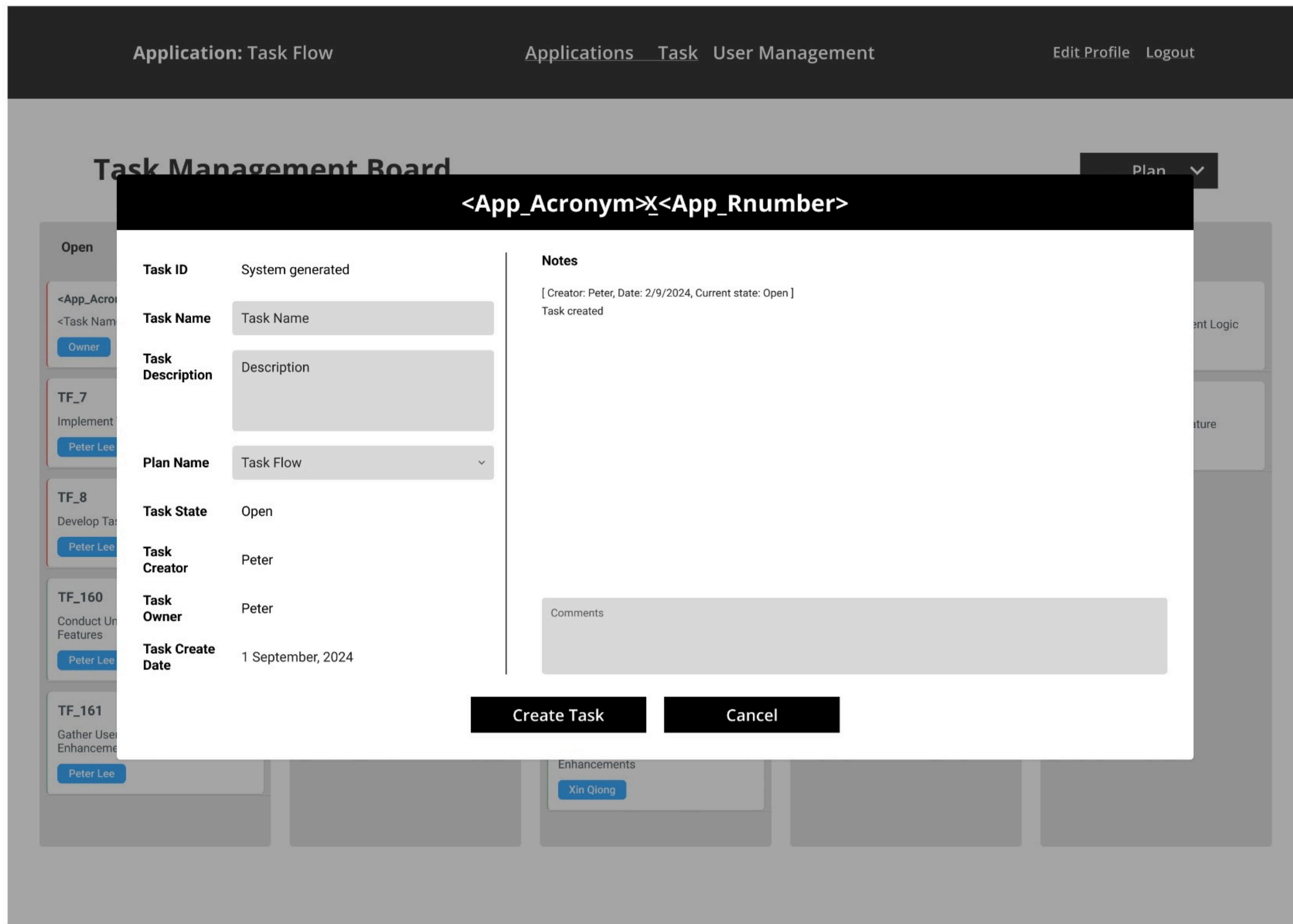
<b>Open</b>	<b>Task ID</b>	System generated
<App_Acronym> <Task Name> Owner Peter Lee	<b>Task Name</b>	Task Name
TF_7 Implement Peter Lee	<b>Task Description</b>	Description
TF_8 Develop Ta Peter Lee	<b>Plan Name</b>	Task Flow
TF_160 Conduct Un Features Peter Lee	<b>Task State</b>	Open
TF_161 Gather User Enhanceme Peter Lee	<b>Task Creator</b>	Peter
	<b>Task Owner</b>	Peter
	<b>Task Create Date</b>	1 September, 2024

**Notes**  
[ Creator: Peter, Date: 2/9/2024, Current state: Open ]  
Task created

Comments

**Create Task**    **Cancel**

Enhancements  
Xin Qiong



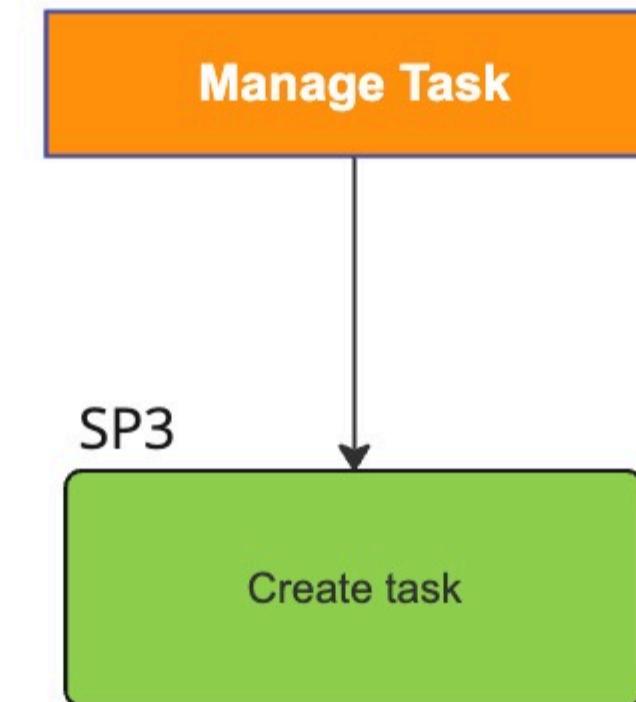
## **US\_PL\_CREATE\_TASK ACCEPTANCE CRITERIA**

### Acceptance Criteria

Define task details and Create Task

### Create Task

<b>task_name</b>	<b>Expected Result</b>	<b>Remarks</b>
✓	✓	
null	✗	<ul style="list-style-type: none"><li>mandatory field task_name is empty</li></ul>
> 255 characters	✗	<ul style="list-style-type: none"><li>task_name length out of range</li></ul>



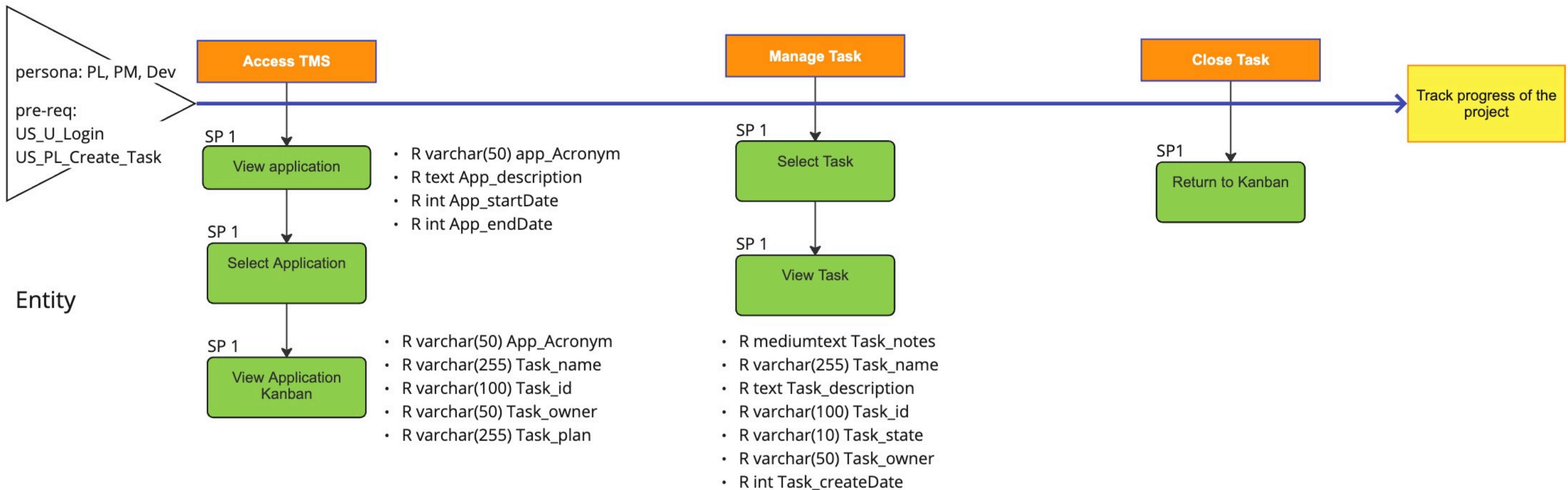
- M varchar(255) Task\_name
- O text Task\_description
- O varchar(255) Task\_plan
- O mediumtext Task\_notes
- R varchar(50) Task\_app\_Acronym
- R varchar(100) Task\_id
- R varchar(10) Task\_state
- R varchar(50) Task\_creator
- R varchar(50) Task\_owner
- R int Task\_createDate

**ID: US\_DEV\_PM\_PL\_VIEW\_TASK**

**Persona: Project Lead, Project Manager, Dev**

As PL, PM and Dev, I want to access the project to view the tasks so that I can track progress of a project.

Story Points:  
6



## US\_DEV\_PM\_PL\_VIEW\_TASK CONVERSATION

### View Task

Application: Task Flow 

Project Lead 

## Task Management Board

+ CREATE PLAN

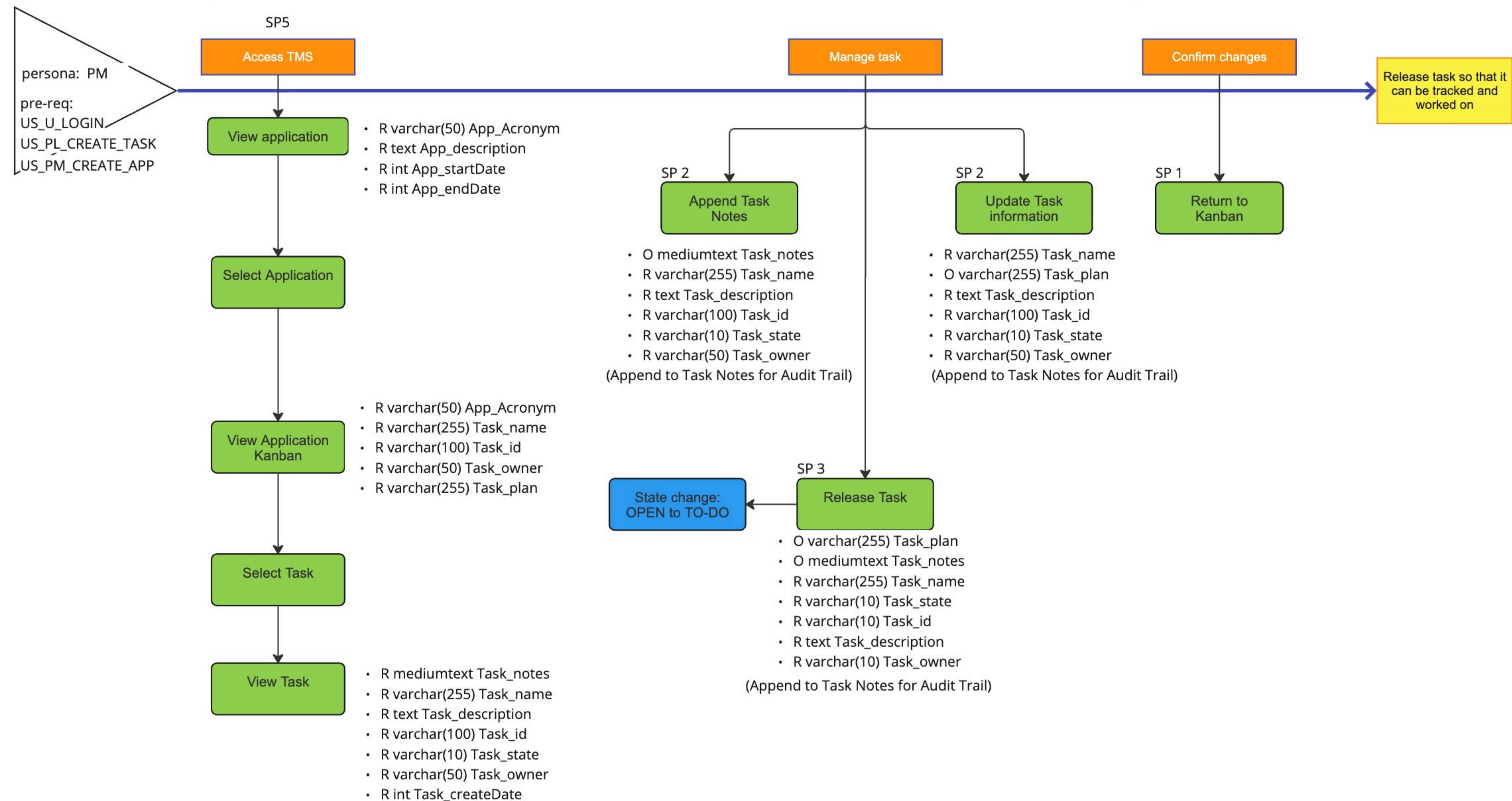
Open	To do	Doing	Done	Closed
<p>+ CREATE TASK</p> <p>&lt;App_Acronym&gt;_&lt;App_Rnumber&gt;</p> <p>&lt;Task Name&gt;</p> <p>Owner</p> <p>TF_7 Implement Task Assignment Logic Peter Lee</p> <p>TF_8 Develop Task Creation Feature Peter Lee</p> <p>TF_160 Conduct Unit Testing for Core Features Peter Lee</p> <p>TF_161 Gather User Feedback for Future Enhancements Peter Lee</p>	<p>TF_6 Implement Task Assignment Logic Wei Shan</p> <p>TF_159 Conduct Unit Testing for Core Features Wei Shan</p> <p>TF_158 Gather User Feedback for Future Enhancements Wei Shan</p>	<p>TF_5 Implement Task Assignment Logic JJ</p> <p>TF_4 Develop Task Creation Feature Yi Kiat</p> <p>TF_157 Conduct Unit Testing for Core Features Peter Lee</p> <p>TF_156 Gather User Feedback for Future Enhancements Jing</p> <p>TF_155 Gather User Feedback for Future Enhancements Xin Qiong</p>	<p>TF_3 Implement Task Assignment Logic Peter Lee</p>	<p>TF_2 Implement Task Assignment Logic Peter Lee</p> <p>TF_1 Develop Task Creation Feature Peter Lee</p>

## ID: US\_PM\_RELEASE\_TASK

### Persona: Project Manager

As a PM, I want to access the task management system, manage task and confirm the changes to perform following actions such as release the task to be available to be taken on, append task notes to include information and communicate with the team or update task information to associate plan so that the task can be properly tracked and worked on.

Story Points:  
13



# US\_PM\_RELEASE\_TASK CONVERSATION

## Release Task

Application: Task Flow

Applications Task User Management Edit Profile Logout

Task Details <App\_Acronym>X<App\_Rnumber>

Open	Task ID	<App_Acronym>_<App_Rnumber>
<App_Acronym>_<Task_Number>	Task Name	Implement Task Assignment Logic
Owner	Task Description	Develop and integrate the logic for assigning tasks within the application. This involves creating a system where tasks can be dynamically allocated to users based on predefined criteria such as availability, role, priority level.
TF_7	Plan Name	Task Flow
Implement	Task State	Open
Peter Lee	Task Creator	Peter
TF_8	Task Owner	Peter
Develop Task	Task Create Date	1 September, 2024
Peter Lee		
TF_160		
Conduct User Features		
Peter Lee		
TF_161		
Gather User Enhancements		
Peter Lee		

Notes  
[ Creator: Peter, Date: 2/9/2024, Current state: Open ]  
Task created

Comments

Xin Qiong

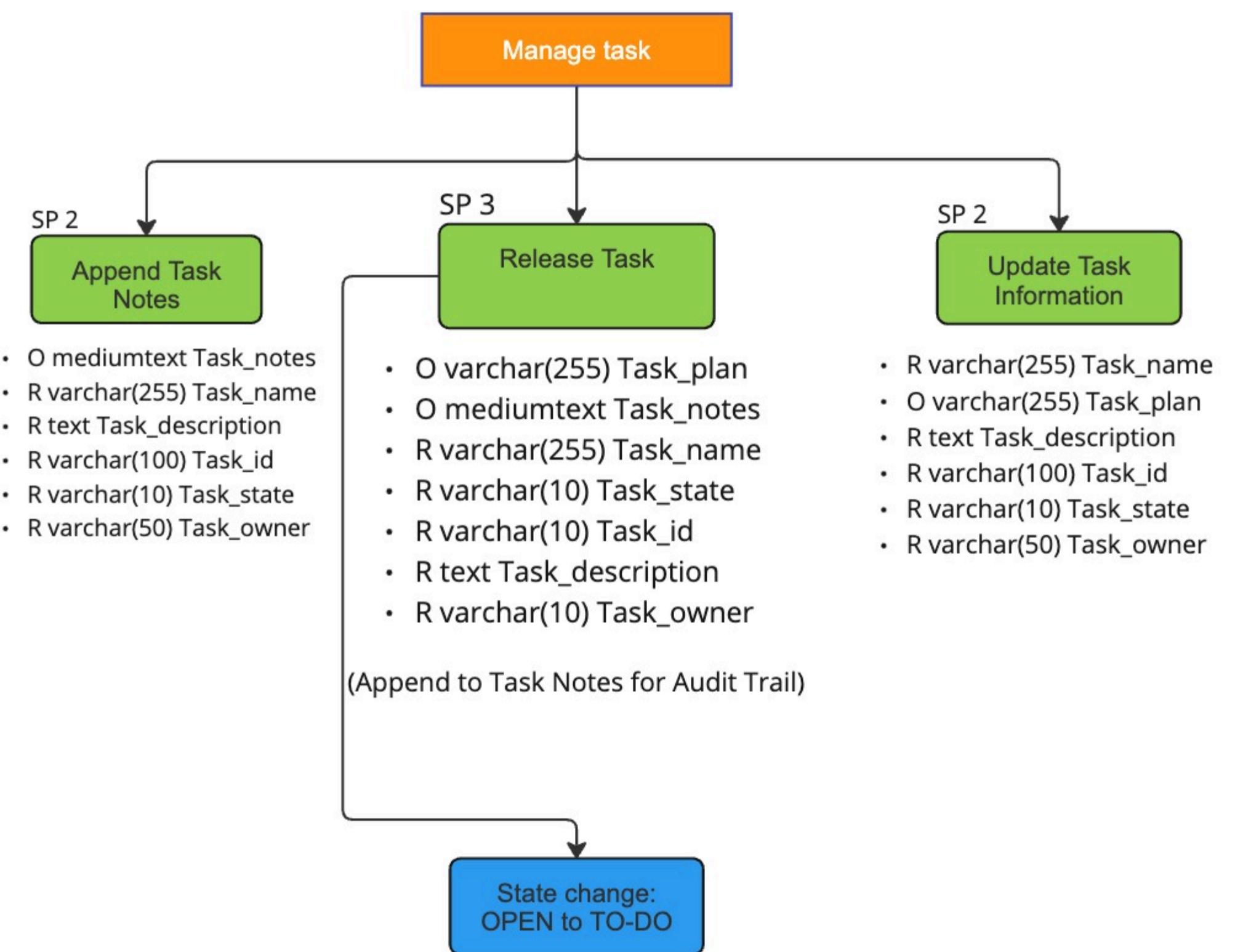
Release Task Save Changes Cancel

## US\_PM\_RELEASE\_TASK ACCEPTANCE CRITERIA

### Acceptance Criteria

Release Task

Task_plan	Task_notes	Expected Result	Remarks
✓	✓	✓	<ul style="list-style-type: none"> <li>"System auto generates notes"</li> </ul>
✓	No input / Empty	✓	<ul style="list-style-type: none"> <li>Task notes will not be appended</li> <li>"System auto generates notes"</li> </ul>
No input / Empty	✓	✓	<ul style="list-style-type: none"> <li>Task plan will not be appended</li> <li>"System auto generates notes"</li> </ul>



Update Notes

### Append Task Notes

Task_notes	Expected Result	Remarks
✓	✓	<ul style="list-style-type: none"> <li>"System auto generates notes"</li> </ul>
No Input	✓	No change in task notes

Update Task

### Update Task

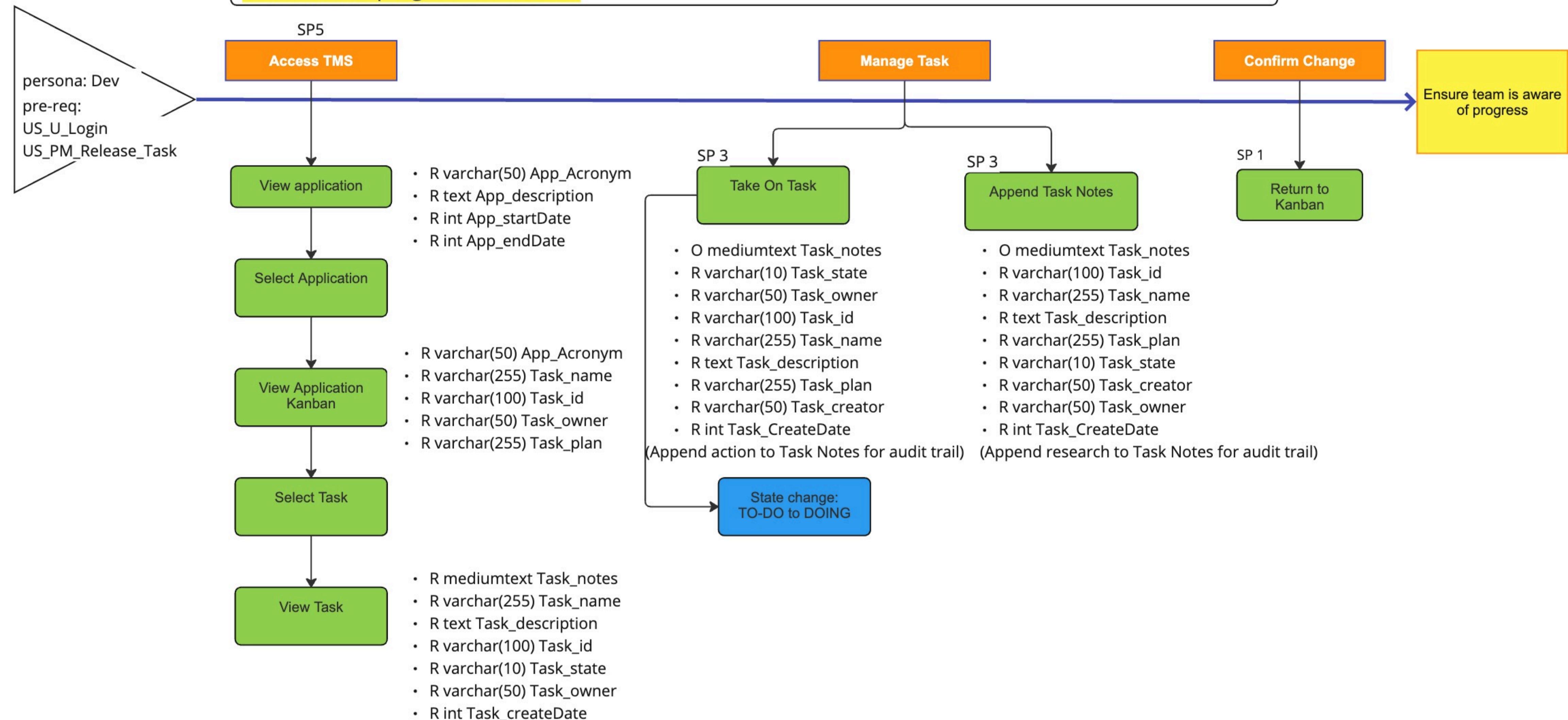
Task_Plan	Expected Result	Remarks
✓	✓	<ul style="list-style-type: none"> <li>"System auto generates notes"</li> </ul>
No input	✓	No changes in the Task_plan

## ID: US\_DEV\_TAKE\_ON\_TASK

### Persona: Dev

As a Dev, I want to access the task management system, manage task and confirm changes in order to take on a task so the team is aware the task is being worked on, append task notes for research and communicate information relating to the task so the team is aware the task is being worked on, append task notes for research and communicate information relating to the task so that my team can track the progress of the task.

Story Points:  
12



## US\_DEV\_TAKE\_ON\_TASK CONVERSATION

Conversation:

Rules &

Constraints

- **Constraints:**
  - [Append Task Notes] **Task\_notes** cannot be empty

## Take On Task

Application: Task Flow      Applications    Task    User Management      Edit Profile    Logout

Task Details

<App\_Acronym>\_<App\_Rnumber>

Open	Task ID	<App_Acronym>_<App_Rnumber>
<App_Acronym>_<Task_Number>	Task Name	Implement Task Assignment Logic
Owner	Task Description	Develop and integrate the logic for assigning tasks within the application. This involves creating a system where tasks can be dynamically allocated to users based on predefined criteria such as availability, role, priority level.
TF_7	Plan Name	Task Flow
Peter Lee	Task State	Open
TF_8	Task Creator	Peter
Peter Lee	Task Owner	Wei Shan
TF_160	Task Create Date	1 September, 2024
Gather User Requirements		
Peter Lee		
TF_161		
Peter Lee		

Notes

[ Creator: Peter, Date: 2/9/2024, Time: 09:38, Current state: Open ]  
Task created

[ Creator: Jing Yong, Date: 2/9/2024, Time: 10:20, Current state: Open ]  
I am taking on this task

Comments

Take On    Save Changes    Cancel

Xin Qiong

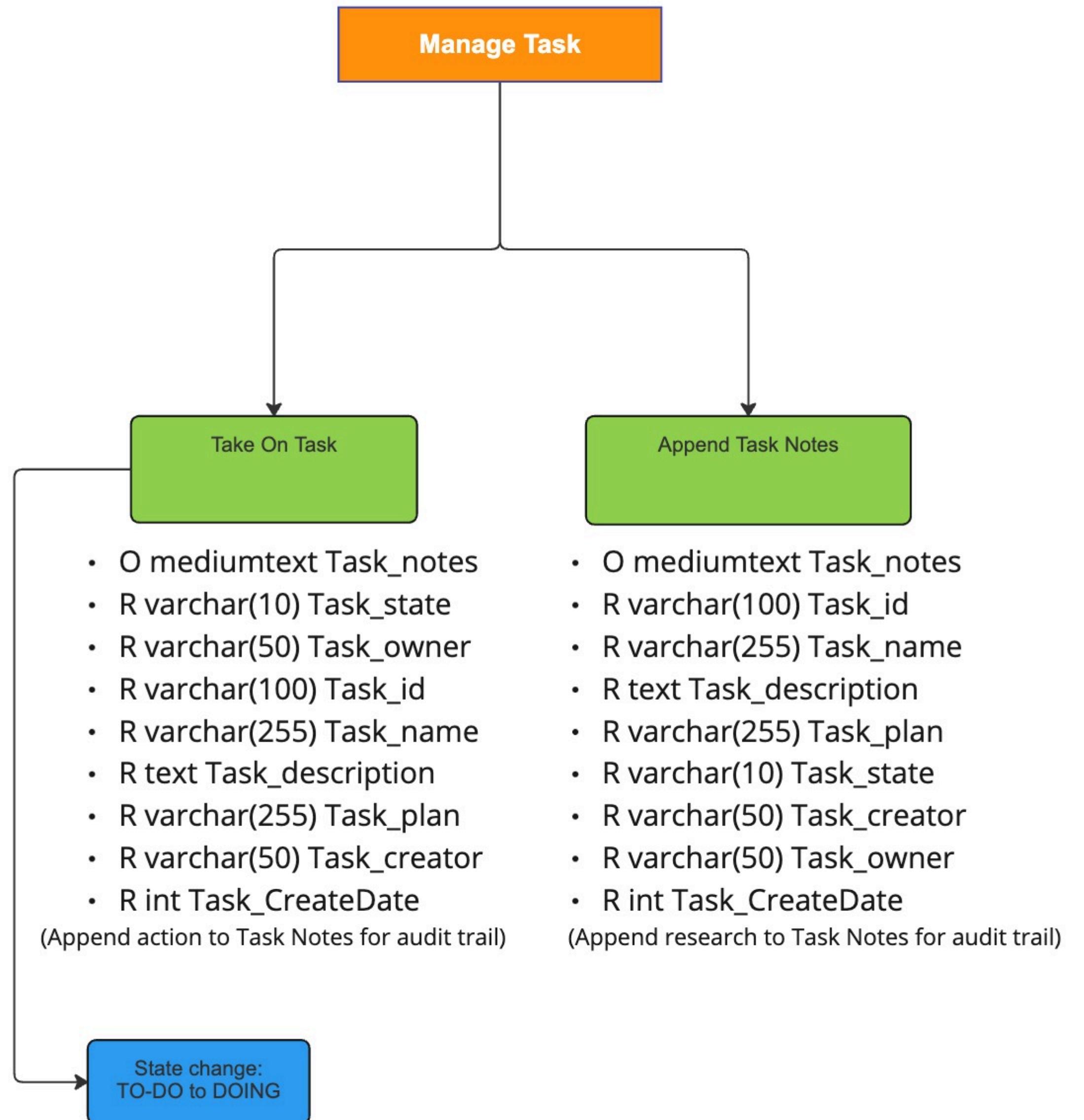
## US\_DEV\_TAKE\_ON\_TASK ACCEPTANCE CRITERIA

### Acceptance Criteria

#### Append Task Notes/Take On Task

Task_notes	Expected Result	Remarks
✓	✓	<ul style="list-style-type: none"> <li>"System auto generates notes"</li> </ul>
No input / Empty	✓	<ul style="list-style-type: none"> <li>Task notes will not be appended</li> <li>"System auto generates notes"</li> </ul>

\*Both context accept the same inputs

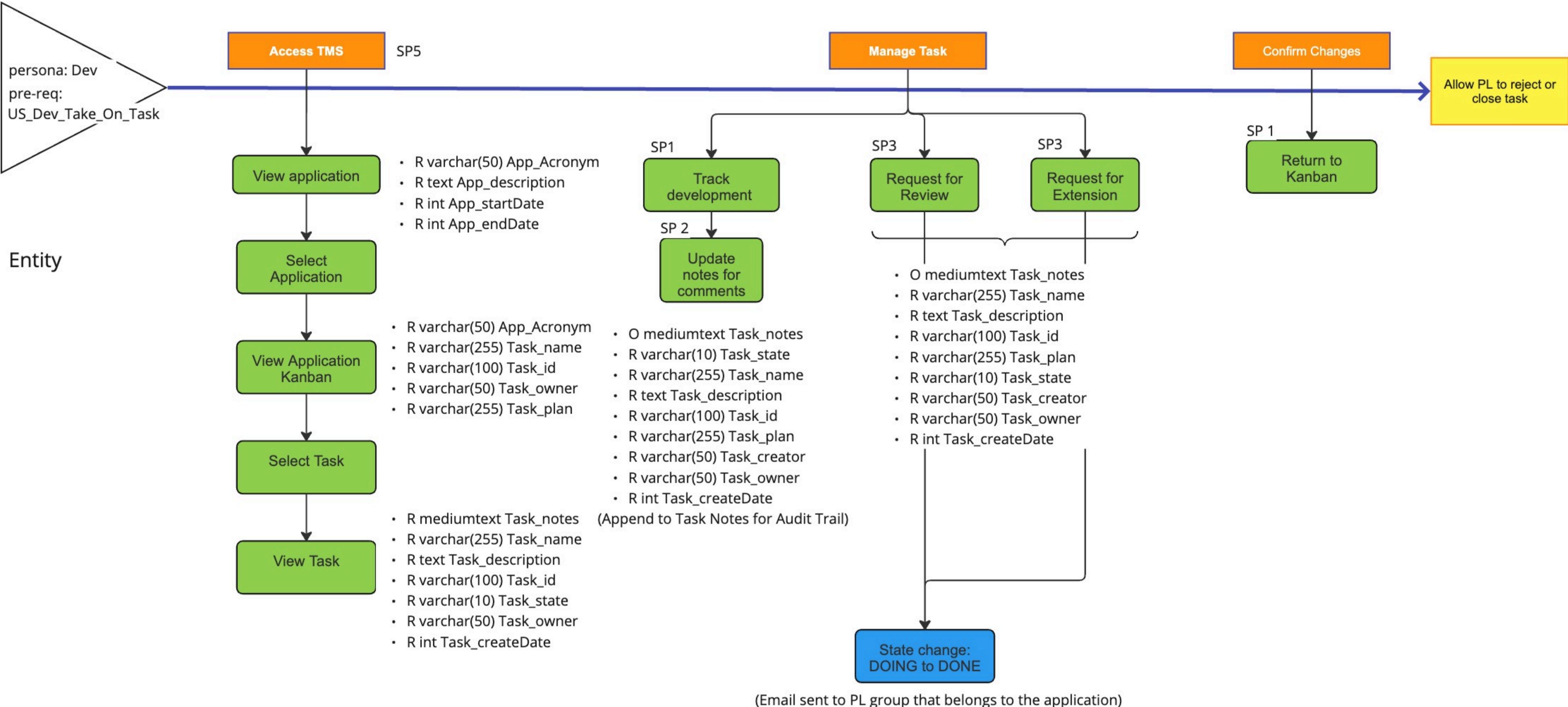


**ID: US\_DEV\_TOREVIEW\_TASK**

**Persona: Dev**

As a Dev, I want to access the task management system/manage task/confirm changes in order to update notes to track progress or to request for review for PL to verify my completion of task or to request for deadline change if I cannot finish , this is so that my PL can either reject or approve the task.

Story Points:  
15



## US\_DEV\_TOREVIEW\_TASK CONVERSATION

### To Review

Application: Task Flow      Applications    Task    User Management      Edit Profile    Logout

Task Details

<App\_Acronym>x<App\_Rnumber>

Open	Task ID	<App_Acronym>_<App_Rnumber>
<App_Acronym>x<App_Rnumber>	Task Name	Implement Task Assignment Logic
Owner	Task Description	Develop and integrate the logic for assigning tasks within the application. This involves creating a system where tasks can be dynamically allocated to users based on predefined criteria such as availability, role, priority level.
TF_7	Plan Name	Task Flow
Peter Lee	Task State	Open
TF_8	Task Creator	Peter
Peter Lee	Task Owner	Jian Yong
TF_160	Task Create Date	1 September, 2024
Conduct User Features		
Peter Lee		
TF_161		
Gather User Enhancements		
Peter Lee		

Notes

[ Creator: Peter, Date: 2/9/2024, Time: 09:38, Current state: Open ]  
Task created

[ Creator: Jing Yong, Date: 2/9/2024, Time: 10:20, Current state: Open ]  
I am taking on this task

Comments

To Review    Forfeit Task    Save Changes    Cancel

Xin Qiong

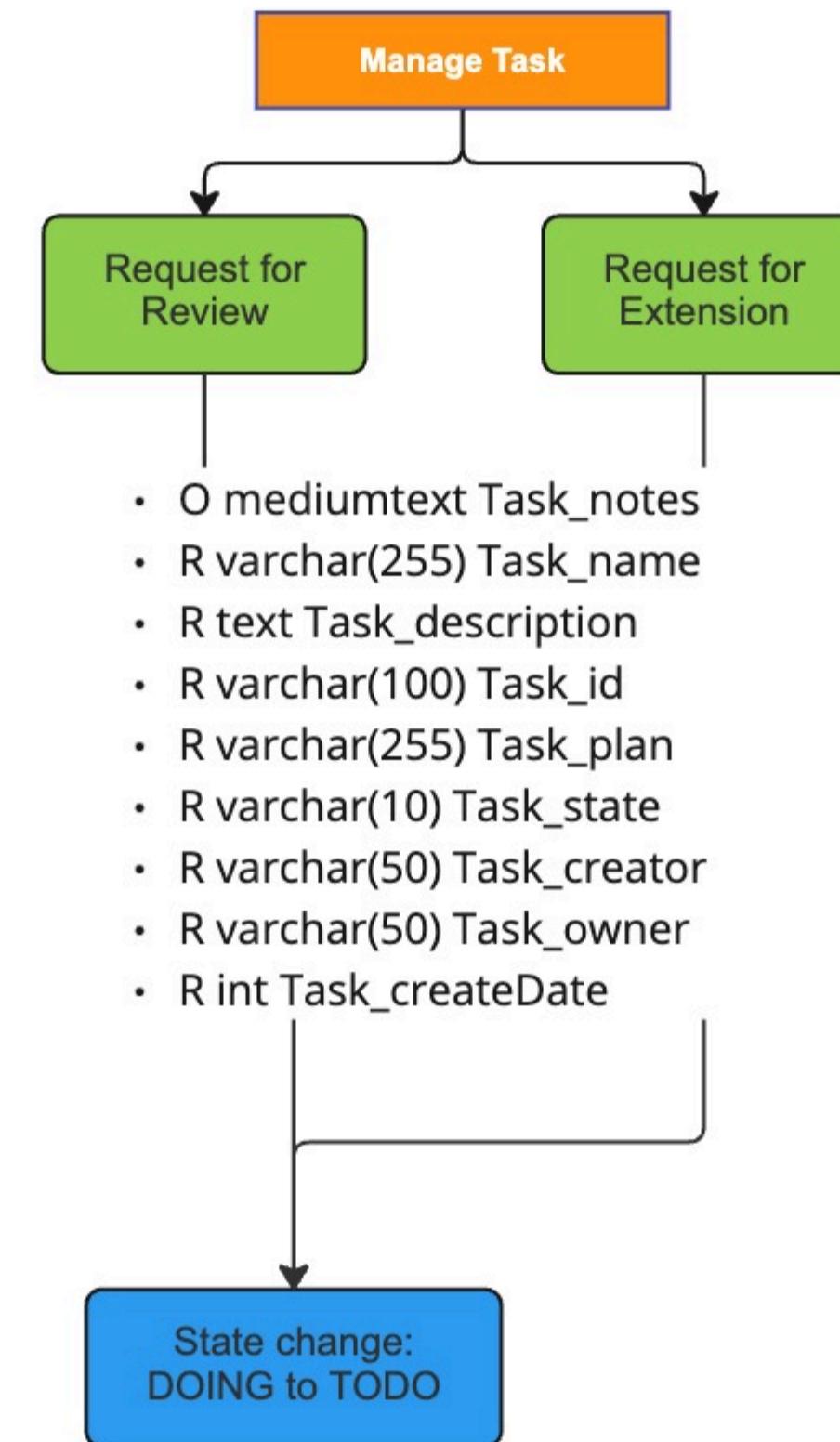
## US\_DEV\_TOREVIEW\_TASK ACCEPTANCE CRITERIA

### Acceptance Criteria

#### Review Task

ReviewTask

Task_notes	Expected Result	Remarks
✓	✓	"System auto generates notes"
Null	"System auto generates notes"	Eg. Creator, Date and time, State

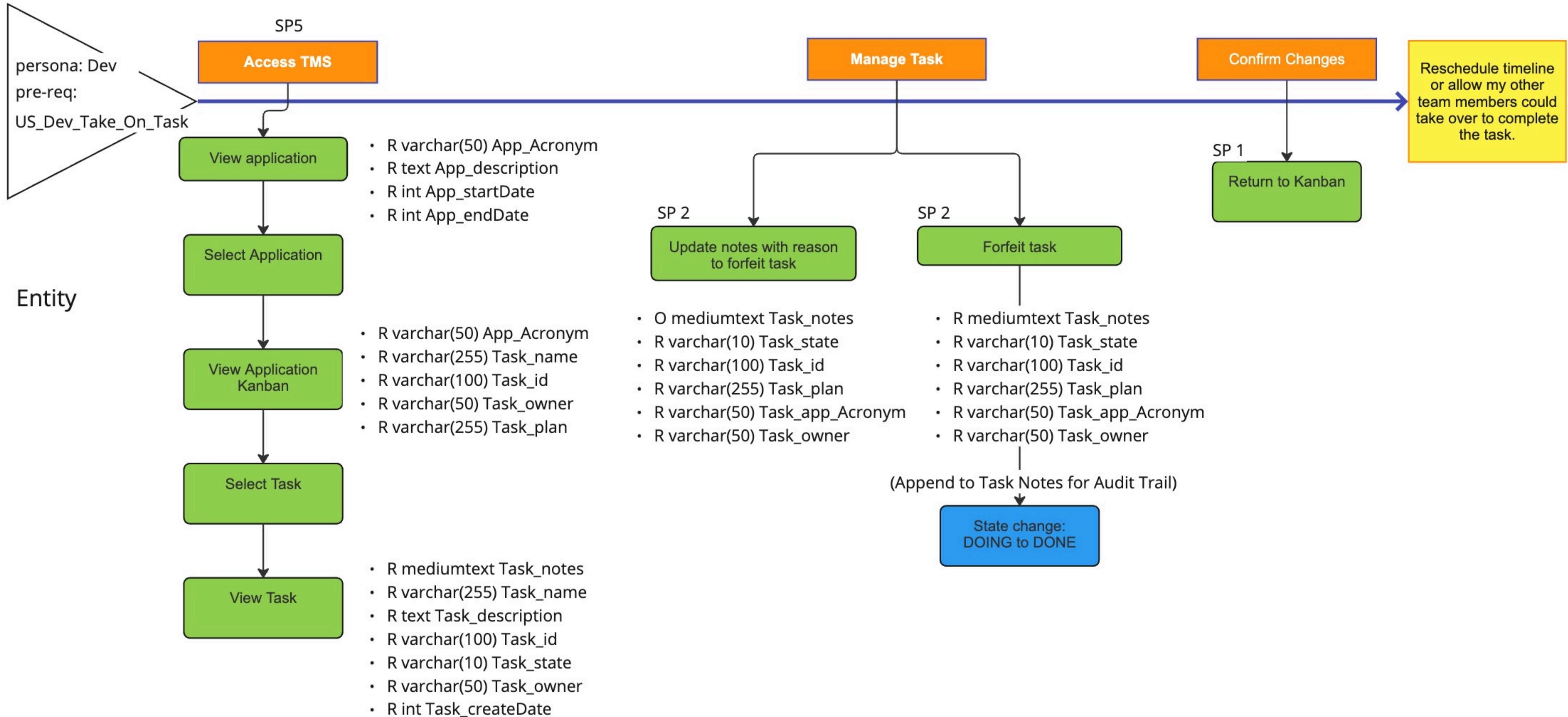


**ID: US\_DEV\_FORFEIT\_TASK**

**Persona: Dev**

As a Dev, I want to access the task management system/manage task/confirm changes in order to forfeit the task if I am not able to complete the task or to update notes to input reason why I forfeit it so that the task can be allow other team members to take over and complete the task.

Story Points:  
10



## US\_DEV\_FORFEIT\_TASK CONVERSATION

### To Forfeit

Application: Task Flow      Applications    Task    User Management      Edit Profile    Logout

Task Details

<App\_Acronym>x<App\_Rnumber>

Open	Task ID	<App_Acronym>_<App_Rnumber>	Notes
<App_Acronym>x<App_Rnumber>	Task Name	Implement Task Assignment Logic	[ Creator: Peter, Date: 2/9/2024, Time: 09:38, Current state: Open ] Task created
TF_7 Implement	Task Description	Develop and integrate the logic for assigning tasks within the application. This involves creating a system where tasks can be dynamically allocated to users based on predefined criteria such as availability, role, priority level.	[ Creator: Jing Yong, Date: 2/9/2024, Time: 10:20, Current state: Open ] I am taking on this task
Peter Lee	Plan Name	Task Flow	
TF_8 Develop Task	Task State	Open	
Peter Lee	Task Creator	Peter	
TF_160 Conduct User Features	Task Owner	Jian Yong	Comments
Peter Lee	Task Create Date	1 September, 2024	

To Review    Forfeit Task    Save Changes    Cancel

Xin Qiong

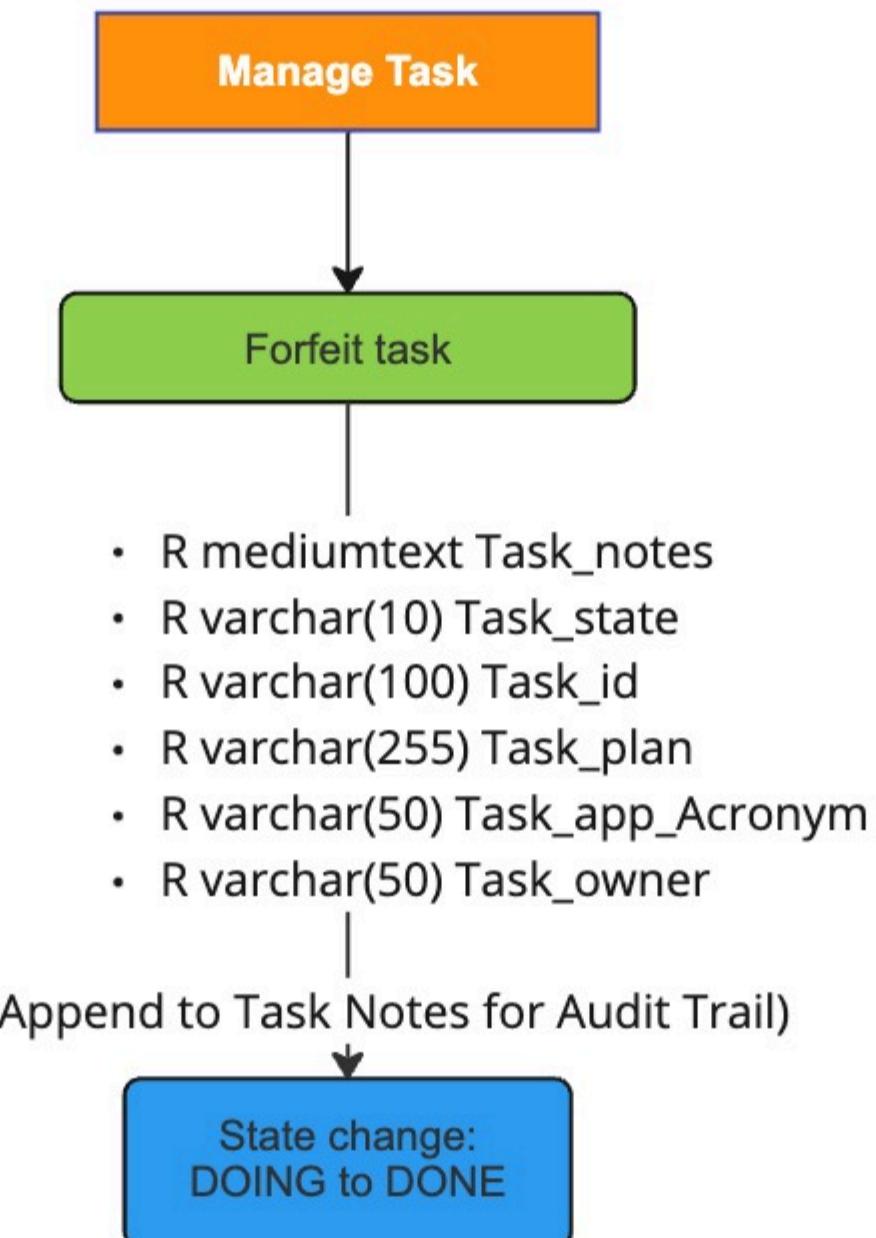
## US\_DEV\_FORFEIT\_TASK ACCEPTANCE CRITERIA

### Acceptance Criteria

ReviewTask

**Forfeit Task**

<b>Task_notes</b>	<b>Expected Result</b>	<b>Remarks</b>
✓	✓	
Null	"System auto generates notes"	Eg. Creator, Date and time, State

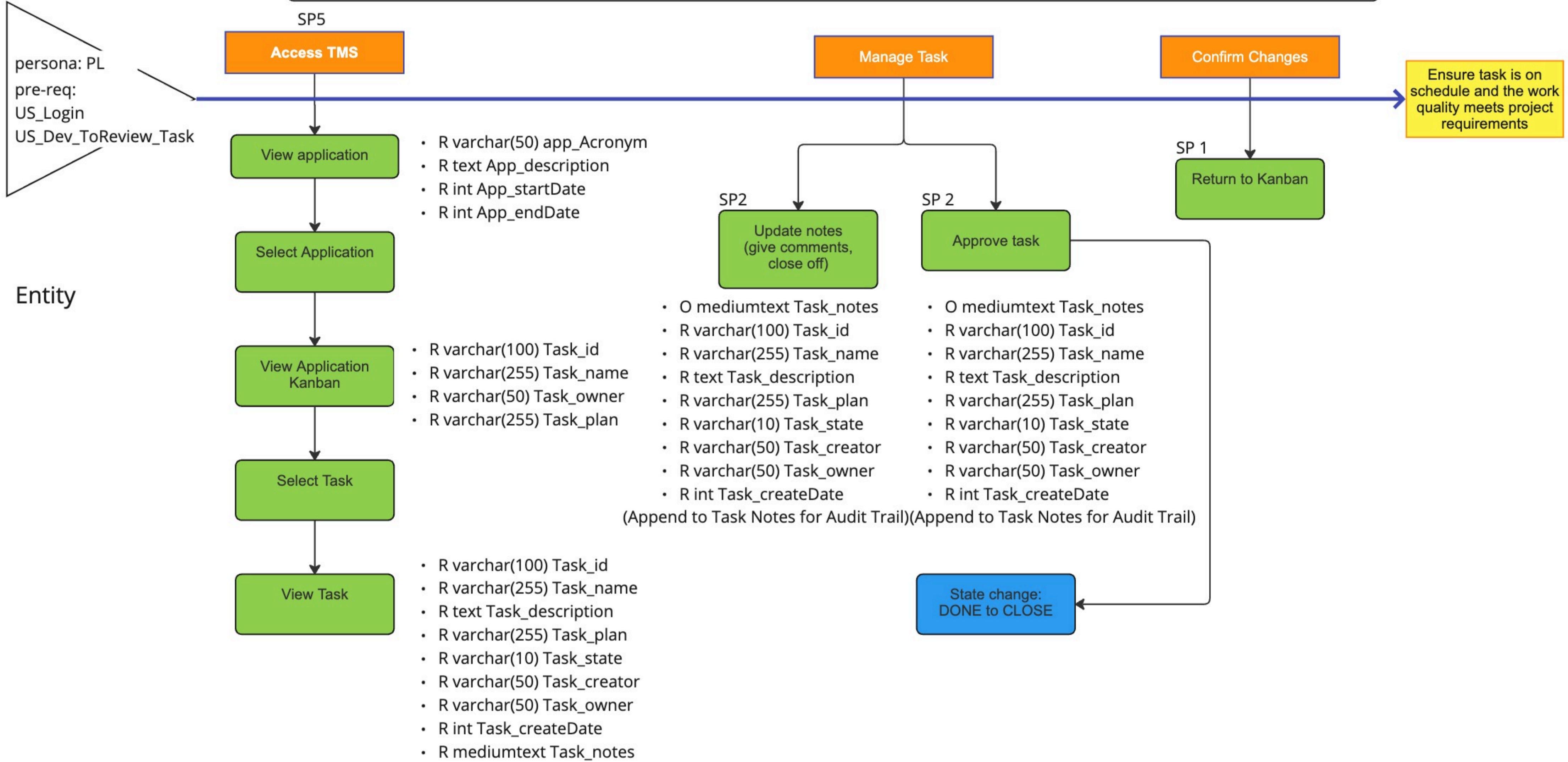


## ID: US\_PL\_APPROVE\_TASK

### Persona: Project Lead

As a PL, I want to receive email notifications and access the task management system/manage task/confirm changes to view and perform actions in the TMS/provide feedback in the task notes and approve the task/to ensure changes are saved. So that I can ensure task is on schedule and the work quality meets the project requirements.

Story Points:  
10



## US\_PL\_APPROVE\_TASK CONVERSATION

### To Approve

Application: Task Flow      Applications    Task    User Management      Edit Profile    Logout

Task ID: <App\_Acronym>\_<App\_Rnumber>

Open	Task ID	<App_Acronym>_<App_Rnumber>	Notes
<App_Acronym> <Task Name> Owner: Peter Lee	Task Name	Implement Task Assignment Logic	[ Creator: Peter, Date: 2/9/2024, Time: 09:38, Current state: Open ] Task created
TF_7 Implement Logic Peter Lee	Task Description	Develop and integrate the logic for assigning tasks within the application. This involves creating a system where tasks can be dynamically allocated to users based on predefined criteria such as availability, role, priority level.	[ Creator: Jing Yong, Date: 2/9/2024, Time: 10:20, Current state: Open ] I am taking on this task
TF_8 Develop Task Peter Lee	Plan Name	Task Flow	Comments
TF_160 Conduct User Features Peter Lee	Task State	Open	
TF_161 Gather User Enhancements Peter Lee	Task Creator	Peter	
	Task Owner	Peter	
	Task Create Date	1 September, 2024	

**Approve Task**   **Reject Task**   **Save Changes**   **Cancel**

Xin Qiong

## US\_PL\_APPROVE\_TASK ACCEPTANCE CRITERIA

### Acceptance Criteria

Approve Task

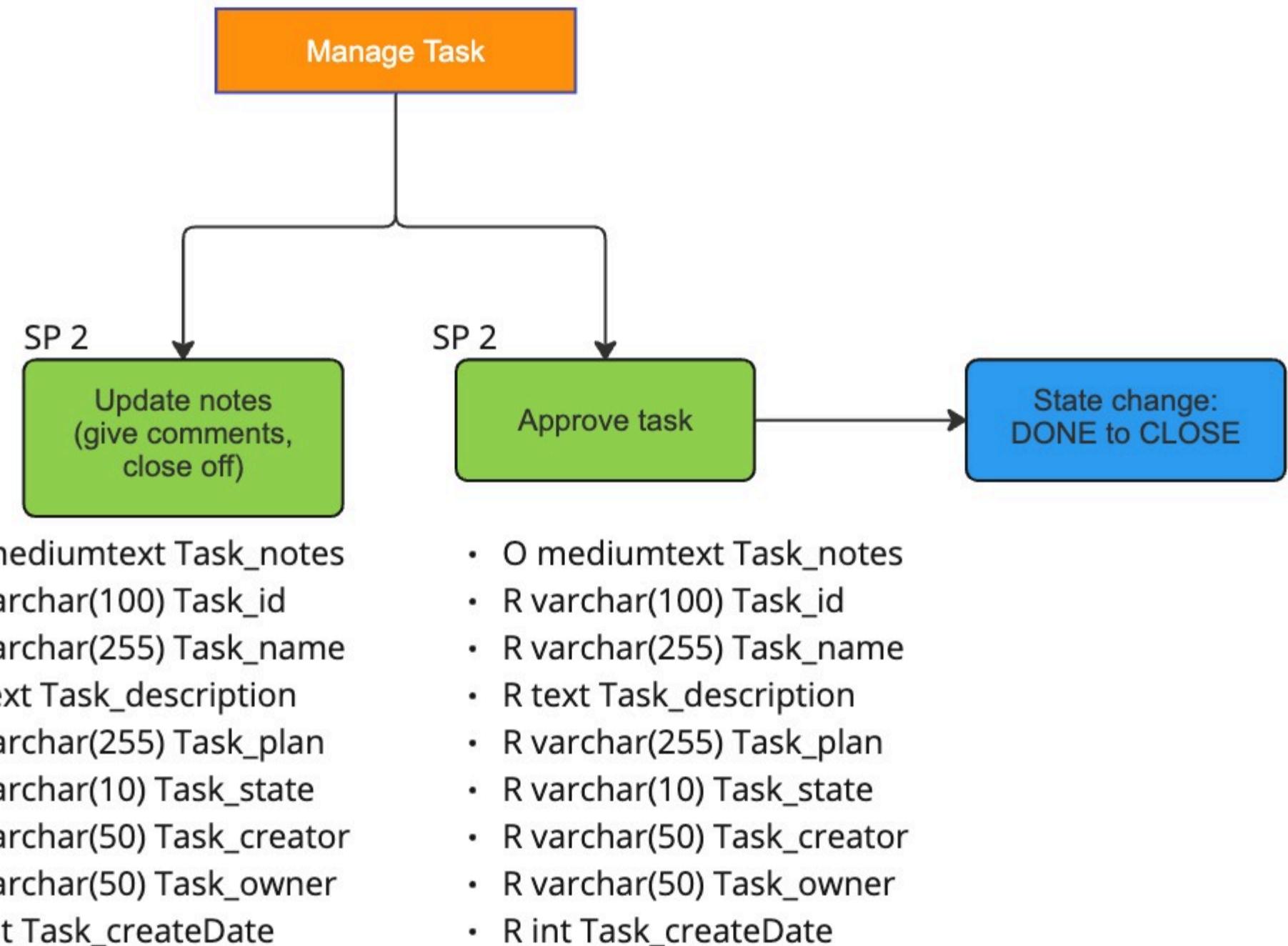
### Approve Task

Task_notes	Expected Result	Remarks
✓	✓	
Null	"System auto generates notes"	Eg. Creator, Date and time, State

Update Notes

### Update Notes

Task_notes	Expected Result	Remarks
✓	✓	
No Input	✓	No change in task notes

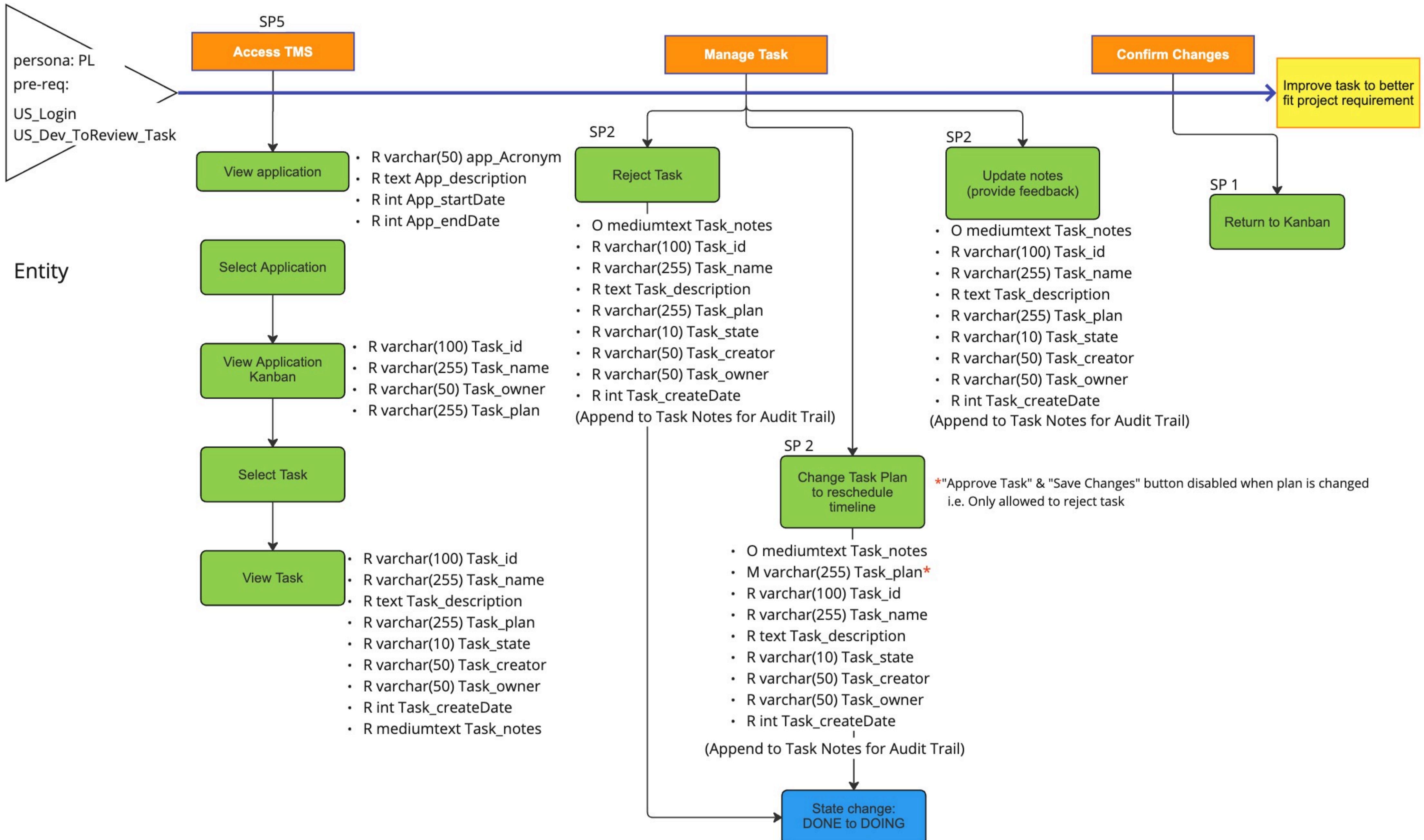


**ID: US\_PL\_REJECT\_TASK**

**Persona: Project Lead**

As a PL, I want to access the task management system/manage task/confirm changes to view and perform actions in the TMS: reject and append notes with reasons for rejection or reschedule task timeline/to ensure changes are saved. So that the dev team can fix their work to meet the requirements/ follow the new timeline of the project plan.

Story Points:  
12



## US\_PL\_REJECT\_TASK CONVERSATION

Conversation:  
Rules &  
Constraints

- **Rule:**
  - *Rejected task is assigned to the previous task owner*
  - If there is a change in task plan, "Approve Task" & "Save Changes" button disabled, only "Reject Task" button and "Cancel" button is enabled

### To Reject

The screenshot shows the 'Task Flow' application interface. At the top, the navigation bar includes 'Application: Task Flow', 'Edit Profile', and 'Logout'. Below the header, a sidebar on the left lists several tasks with their status (e.g., Open, Pending, Approved) and creator (e.g., Peter Lee). The main content area displays a task detail view for a task with ID <App\_Acronym>\_<App\_Rnumber>. The task details include:

- Task ID:** <App\_Acronym>\_<App\_Rnumber>
- Task Name:** Implement Task Assignment Logic
- Task Description:** Develop and integrate the logic for assigning tasks within the application. This involves creating a system where tasks can be dynamically allocated to users based on predefined criteria such as availability, role, priority level.
- Plan Name:** Task Flow
- Task State:** Open
- Task Creator:** Peter
- Task Owner:** Peter
- Task Create Date:** 1 September, 2024

The notes section contains two entries:

- [Creator: Peter, Date: 2/9/2024, Time: 09:38, Current state: Open]  
Task created
- [Creator: Jing Yong, Date: 2/9/2024, Time: 10:20, Current state: Open]  
I am taking on this task

A comments section is present but empty. At the bottom of the task detail view, there are four buttons: 'Approve Task' (green), 'Reject Task' (red, currently active), 'Save Changes' (disabled, greyed out), and 'Cancel' (black).

## To Reject - Buttons Disabled

Application: Task Flow      Applications Task User Management      Edit Profile Logout

Task Details

<App\_Acronym>X<App\_Rnumber>

Open	Task ID	<App_Acronym>_<App_Rnumber>
<App_Acronym>_<Task Name>	Task Name	Implement Task Assignment Logic
Owner	Task Description	Develop and integrate the logic for assigning tasks within the application. This involves creating a system where tasks can be dynamically allocated to users based on predefined criteria such as availability, role, priority level.
TF_7	Plan Name	Sprint 2
Implement	Task State	Open
Peter Lee	Task Creator	Peter
TF_8	Task Owner	Peter
Develop Task	Task Create Date	1 September, 2024
Peter Lee		
TF_160		
Conduct User Features		
Peter Lee		
TF_161		
Gather User Enhancements		
Peter Lee		

Notes

[ Creator: Peter, Date: 2/9/2024, Time: 09:38, Current state: Open ]  
Task created

[ Creator: Jing Yong, Date: 2/9/2024, Time: 10:20, Current state: Open ]  
I am taking on this task

Comments

Close Task    Reject Task    Save Changes    Cancel

Xin Qiong

## US\_PL\_REJECT\_TASK ACCEPTANCE CRITERIA

### Acceptance Criteria

Reject Task

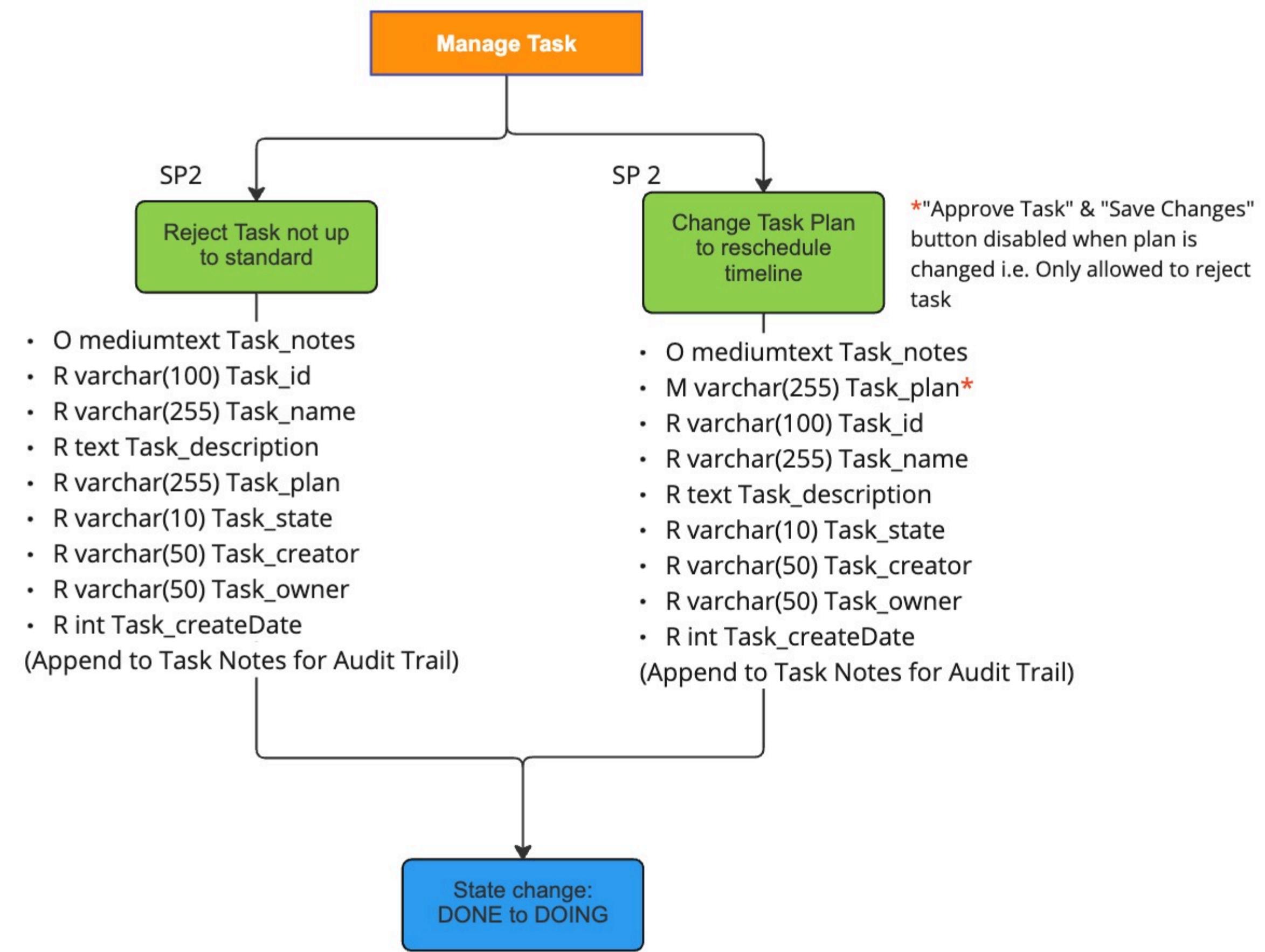
Reject Task

Task_notes	Expected Result	Remarks
✓	Notes appended with system auto generates notes	
Null	"System auto generates notes"	Eg. Creator, Date and time, State

Change Task Plan

Change Task Plan (Reschedule Timeline)

Task_Plan	Expected Result	Remarks
✓	"Approve Task" and "Save Changes" Buttons disabled	
Null	✓	Task will potentially keep in view (KIV state)



\*"Approve Task" & "Save Changes" button disabled when plan is changed i.e. Only allowed to reject task