CLASS 4 Sprint 3 Technical Requirements

AGENDA

- O Sprint 2 PBIs updated descriptions, and test scenarios
- Sprint 3 PBIs descriptions, updated and new attributes, test data, and test cases

Product Backlog

1	VIEW-TASK-TABLE VIEW	1
2	VIEW-TASK-DETAIL	
3	ADD-TASK-BASIC	2
4	DELETE-TASK	
5	EDIT-TASK-BASIC	
6	ADD-STATUS	3
7	EDIT-STATUS	
8	DELETE-STATUS	
9	NESTED-PUBLIC-PATH	
10	SORT-TASK-BY-STATUS-TABLE-VIEW	4
11	FILTER-TASK-BY-STATUS-TABLE-VIEW	
12	LIMIT-TASKS-IN-STATUS	
13	VALIDATE-INPUT-FE-BASIC	
14	VALIDATE-INPUT-BE-BASIC	

- Release-Level Priority
- The priority is modified to accommodate for the level of difficulties of each PBI

- Must-have
- Should-have
- Could-have

Nominal Sprint Tasks

- O in-complete tasks from previous Sprint may be carried forward to current Sprint backlog
- O (at the beginning of the Sprint) commit PBI (Sprint goal) to advisor
- O share what the team have learned on this Sprint Spike
- development of committed PBI in Sprint backlog
 [each PBI should be broken down to tasks such as create DB schema,
 create entity class, create controller, test endpoint with postman, deploy
 on server, ...]
- review and UAT completed PBI with advisor
- O next Sprint Spike

Sprint 2 PBI Descriptions

PBI#	PBI NAME	PBI DESCRIPTION / CONDITIONS
3	ADD-TASK-BASIC	 When the user click on "Add" button, the task detail modal window is shown with options to "Save" and "Cancel". "Save" is enabled only if the taskTitle is NOT empty. 1.1 The user can add the Task's details: Title [REQUIRED], Description [OPTIONAL], Assignees [OPTIONAL], Status [default: No Status] 1.2 FE does NOT trim any field while the user enters the data on these fields. FE must trim task details before sending to BE. 1.3 On "Save" FE sends request to BE, On "Cancel" returns to previous page BE assumes that the request body contains valid fields (validation will be implemented in PBI14.) DB: inserts data and auto inserts createdOn and updatedOn (current date, time), dateTime data are NOT provided by BE If DB insert is successful, BE returns status code 201 and FE shows "The task has been successfully added" FE Shows updated TableView with added task

Sprint 2 PBI Descriptions

PBI#	PBI NAME	PBI DESCRIPTION / CONDITIONS
4	DELETE-TASK	 When the user click on "Delete" for a task, a confirmation modal window is shown showing showing task running number (in the table) and taskTitle to be deleted. "Confirm" and "Cancel" options are provided. When "Confirm", FE sends request to BE to delete the specified task. On DB deletion success, BE returns status code 200, FE shows "The task has been deleted" On failed deletion of invalid taskID, BE returns status code 404, FE shows "An error has occurred, the task does not exist." FE shows updated task table

Sprint 2 PBI Descriptions

PBI#	PBI NAME	PBI DESCRIPTION / CONDITIONS
5	EDIT-TASK-BASIC	 When the user clicks on "Edit" button for a task, a modal window with Task-Detail is shown and all fields, except DateTime fields are editable, with options to "Save" or "Cancel". "Save" is enabled only if the form is modified by the user. FE does NOT trim any field while the user enters the data on these fields. FE must trim task details before sending to BE. On "Save", FE sends request to BE. On "Cancel" no request is made to BE, FE then returns to previous page On successful update, FE shows "The task has been updated" and returns to the previous page
		5. On failed update (invalid taskID), BE returns 404 status code and FE shows "An error has occurred, the task does not exist."

Sprint 2 Test Scenarios

PBI	TEST ID	Test Scenario	Expected Results
3	TC-PBI3-ADD- TASK-BASIC-1	normal – no taskTitle and cancel	 "Save" button is disable FE does not send request to BE and returns to previous page
		normal – no OPTIONAL fields and status is not specified	 FE does not send createdOn and updatedOn to BE New task is created successfully. FE shows OPTIONAL fields correctly. The status is "No Status", createdOn and updatedOn are the same.
	TC-PBI3-ADD- TASK-BASIC-3	normal – max size in every field; "To Do"	1. New task is created successfully with every character stored in the database and the status is "To Do".
		normal – with leading and trailing whitespace; "Done"	 New task is created successfully. FE has trimmed leading and trailing whitespace BE also trim leading and trailing whitespace (if exist)

Sprint 2 Test Scenarios

PBI	TEST ID	Test Scenario	Expected Results
4	TC-PBI4- DELETE-TASK-1	normal – cancel	 FE shows confirmation message with task running number and title When click "Cancel", FE does not send request to BE and returns to previous page. The task is shown in the task table.
	TC-PBI4- DELETE-TASK-2	normal – successful delete	 When click "Confirm", FE send request to BE BE successfully delete the task and returns 200 FE shows "The task has been deleted" and the deleted task is not shown in the task table
	TC-PBI4- DELETE-TASK-3	failed – task not exist (deleted by someone else)	 FE shows confirmation message with task running number and title BE returns 404 FE shows "The task does not exist" and the task is not shown in the task table

Sprint 2 Test Scenarios

PBI	TEST ID	Test Scenario	Expected Results
4	TC-PBI5-EDIT- TASK-BASIC-1	normal – no modification and cancel	 All fields are editable except createdOn and updatedOn "Save" button is disable at the beginning and when taskTitle is empty FE does not send request to BE and returns to previous page with task details unchanged
		normal – change all editable fields	 FE shows "The task has been updated" The task is updated in DB and task table view correctly, createdOn is unchanged, and updatedOn has been changed to the current time
		normal – change OPTIONAL fields to null	 FE shows "The task has been updated" The task is updated in DB and task table view correctly, createdOn is unchanged, and updatedOn has been changed to the current time
	TC-PBI5-EDIT- TASK-BASIC-4	failed – no task	 BE returns 404 FE shows "The task does not exist" and on close of message window, returns to previous page

task Attributes: v2 [PBI6–]

Attribute Name	Description / Constraints	Example
taskTitle	Task name : UTF-8 TEXT; Limit to 100 characters; NOT NULL; NOT EMPTY; Leading and trailing whitespaces are trimmed;	design API specs for PBI1–2
taskDescription	Task description : UTF-8 TEXT; Limit to 500 characters; OPTIONAL; NOT EMPTY; Leading and trailing whitespaces are trimmed;	need to specify endpoints, request body, response body, status
taskAssignees	Task assignees: UTF-8 TEXT; Limit to 30 characters; OPTIONAL; NOT EMPTY; Leading and trailing whitespaces are trimmed.	Pang; Pong;
taskStatus	Task status : applicable statuses are stored in status table; NOT NULL; The default value is 'No Status';	To Review
createdOn	Task creation date/time (on DBMS) : DATETIME; NOT NULL;	2024-04-19 01:00:00
updatedOn	Task last update date/time (on DBMS): DATETIME; When a task is created, updatedOn is the same as createdOn; NOT NULL;	2024-04-20 18:00:00

status Attributes: v1 [PBI6—]

Attribute Name	Description / Constraints	Example
statusName	Status name : UTF-8 TEXT; Limit to 50 characters; NOT NULL; NOT EMPTY; UNIQUE Leading and trailing whitespaces are trimmed;	To Do
statusDescription	Status description : UTF-8 TEXT; Limit to 200 characters; OPTIONAL; NOT EMPTY; Leading and trailing whitespaces are trimmed;	This item hasn't been started

PBI#	PBI NAME	PBI DESCRIPTION / CONDITIONS
6	ADD-STATUS	 When the user clicks on "Manage Status" menu, the Status table listing existing statuses is shown with statusName and statusDescription. User has choice to Add, Edit, or Delete Status. The "No Status" status cannot be edited or deleted. When "Add" is clicked, a modal window to add a new status is shown, with options to "Save" or "Cancel". "Save" is enabled only if the statusName is NOT empty. User enter status Name [Required] and Description [Optional] . The statusName must be unique (uniqueness is NOT tested in this PBI) 1 FE does NOT trim any field while the user enters the data on these fields. FE must trim status details before sending to BE. When user click "Save", FE sends request to BE On success, BE returns 200, FE shows a message "The status has been added" and then returns the previous page to show the updated Status Table On failure, BE returns 400 or 500, FE shows a message "An error has
		occurred, the status could not be added."

PBI#	PBI NAME	PBI DESCRIPTION / CONDITIONS
7	EDIT-STATUS	 When the user clicks on "Edit" button for a Status, the Status-Detail modal window is shown and all fields are editable, with options to "Save" or "Cancel". 1.1 the "No Status" status cannot be edited 1.2 "Save" is enabled only if the form is modified by the user and not empty 1.3 FE does NOT trim any field while the user enters the data on these fields. FE must trim status details before sending to BE. On "Save", FE sends request to BE. On "Cancel", no request is made to BE, FE then returns to previous page. On successful update, FE shows "The status has been updated" and returns to the previous page. The status table and task table are shown with the updated name or description. On failed update (invalid statusID), BE returns 404 status code and FE shows "An error has occurred, the status does not exist." User can click "Close" or "Back" to return to previous page.

PBI#	PBI NAME	PBI DESCRIPTION / CONDITIONS
8	DELETE-STATUS	 The "No Status" status cannot be deleted If there is no task under the specified status, FE opens modal window asking the user "Do you want to delete <statusname> status?" "Confirm" and "Cancel" options are provided.</statusname> When "Confirm", FE sends request to BE to delete the status. If the deletion is successful, BE returns 200 and FE shows "The status has been deleted". In the case the status does not exist, BE returns 404 and FE shows "An error has occurred, the status does not exist." When "Cancel", FE does not send request to BE and returns to previous page

PBI#	PBI NAME	PBI DESCRIPTION / CONDITIONS
8	DELETE-STATUS	 3. If there are tasks in the specified status, FE opens modal window asking user "There are tasks in <statusname> status. In order to delete this status, the system must transfer tasks in this status to existing status. Transfer tasks to [drop-down of existing statuses] ""Transfer and Delete" and "Cancel" options are provided. 3.1 "Transfer and Delete" is enable only when destination status is selected (there is no default) 3.2 When "Transfer and Delete", FE sends request to BE to transfer tasks in to-delete status to destination status and delete the to-delete status. If the transfer and deletion is successful, BE returns 200 and FE shows "The task(s) have been transferred and the status has been deleted". In the case the status is no longer exist, BE returns 404 and FE shows "An error has occurred, the status does not exist." 3.3 When "Cancel", FE does not send request to BE and returns to previous page</statusname> 4. FE shows updated Status table

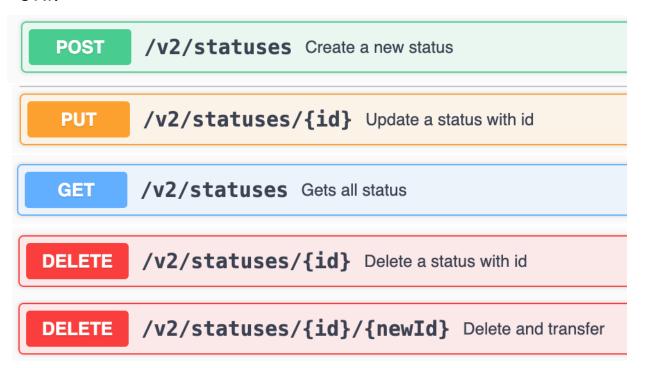
PBI#	PBI NAME	PBI DESCRIPTION / CONDITIONS
9	NESTED-PUBLIC-PATH	 The system must be accessible from internet (without VPN). This includes frontend and backend, but not database. The database must be accessible within the server only. The public url for each system is 'http://intproj23.sit.kmutt.ac.th/<teamcode>/',</teamcode> e.g., 'http://intproj23.sit.kmutt.ac.th/sy1/' 'intproj23.sit.kmutt.ac.th' is maintained by the school admin. The team may configure reverse proxy on the host machine to handle CORS issue better.

API Specifications for Sprint 3

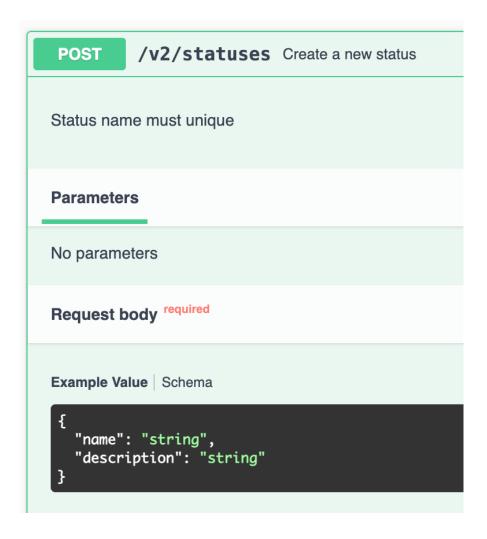
Server:

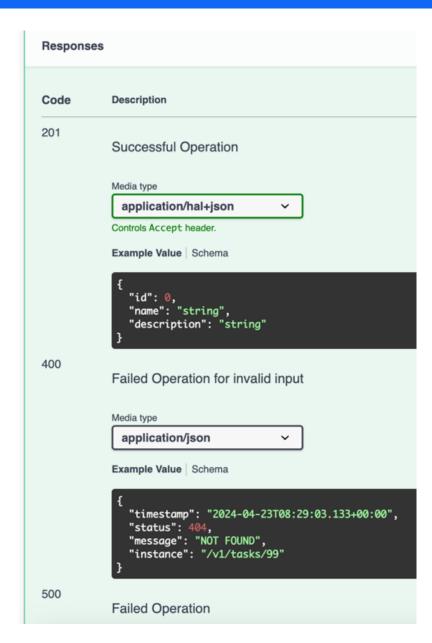
http://intproj23.sit.kmutt.ac.th/<TEAMCODE>

URI:



POST /v2/statuses





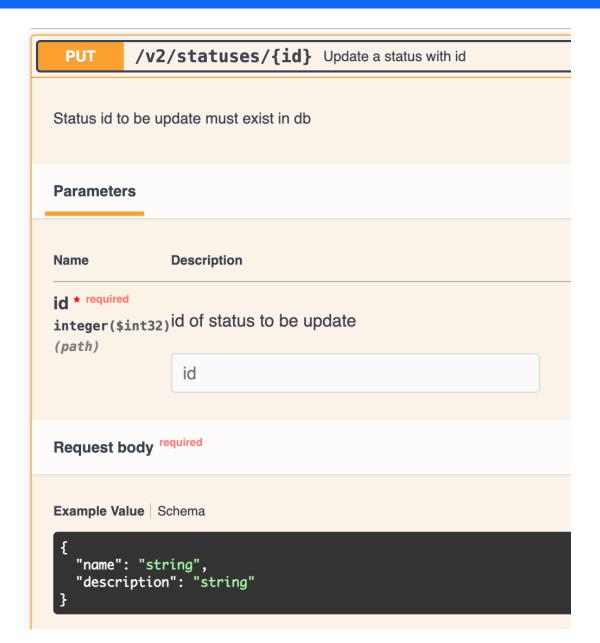
POST /v2/statuses Operation Success Example

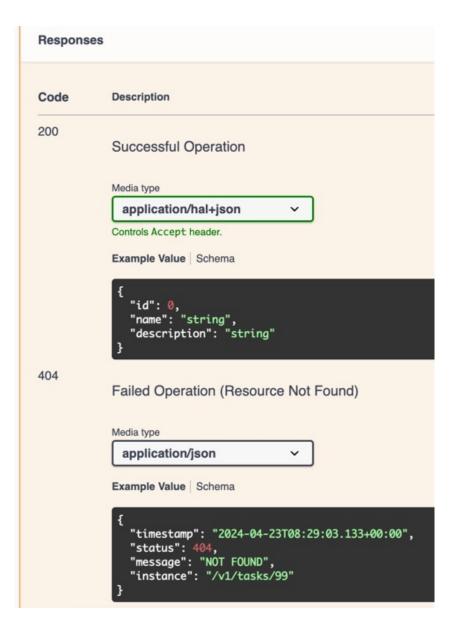
```
Curl
curl -X 'POST' \
   'http://localhost:8080/v2/statuses' \
  -H 'accept: application/hal+json' \
  -H 'Content-Type: application/json' \
  -d '{
  "name": "Waiting Some Task Finished",
  "description": "Test status description"
Request URL
 http://localhost:8080/v2/statuses
Server response
Code
            Details
201
            Response body
               "name": "Waiting Some Task Finished",
               "description": "Test status description"
```

POST /v2/statuses Operation Failed Example

```
Curl
curl -X 'POST' \
  'http://localhost:8080/v2/statuses' \
  -H 'accept: application/hal+json' \
  -H 'Content-Type: application/json' \
  -d '{
  "name": "POC",
  "description": "Test status description"
Request URL
http://localhost:8080/v2/statuses
Server response
Code
           Details
500
           Error: response status is 500
           Response body
              "timestamp": "2024-05-06T20:14:00.570+00:00",
              "status": 500,
              "error": "Internal Server Error",
              "message": "could not execute statement [Duplicate entry 'POC' for key 'statuses.name_UNIQUE']
            (description,name) values (?,?)]; constraint [statuses.name_UNIQUE]",
              "path": "/v2/statuses"
```

PUT /v2/statuses{id}





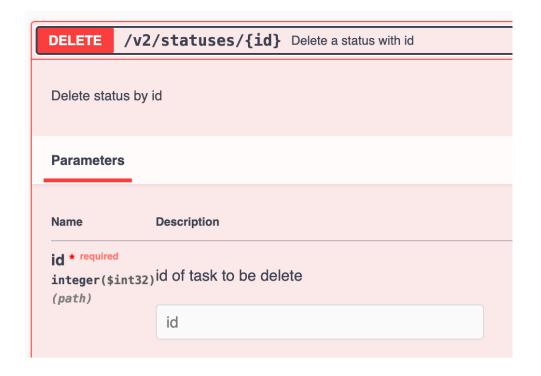
PUT /v2/statuses{id}

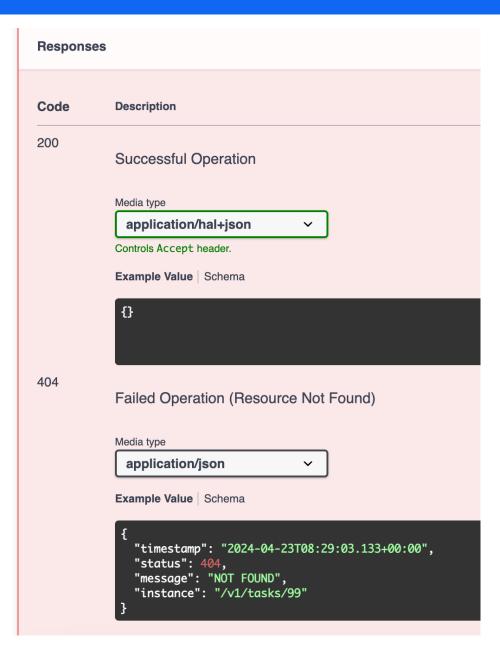
Operation Success Example Responses Curl curl -X 'PUT' \ 'http://localhost:8080/v2/statuses/7' \ -H 'accept: application/hal+json' \ -H 'Content-Type: application/json' \ "name": "Waiting", "description": "Waiting somethings" Request URL http://localhost:8080/v2/statuses/7 Server response **Details** Code 200 Response body "id": 7, "name": "Waiting", "description": "Waiting somethings"

Operation Failed Example

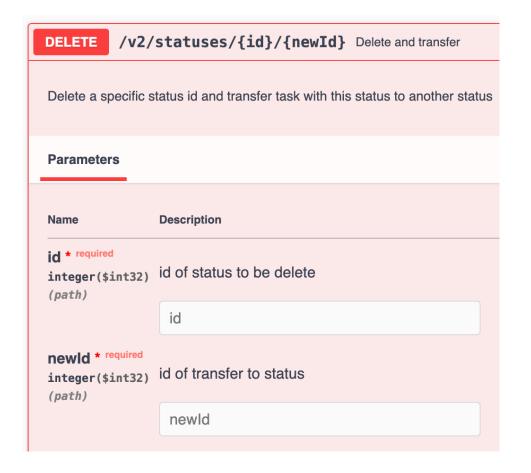
```
Responses
Curl
curl -X 'PUT' \
   'http://localhost:8080/v2/statuses/7' \
  -H 'accept: application/hal+json' \
  -H 'Content-Type: application/json' \
  -d '{
   "name": "Doing",
   "description": "Task still in processing"
Request URL
 http://localhost:8080/v2/statuses/7
Server response
Code
            Details
500
Undocumented Error: response status is 500
            Response body
              "timestamp": "2024-05-06T20:25:53.113+00:00",
              "status": 500,
               "error": "Internal Server Error",
               "message": "could not execute statement [Duplicate entry 'Doing' for key 'statuses.name_UNI(
            description=?,name=? where id=?]; constraint [statuses.name_UNIQUE]",
               "path": "/v2/statuses/7"
```

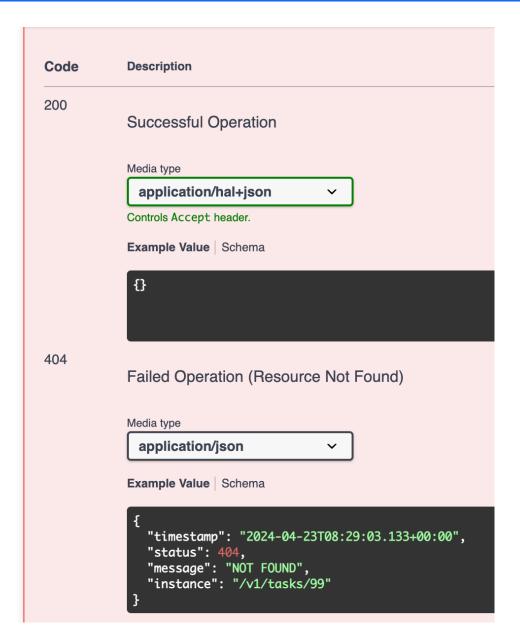
DELETE /v2/statuses{id}





DELETE /v2/statuses{id}



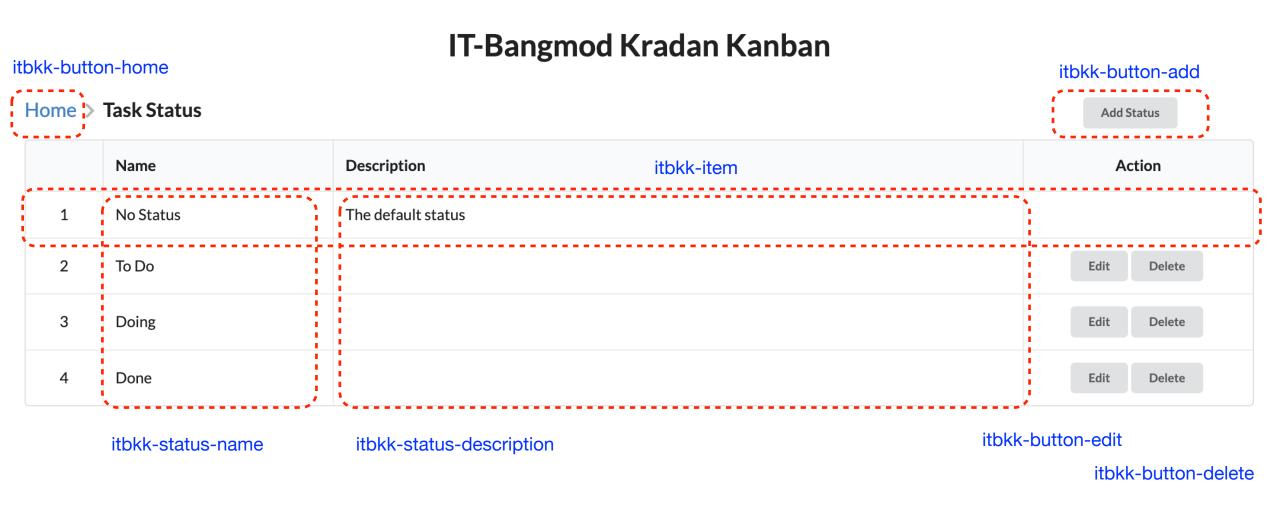


SAMPLE UI: Manage Status Button

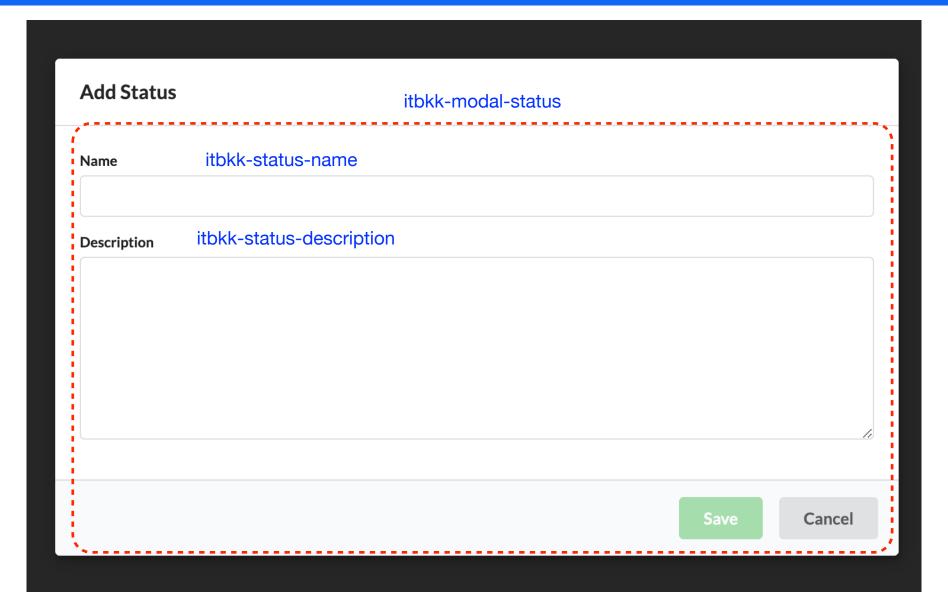
IT-Bangmod Kradan Kanban

		itbkk-manage-status	Manage Status
•	Title	Assignees	Status
1 :	TaskTitle1TaskTitle2TaskTitle3TaskTitle4TaskTitle5TaskTitle6TaskTitle7TaskTitle8TaskTitle9TaskTitle0	Assignees1Assignees2Assignees3	No Status
2 :	Repository	Unassigned	To Do
3	ดาต้าเบส	あなた、彼、彼女(私ではありません)	Doing
4 :	_Infrastructure_	ไก่งวง กับ เพนกวิน	Done
5 :	Frontend UX/UI Design	vuejs	To Do

SAMPLE UI: Statuses List



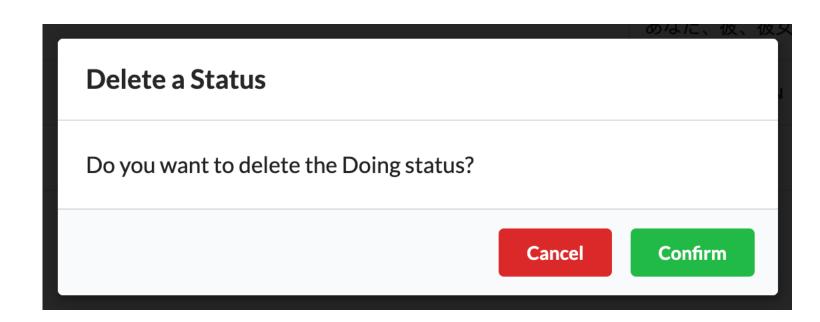
SAMPLE UI: Add Status



SAMPLE UI: Edit Status

Name	itbkk-status	s-name			
Doing					
Description	itbkk-status-	-description			
TimeZone: As	sia/Bangkok	Created On:	22/04/2024, 16:00:00	Updated On:	22/04/2024, 16:00:00
	t-timezone		itbkk-created-on		itbkk-updated-or

SAMPLE UI: Delete Status

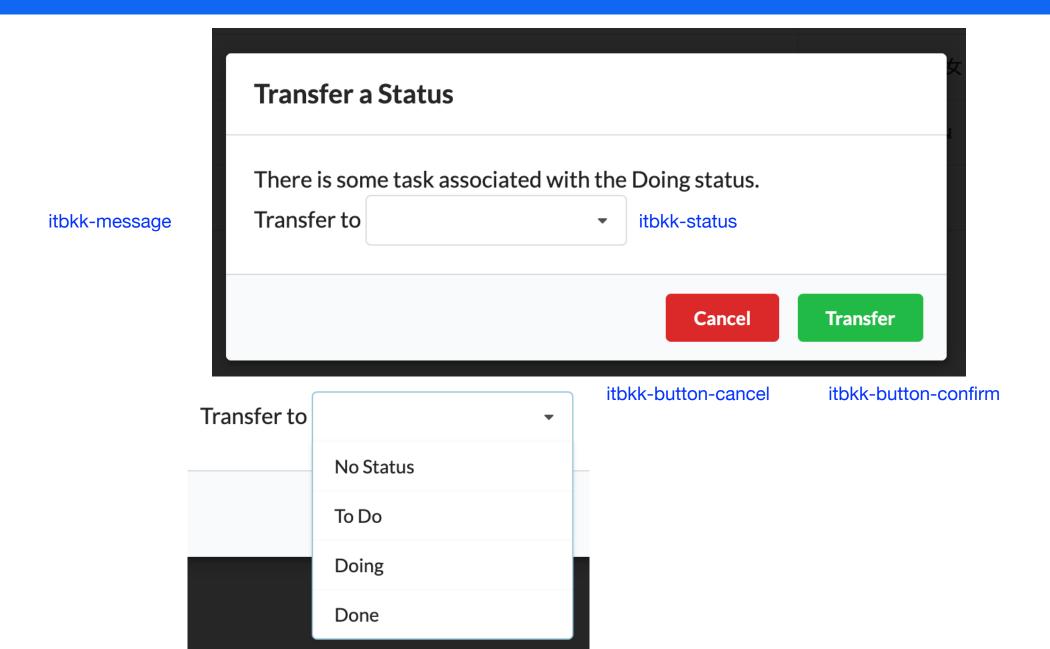


itbkk-message

itbkk-button-cancel

itbkk-button-confirm

SAMPLE UI: Transfer to Status



Sprint 3 Test Scenarios

PBI	TEST ID	Test Scenario	Expected Results
6	TC-PBI6-ADD- STATUS-1	normal – cancel	 List of statuses is shown in status table "Save" button is disable initially and enable when user add status name FE does not send request to BE and returns to previous page
	TC-PBI6-ADD- STATUS-2	normal – no OPTIONAL fields	 New status is created successfully BE returns 201 FE shows OPTIONAL fields correctly
	TC-PBI6-ADD- STATUS-3	normal – max size in every field	1. New status is created successfully with every character stored in the database
	TC-PBI6-ADD- STATUS-4	normal – with leading and trailing whitespace	 New status is created successfully. FE has trimmed leading and trailing whitespace BE also trim leading and trailing whitespace (if exist)

Sprint 3 Test Scenarios

PBI	TEST ID	Test Scenario	Expected Results
7	TC-PBI7-EDIT- STATUS-1	normal – edit "No Status", no modification and cancel	 FE shows "This status is the default status and cannot be modified" "Save" button is disable at the beginning and when taskName is empty. The button is enabled with statusName is edited. On "Cancel", FE does not send request to BE and returns to previous page with status details unchanged
	TC-PBI7-EDIT- STATUS-2	normal – change status name only	 FE shows "The status has been updated" The status is updated in DB and status table view correctly The task with updated status name is shown with new status name
	TC-PBI7-EDIT- STATUS-3	normal – change all fields	 FE shows "The status has been updated" The status is updated in DB and status table view correctly
	TC-PBI7-EDIT- STATUS-4	failed – no status	 BE returns 404 FE shows "An error has occurred, the status does not exist" and on close of message window, returns to previous page