Use Cases of To-do App

1. Overview

This To-do list App will be provide the following use cases for the users to interact with:

1. Create a to-do event
   (1) Create sub-event
2. Edit a to-do event
3. View to-do events
   (1) View according to deadlines
   (2) View according to tags
   (3) View Completed event
4. Tick a completed to-do event
5. Delete an event

2. Descriptions

Actors/Target Audience/User: Students(plan school works), Working adults(plan works/errands)

2.1. Create a to-do event

Actors	User
Pre-conditions	The user is logged in
Basic Flow	User Clicked "Add event" in the control bar and fill in the "event title" to create the event. The user can fill in other optional details like "event deadlines", "Brief description" and "tag".
Alternate Flow	If the user wish to create sub-event for an existing event to clarify the steps to complete a task, the user can select the targeted event in the event list and Clicked "add steps" in the control bar
Restrictions	Only Events can have sub-events, sub-events are not allow to have sub-events.
Post-conditions	Event details added to database

2.2. Edit a to-do event

Actors	User
Pre-conditions	The user is logged in and the targeted event has been created
Basic Flow	User select the targeted event in the event list and Clicked "Edit event" in the control bar and change the "event title", "event deadlines", "Brief description" and "tag".

Alternate Flow	Nil
Post-conditions	Event details updated to database

2.3. View to-do events

Actors	User
Pre-conditions	The user is logged in
Basic Flow	Once the user is logged in, the default display is the event list page by deadline
Alternate Flow 1	If the user wish to view the event by tag, The user can click the "tag" drop-down menu in the control bar and select the desired tag.
Alternate Flow 2	If the user wish to view the completed events, the user can select completed events at the bottom of all events or by clicking "Completed events" in the control bar.
Post-conditions	No change to database. Requesting data from database and render event list page

2.4. Tick a completed to-do event

Actors	User
Pre-conditions	The user is logged in and the targeted event has been created
Basic Flow	The user can check the event that they have completed in the event list page by clicking the check box.
Alternate Flow	The user can checked the sub-events of an event as well. When all the sub-events of an event is checked, the event will automatically be marked as completed.
Post-conditions	The checked event will mark as completed and will be display at the bottom of all events.

2.5. Delete a to-do event

Actors	User
Pre-conditions	The user is logged in and the targeted event has been created
Basic Flow	The user can delete the event prematurely by selecting the event in the event list page and click "delete" in the control bar.
Post-conditions	The corresponding data will be deleted in the database

3. Execution Plan

Deadline	Event
30th Dec.	Learn Ruby on Rails and React, submit mid-assignment
10th Jan.	Build Back-end using Ruby on Rails
17th Jan.	Build Front-end using React
24th Jan.	Testing and modification
25th Jan.	Submit assignment