



Use Case Description

Use Case ID:	01		
Use Case Name:	Manage Todo		
Created By:	Zhong Xing Jie	Last Updated By:	Zhong Xing Jie
Date Created:	8 Feb 2024	Date Last Updated:	15 Feb 2024

Actor:	User
Description:	This use case allows user to manage their To-do list
Preconditions:	User login and successfully authenticated
Postconditions:	
Priority:	
Frequency of Use:	
Flow of Events:	<ol style="list-style-type: none">1. The system presents the user with options to Create, Edit, Delete, or View Todos.2. If the user selects Create Todo, they are guided through the process outlined in the "Create Todo" use case.3. If the user selects Edit Todo, they first choose a Todo from their list to edit, then are guided through the editing process, where they can change any detail of the selected Todo.4. If the user selects Delete Todo, they choose a Todo to delete from their list and confirm deletion in the process described in the "Delete Todo" use case.5. If the user selects View Todo, they are presented with a list of their Todos and can select one to view its detailed information, as described in the "View Todo" use case.
Alternative Flows:	
Exceptions:	If there are no Todos available when the user chooses to Edit or View, the system informs the user and offers to redirect them to the Create Todo option.
Includes:	Create To-do, Edit To-do, Delete To-do, View To-do
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	02		
Use Case Name:	Create Todo		
Created By:	Zhong Xing Jie	Last Updated By:	Zhong Xing Jie
Date Created:	8 Feb 2024	Date Last Updated:	18 Feb 2024

Actor:	User
Description:	This use case allows user to create a To-do and add it into the To-do list
Preconditions:	User selected Create To-do in the View To-do page
Postconditions:	A To-do is created and added into the To-do list
Priority:	
Frequency of Use:	
Flow of Events:	<ol style="list-style-type: none"> 1. The user selects the option to create a new Todo. 2. The system prompts the user for the Todo details: title, task, datetime, duration, destination, indoor/outdoor status. 3. The user inputs the required details and may use the included use case "manual destination input" to input the address of the activity, "manual timing input" to input the activity time.. 4. The system include use case “check for clashes” to identify if there’s any overlap between activities. If there is, system will warn the user and ask user to change datetime.
Alternative Flows:	
Exceptions:	
Includes:	Manual timing input, Manual destination input, Check for clashes
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	03		
Use Case Name:	Edit Todo		
Created By:	Zhong Xing Jie	Last Updated By:	Zhong Xing Jie
Date Created:	8 Feb 2024	Date Last Updated:	18 Feb 2024

Actor:	User
Description:	This use case allows user to edit a To-do and update the To-do list
Preconditions:	User selected Edit To-do in the View To-do page
Postconditions:	The specified To-do is edited and the To-do list is updated accordingly
Priority:	
Frequency of Use:	
Flow of Events:	<ol style="list-style-type: none"> 1. The user selects the option to edit a specified Todo. 2. The system prompts the user for the Todo details: title, task, datetime, duration, destination, indoor/outdoor status. 3. The user update the details and may use the included use case "manual destination input" to input the address of the activity, "manual timing input" to input the activity time. 4. The system include use case "check for clashes" to identify if there's any overlap between activities. If there is, system will warn the user and ask user to change datetime.
Alternative Flows:	
Exceptions:	
Includes:	Manual timing input, Manual destination input, Check for clashes
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	04		
Use Case Name:	View Todo		
Created By:	Zhong Xing Jie	Last Updated By:	Zhong Xing Jie
Date Created:	8 Feb 2024	Date Last Updated:	18 Feb 2024

Actor:	User
Description:	This use case allows user to view the To-do list
Preconditions:	User selected View To-do in the Manage To-do page
Postconditions:	
Priority:	
Frequency of Use:	
Flow of Events:	<ol style="list-style-type: none"> 1. The user selects the option to view Todos list. 2. The system retrieves Todos list from the database and displays them to the user. 3. The user can select a Todo activity from the list to view its detailed information and edit/delete the specific Todo.
Alternative Flows:	
Exceptions:	If there are no Todos to display, the system informs the user that no Todos are available.
Includes:	
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	05		
Use Case Name:	Delete Todo		
Created By:	Zhong Xing Jie	Last Updated By:	Zhong Xing Jie
Date Created:	8 Feb 2024	Date Last Updated:	18 Feb 2024

Actor:	User
Description:	This use case allows user to delete the To-do list
Preconditions:	User selected Delete To-do in the View To-do page
Postconditions:	
Priority:	
Frequency of Use:	
Flow of Events:	<ol style="list-style-type: none"> 1. The user selects the option to delete a Todo. 2. The system confirms the deletion request. 3. Upon confirmation, the system deletes the selected Todo from the database and confirms the deletion to the user.
Alternative Flows:	
Exceptions:	If there are no Todos to delete, the system informs the user that no Todos are available.
Includes:	
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	06		
Use Case Name:	Manual Destination Input		
Created By:	Zhong Xing Jie	Last Updated By:	Zhong Xing Jie
Date Created:	8 Feb 2024	Date Last Updated:	15 Feb 2024

Actor:	User
Description:	This use case allows user to input the location of destination
Preconditions:	User selected to manually input the destination location when creating/editing the To-do
Postconditions:	Location destination information of the creating/editing To-do has been updated
Priority:	
Frequency of Use:	
Flow of Events:	<ol style="list-style-type: none"> 1. When prompted for Todo details, the user selects the option to manually input the destination. 2. The user enters the address of the activity. 3. The system validates the address and saves it as part of the Todo's destination.
Alternative Flows:	
Exceptions:	If the address is invalid, the system alerts the user and requests a valid address.
Includes:	
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	08		
Use Case Name:	Manual Timing Input		
Created By:	Zhong Xing Jie	Last Updated By:	Zhong Xing Jie
Date Created:	8 Feb 2024	Date Last Updated:	15 Feb 2024

Actor:	User
Description:	This use case allows user to input the timing of To-do
Preconditions:	User selected to manually input the timing when creating/editing a To-do
Postconditions:	datetime information of the creating/editing To-do has beening updated
Priority:	
Frequency of Use:	
Flow of Events:	<ol style="list-style-type: none"> 1. When prompted for Todo details, the user selects the option to manually input the activity time. 2. The user inputs the date and time of the activity. 3. The system validates and saves the input as part of the Todo's datetime.
Alternative Flows:	
Exceptions:	
Includes:	
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	09		
Use Case Name:	Check for clashes		
Created By:	Zhong Xing Jie	Last Updated By:	Zhong Xing Jie
Date Created:	8 Feb 2024	Date Last Updated:	15 Feb 2024

Actor:	User
Description:	This use case will check if there is any time overlaps within the Todo list and raise warning information if there is
Preconditions:	User finished inputting all details of a Todo
Postconditions:	Creating/editing a specific Todo finished
Priority:	
Frequency of Use:	
Flow of Events:	<ol style="list-style-type: none"> 1. During Todo creation or editing, the system checks for time overlaps with existing Todos. 2. If an overlap is found, the system alerts the user and provides details of the clash.
Alternative Flows:	The user can choose to adjust the Todo details to resolve the clash or proceed despite the overlap.
Exceptions:	
Includes:	
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	10		
Use Case Name:	Obtain Weather Data		
Created By:	Zhong Xing Jie	Last Updated By:	Zhong Xing Jie
Date Created:	8 Feb 2024	Date Last Updated:	15 Feb 2024

Actor:	Weather API
Description:	This use case allows user to input the timing of To-do
Preconditions:	User login to the CheckIt website
Postconditions:	Weather data retrieved for current user location and all Todo destination
Priority:	
Frequency of Use:	
Flow of Events:	<ol style="list-style-type: none"> 1. The system uses the Weather API to obtain real-time weather data for the user's current location and all Todo destination. 2. The system displays the weather information to the user or uses the information to suggest alternative events or provide alerts.
Alternative Flows:	
Exceptions:	
Includes:	
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	11		
Use Case Name:	Discover Events		
Created By:	Zhong Xing Jie	Last Updated By:	Zhong Xing Jie
Date Created:	8 Feb 2024	Date Last Updated:	15 Feb 2024

Actor:	TicketMaster API
Description:	This use case uses TicketMaster API to present events happened nearby
Preconditions:	User choose to discover events when creating To-do
Postconditions:	A list of events retrieved and present to user
Priority:	
Frequency of Use:	
Flow of Events:	<ol style="list-style-type: none"> 1. The user selects the option to discover events. 2. The system uses the TicketMaster API to present the user with events happening nearby, based on preferences and current location. 3. The user can view more information about an event or add it as a Todo.
Alternative Flows:	
Exceptions:	
Includes:	
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	12		
Use Case Name:	Suggest Alternative Events		
Created By:	Zhong Xing Jie	Last Updated By:	Zhong Xing Jie
Date Created:	8 Feb 2024	Date Last Updated:	15 Feb 2024

Actor:	TicketMaster API
Description:	This use case offers user some alternative events to replace existing outdoor To-dos which might be affected due the bad weather
Preconditions:	User login and authenticated successfully, one or more outdoor Todo is impacted by weather condition
Postconditions:	Possible To-do update if user accept system suggestion
Priority:	
Frequency of Use:	
Flow of Events:	<ol style="list-style-type: none"> 1. If weather conditions impact an outdoor Todo, the system suggests alternative indoor events or sheltered transportation modes, utilizing Weather and Event Discovery APIs. 2. The user can review the suggested alternatives.
Alternative Flows:	
Exceptions:	
Includes:	Discover Events
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	13
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Use Case Name:	Plan Route		
Created By:	Zhong Xing Jie	Last Updated By:	Zhong Xing Jie
Date Created:	8 Feb 2024	Date Last Updated:	15 Feb 2024

Actor:	User
Description:	This use case allows user to plan route between the location of the To-dos based on the To-do list he/she has
Preconditions:	User login and authenticated successfully
Postconditions:	Routes between destinations selected by user will be stored in database
Priority:	
Frequency of Use:	
Flow of Events:	<ol style="list-style-type: none"> 1. The user selects the option to plan a route. 2. The system displays a list of the user's created Todos, and the user selects the Todo for which they want to plan a route. 3. Upon selection, the system uses the included "Suggest Route" use case to plan the route. 4. The system retrieves the destination of the selected Todo and the specified start location. 5. The system uses "Suggest route" to suggest an optimal path from the start location to the Todo's destination 6. The system displays the suggested route(s) to the user, including details such as estimated travel time and possible modes of transportation. 7. The user reviews the suggested routes and selects the one that best fits their needs.
Alternative Flows:	
Exceptions:	
Includes:	Suggest routes
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	14
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Use Case Name:	Suggest Route		
Created By:	Zhong Xing Jie	Last Updated By:	Zhong Xing Jie
Date Created:	8 Feb 2024	Date Last Updated:	15 Feb 2024

Actor:	OneMap API
Description:	This use case retrieve a few best routes suggestion from OneMap API
Preconditions:	User request for route suggestion in Plan Route page
Postconditions:	Several routes are suggested and shown on the website
Priority:	
Frequency of Use:	
Flow of Events:	<ol style="list-style-type: none"> 1. Based on a selected Todo's destination or during the creation of a Todo, the user requests route suggestions. 2. The system uses the OneMap API to suggest an optimal path from the user's current location to the destination, considering traffic and public transportation options. 3. The system displays the suggested routes and show the estimated time taken of each route to the user.
Alternative Flows:	
Exceptions:	
Includes:	
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	15		
Use Case Name:	FAQ		
Created By:	Zhong Xing Jie	Last Updated By:	Zhong Xing Jie
Date Created:	8 Feb 2024	Date Last Updated:	15 Feb 2024

Actor:	User
Description:	This use case displays user some FAQs to clear possible doubts
Preconditions:	User login and authenticated successfully
Postconditions:	
Priority:	
Frequency of Use:	
Flow of Events:	<ol style="list-style-type: none"> 1. User select the FAQ option. 2. System displays FAQs in another webpage. 3. If the FAQs are not helpful to address user's problem, user can choose to send feedback.
Alternative Flows:	
Exceptions:	
Includes:	
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	16		
Use Case Name:	Feedback		
Created By:	Zhong Xing Jie	Last Updated By:	Zhong Xing Jie
Date Created:	8 Feb 2024	Date Last Updated:	18 Feb 2024

Actor:	User
Description:	This use case allows user to send feedback to the system manager
Preconditions:	User login and authenticated successfully
Postconditions:	User send feedback successfully
Priority:	
Frequency of Use:	
Flow of Events:	<ol style="list-style-type: none"> 1. User select to send feedback to system manager 2. A small window will pop up and ask user to fill in the information to send feedback 3. User input his description of the issue in detail 4. User can choose to upload a screenshot about the issue (pdf, img, jpg format etc, <30MB) 5. User input his email address for manager to email about the update in future
Alternative Flows:	User is allowed to give up sending feedback by closing the small pop-up window
Exceptions:	
Includes:	
Special Requirements:	
Assumptions:	
Notes and Issues:	