

# Capstone-Project-3900-t11b-3-5

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## Pre-Installation Checklist

Requirement	Description
Windows	Developed and Tested on Windows 10 and 11
MacOS	Developed and Tested on MacOS Monterey
Linux	Tested on Ubuntu
Python	3.8.10, (versions 3.9.X+ is recommended)
Git	<a href="#">How to install Git</a>
Pip3	<a href="#">How to install Pip</a>
Python3-venv	<a href="#">How to install python-venv</a>

**Note:** We have not tested on Python 3.10+

If you do not have python 3.9.X, I recommend following these

**For Linux systems:**

[How To Install Python 3.9](#)

**For Windows or Mac:**

[Download Python 3.9](#)

**Note:** Use the respective download links for your operating system.

## Setup

Firstly, clone the repository and change to project directory:

```
git clone git@github.com:unsw-cse-comp3900-9900-22T2/capstone-project-3900-t11b-3-5.git
cd capstone-project-3900-t11b-3-5/task_planner_app/
```

Create a virtual environment to install project dependencies and activate it:

**Note:** Make sure you are in the directory "capstone-project-3900-t11b-3-5/task\_planner\_app/"

```
python3 -m venv .env
source .env/bin/activate
```

You should now see a `(.env)` in front of your console path e.g.:

```
(.env) ~/capstone-project-3900-t11b-3-5/task_planner_app$
```

Install the project dependencies:

```
(.env) $ pip3 install -r requirements/requirements.txt
```

Once `pip3` has finished installing, setup the app database and run the server:

```
(.env) $ python3 manage.py migrate
(.env) $ python3 manage.py loaddata fixtures/tags.json
(.env) $ python3 manage.py runserver
```

You should be able to access the app now on:

- <http://127.0.0.1:8000/>

## Virtual Environment Errors and How To Fix

If you encounter the following error with "ensurepip"

```
The virtual environment was not created successfully because ensurepip is not
available.  On Debian/Ubuntu systems, you need to install the python3-venv
package using the following command.
```

```
apt install python3.9-venv
```

You may need to use sudo with that command. After installing the python3-venv package, recreate your virtual environment.

```
Failing command: ['/home/nguyen/capstone-project-3900-t11b-3-5/task_planner_app/.env/bin/python3', '-Im', 'ensurepip', '--upgrade', '--default-pip']
```

Then run the following:

```
sudo apt install python3.9-venv
```

If you encounter "No such file or directory:" when trying to run "python3 -m venv .env "

1. Kill the current console instance.
2. cd back to the project directory.

```
cd capstone-project-3900-t11b-3-5/task_planner_app/
```

3. Try to create the virtual environment and activate it again.

```
python3 -m venv .env
source .env/bin/activate
```

## Using the App (Workflow and Use Cases)

### Register and Login

Firstly, create an account to access the app:

- <http://127.0.0.1:8000/accounts/register/>
- Here you are required to enter in an email, username, first name, last name and password.
- Your date of birth is completely optional and you may update this once logged into the system.
- Upon successful registration you will be logged into the app.

You may also access the app via the login page:

- <http://127.0.0.1:8000/accounts/login/>
- Enter your email and password to access the app.

### **Register and Sign Up Views**

## Sign up

Email\*

Nguyenh3029@gmail.com

Username\*

z5257125

First name\*

Nguyen

Last name\*

Hoang

Date of birth

dd/mm/yyyy



Password\*

\*\*\*\*\*

- Your password can't be too similar to your other personal information.
- Your password must contain at least 8 characters.
- Your password can't be a commonly used password.
- Your password can't be entirely numeric.

Password confirmation\*

\*\*\*\*\*

Enter the same password as before, for verification.

Register

Have an account? [Log In](#)

## Login

Email\*

nguyenh3029@gmail.com

Password\*

\*\*\*\*\*

[Forgot your password?](#)

Login

Don't have an account? Register [here](#)

## Forgot your password?

In the event that you have forgotten your password, it can be recovered through our password recovery:

- [http://127.0.0.1:8000/accounts/reset\\_password/](http://127.0.0.1:8000/accounts/reset_password/)
- Enter your email into the form and submit a password reset request.
- You will then receive an email from our team within a couple of minutes.

**Note:** Please check your spam and junk email folders for the password recovery link.

- You may now reset the password via the link generated in the email.

## Forgot Password View

# Forgot your password?

We'll send you instructions on how to reset your password

Email\*

nguyenh3029@gmail.com

Send me recovery link

## Your Profile

- <http://127.0.0.1:8000/accounts/profile/>
- In your profile you may view and manage the details that you have provided about yourself.
- Here you will additionally see your assigned Proficiencies (skills), Workload, Capacity, and Profile Picture which has been generated by the system.

# Profile

[Edit Profile](#)

Username: z5258462

First name: Joshua

Last name: Kitara

Date of Birth : May 15, 2000

Capacity : 15

Workload : 3

✉ Email: joshuak@gmail.com

Friends (0)

## Editing your profile

- [http://127.0.0.1:8000/accounts/profile\\_edit/](http://127.0.0.1:8000/accounts/profile_edit/)

You may edit details about yourself including:

- Email
- Username
- First Name
- Last Name
- Capacity (amount of workload you are willing to take)
- Proficiencies
- Profile Picture

First name\*

Joshua

Last name\*

Kitara

Username\*

z5258462

Capacity\*

15

Email\*

joshuak@gmail.com

Date of birth

15/05/2000

Profile image

Currently: [default\\_image/default.png](#) ☐ Clear

Change:

Choose file

No file chosen

Select Proficiencies

Save changes

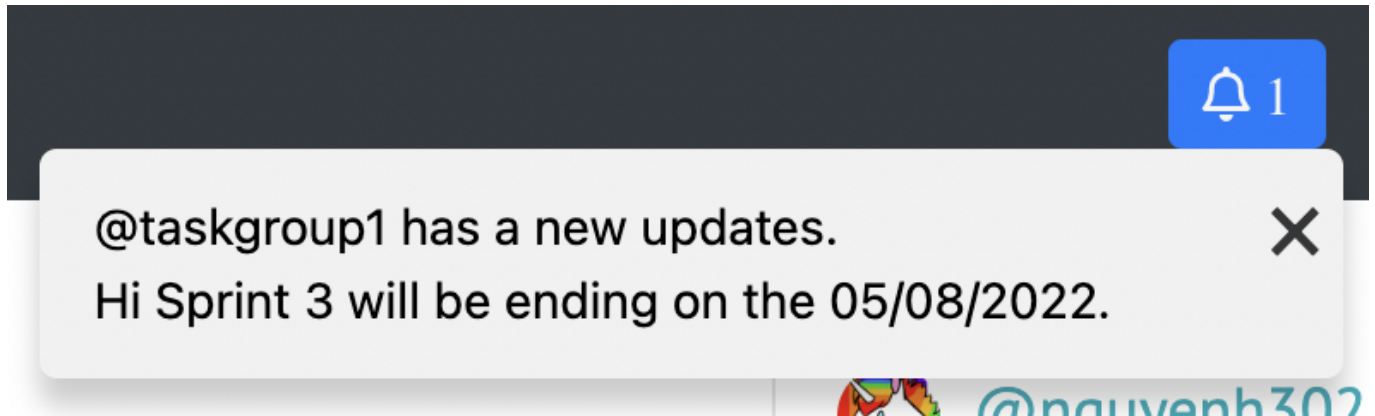
[Back to profile](#)



## Notifications

Notifications have been created for users to easily access and respond to relevant notifications from both Users and TaskGroups. You can access and manage your notifications via the bell icon on the top right of the navbar. Some core functionalities in our app that leverages this system includes:

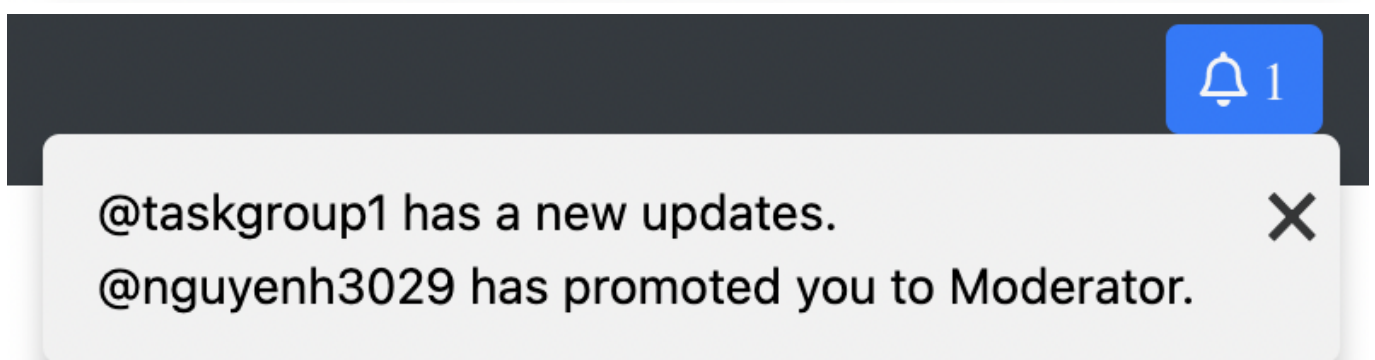
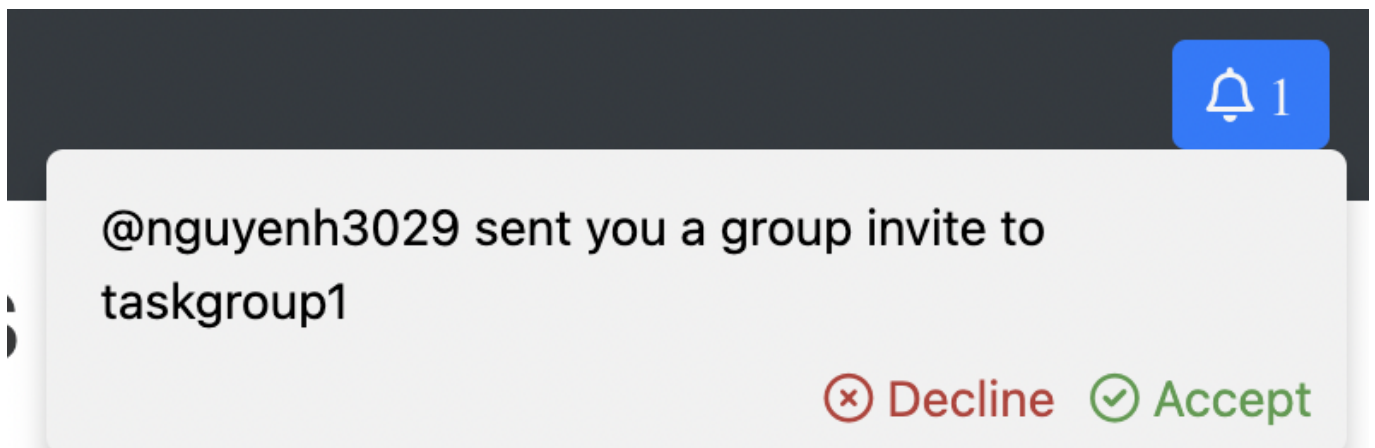
### 1. Task Group Notification Broadcasts'

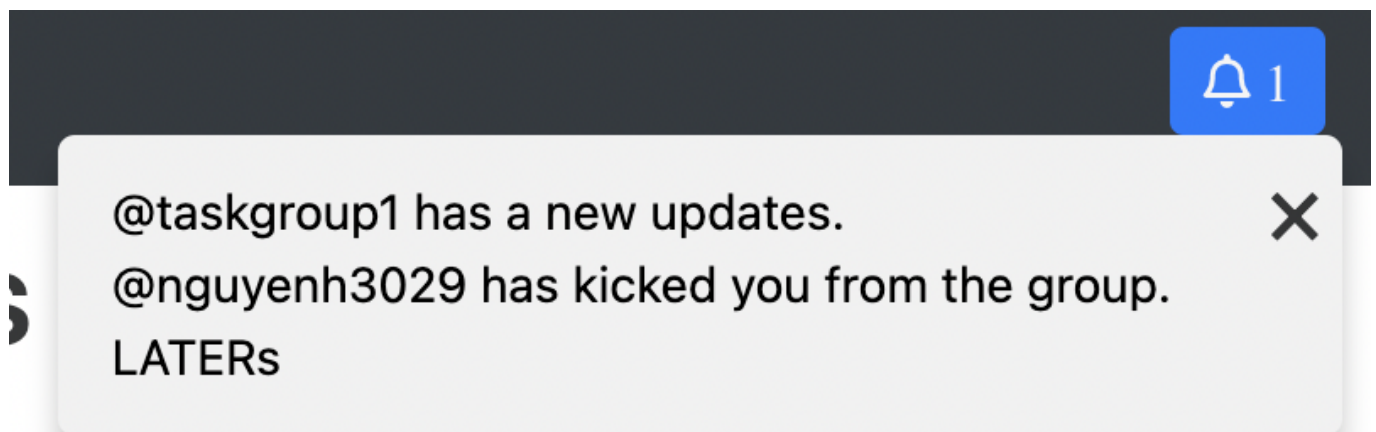
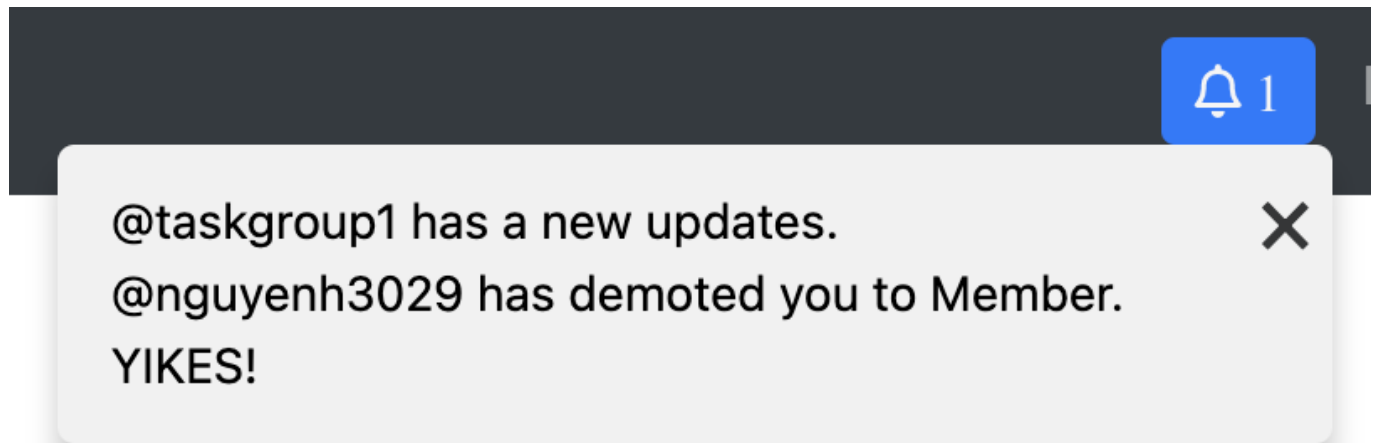


### 2. Task Group Membership Notifications

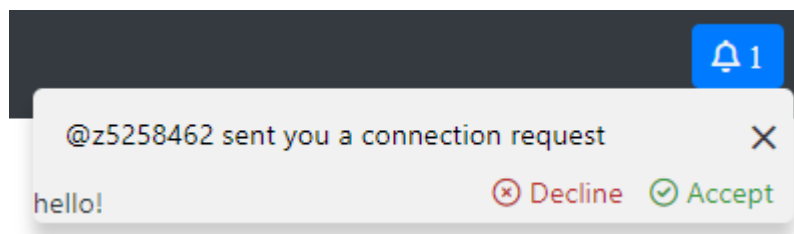
- Invitations of Members to Task Groups
- Promotion of Members
- Demotion of Members
- Kicking of Members

Listed below are some notifications that a user may receive from their Task Group:





#### 1. User connections invitations



## The Dashboard

The Dashboard has been designed with purpose to maximise your productivity, only showing relevant information such as your assigned Task(s) and TaskGroup(s). You will find core features and functionalities required for tasking including:

1. Task List View (Including filters and sorting.)
2. Integrated Task Support System
3. Dependent Workflows (Task Dependencies and Links.)
4. Task Reporting Generation
5. Task Group List View (Including filters and sorting.)
6. Task Group Creation, Deletion and Access

### Viewing Tasks in the Dashboard

- <http://127.0.0.1:8000/dashboard/>






**Note:** See [How to Create a Task](#) to create a task.

Your assigned tasks can be easily viewed and accessed via the "My Tasks" tab on the Dashboard view of our app. Here you will be able to see core information about your assigned tasks including:

- Name
  - Tasks that have links will show a chain icon in front of the task name.
- Task Group
- Task List (The list in which the task is grouped under in a group.)
- Due Date
- Priority
- Status

## Your Tasks

Filters

#	Name	Task Group	Task List	Due Date	Priority	Status	Action
1	Create CSS file for container class	Frontend Development	CSS	Aug. 18, 2022, 2:13 a.m.	Low	To Do	
2	 Implement form frontend	Frontend Development	Forms	Aug. 25, 2022, 2:12 a.m.	Medium	To Do	
3	 Form for task creation	Frontend Development	Forms	Aug. 28, 2022, 2:16 a.m.	Lowest	To Do	

Create Task Reports

**Note:** You may also edit your tasks details by clicking on the pen icon in the action column of the table.

To see a more detailed view of your task click on the task in the table. This will open a pop up window which displays more details about your task including:

- Task Estimation Points
- Task Description
- Links Related Tasks:
  - Parent Tasks
  - Child Tasks
- Task Comments
- Task Help Results

#### Implement form frontend



**Task Points:** 2

**Description:**

Create a form to register an account.

**Child Tasks:**

Frontend Development - Forms - Form for task creation



**Comments:**

@ 05/08/2022

Try to use django-crispy-forms.

**Show Related Sources**

[Django Tutorial Part 9: Working with forms - MDN Web Docs](#)

[django-frontend-forms - PyPI](#)

[Fundamentals of Front-End Django - mkdev](#)

[Build and Submit HTML Forms With Django – Part 4](#)

[Django form input not showing on frontend/html - Stack Overflow](#)

[HTML & Forms - Django REST framework](#)

[Making django front end forms working - YouTube](#)

[My First Web Application \(Python, Django, HTML\) - YouTube](#)

[Build a modern web app using Django and Javascript](#)

[Render HTML Forms \(GET & POST\) in Django - GeeksforGeeks](#)

Close

## Viewing Groups in the Dashboard

- <http://127.0.0.1:8000/groups/>

You can easily access the Task Groups you are a member in via the "My Groups" tab on the Dashboard view of the app. Here you can view core information about the groups including:

- Group Name
- Group Description
- Date Joined

# Manage Task Groups

Filters

Name contains

▼ Filter

#	Name	Description	Date Joined	Actions
1	Frontend Development	Developing the frontend of the project	04 August, 2022	<a href="#">View</a> <a href="#">Delete Group</a>
2	Backend Development	Developing the backend of the project	04 August, 2022	<a href="#">View</a> <a href="#">Delete Group</a>

**Note:** You may also view more details of the group, and to delete or leave a group depending on your permissions, through the action column of the table.

## Creating and Managing Tasks

### How to Create a Task

1. Create a Task Group by navigating to the Dashboard and clicking "Create Group".
  - A modal form will then be presented, where you can enter in a Name(required) and Description for your Task Group.

## Create Task Group



Name\*

Frontend Development

Description

Developing the frontend of the project

Close

Create +

2. Create a Task List for your Tasks:

- Enter in details for your Task List.

[Groups](#) / Task Lists

## Task Lists

Name contains

Filter

Forms 2

CSS 3

Name\*

Filters

Description

Create relevant filters for tasks:

- Name
- ID
- Assignee
- Deadline

Deadline

27/08/2022 02:28 AM



Create List

3. Create a Task, providing the following information:

- Name
- Description
- Deadline
- Status
- Priority
- Assignee
- Task Estimation Points
- Related Tasks
- Related Tags

**Note:** When assigning a user to a Task you must also supply an Estimation. This is to prevent users from being overloaded with Tasks as we will protect users from going over their desired capacity.

### How to Edit a Task

Editing a task can be completed by either clicking on the edit button found in the Dashboard - My Tasks page, or by clicking on the existing task in the Tasks page.

On this Edit page, users can edit any field in the task model, whilst also having access to the Assignee Recommendation and Comment sections.

## Edit Form for task creation

<p>Name*</p> <input type="text" value="Form for task creation"/>	<p>Status*</p> <input type="text" value="To do"/>
<p>Description</p> <div> <div>Create a form that creates a task.</div> </div>	<p>Priority*</p> <input type="text" value="Lowest"/>
<p>Deadline</p> <input type="text" value="dd/mm/yyyy --:-- --"/>	<p>Link Parent Tasks</p> <div> <input type="checkbox"/> Create CSS file for container class           <input checked="" type="checkbox"/> Implement form frontend         </div>
<p>Assignee</p> <input type="text" value="z5258462"/>	<p>Select Proficiencies (The accuracy of help results depend on these tags)</p> <div> <input type="checkbox"/> Administration           <input type="checkbox"/> Back End           <input type="checkbox"/> Building           <input type="checkbox"/> C           <input type="checkbox"/> C#         </div>
<p>Recommended User(s): z5258462 Johnny12</p>	<input type="button" value="Save"/>
<p>Estimation</p> <input type="text" value="1"/>	<p>Content*</p> <div> <div>Add a comment here.</div> </div> <input type="button" value="Comment"/>

### Task Relations

Task relations are created when a user has added a Parent Task to a Task. To allow for easier access of these relations we have designed the task dashboard to indicate if tasks have relations. You may also access the details of the related task via the link in the detail view of the task.

**Note:** See [Viewing Tasks in the Dashboard](#) for an example.

### How to use the Task Help System

The Task Help System relies on appropriate naming of the task, as well as appropriate selection of proficiencies required for a task. To successfully use the Help System:

1. Provide an appropriate name for the task detailing what needs to be done.
2. Select from the proficiencies list, related topics that are required to complete the task.
3. On the Detail View of the task in the Dashboard select "Show Related Sources" for a list of related resources on completing your task.

**Note:** See [Viewing Tasks in the Dashboard](#) for an example of search results.

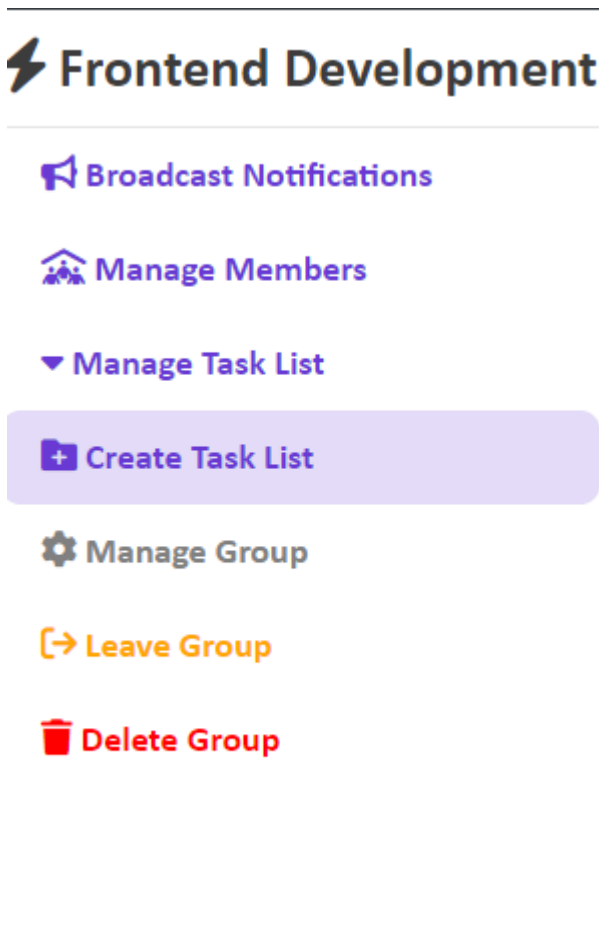


## Managing Task Groups

As an owner of a Task Group, you have the ability to manage the roles of other members in the group as well as invite members that are in the web-app to their Task Group.

After accessing a particular group, there will be a sidebar which allows users with certain permissions to:

1. Broadcast Notifications (Moderators only)
2. Manage Members (Moderators only)
3. Manage Task List (All Members)
  - View a list of Task Lists in the Task Group.
4. Create Task List (All Members)
5. Manage Group (Moderators only)
  - Can edit Task Group fields and select which users will remain as members.
6. Leave Group (All Members)
7. Delete Group (Owner only)



### Managing your members

Task Groups will generally have 3 tiers of permissions Owner, Moderator and Members. You can view members that are part of your Task Group using the right sidebar. A Member's profile may also be accessed via the sidebar, here you will be able to view their details including Capacity, Workload and assigned Tasks. Additionally, a dedicated view has been created for Task Group Owners and Moderators to manage members within their authority.

In the Manage Members view, users with Moderator permissions and above have the ability to:

- Invite Users within the app to the group
  - You may optionally send a message in your invite to the user.
- Promote Members
- Demote Members
- Kick Members



Logout

Members  
List



 Owner



@nguyenh3029



Moderators




Members






@z5257125

Action

## Manage Members

Add Member 

#	First Name	Last Name	Handle	Date Joined	Role	Action
1 	Joshua	Kitara	@z5258462	Aug. 5, 2022, 2:04 a.m.	Moderator	
2	John	Tran	@Johnny12	Aug. 5, 2022, 2:08 a.m.	Member	<div><div> Promote</div><div> Kick</div></div>

## Send Member Invite



User\*

Johnny12



Message

Inviting Johnny12 to the task group.

Close

Send

Notifications will be sent to users where their membership has been updated or when they have been kicked from a Task Group.

### **Sending Notifications to your Task Group**

Owners and Moderators within a Task Group have the ability to also broadcast notifications to members of different levels of membership authority(Moderator, Member). This is to allow for Task Group wide communications where it is generally absent within other Tasking applications.

## Create Notification

Users\*

Moderators



Message\*

This is a notification to the moderators.

Send

### **Deleting your Task Group**

To delete your Task Group simply select "Delete Group" inside the main page of the group, or on the list view of your Task Groups via the Dashboard. You will then be presented with a confirmation page to finally delete your Task Group.

**Note:** All associated data belonging to the Task Group will be deleted including Task Lists, Notifications and Tasks.

# Delete Task Group

Are you sure you want to delete the task group "**taskgroup1**"?

This will delete all of the lists and tasks in the group.

Delete

Go back

## Adding and Managing Friends

### Sending Friend Requests

Users can access the profile of other users. This will provide the same [profile view](#) illustrated previously, but however, will also include the ability to send a friend request. If a request is already pending, the button will be replaced to say 'Cancel Friend Request'.

# Profile



Username: z5257125

First name: Jame

Last name: Nguyen

Date of Birth : None

Capacity : 10

Workload : 2

✉ Email: xploiter12@gmail.com

Assigned Tasks:  
2 - 34124 - No Deadline

Send Friend Request

Friends (0)

# Profile



Username: z5257125

First name: Jame

Last name: Nguyen

Date of Birth : None

Capacity : 10

Workload : 2

✉ Email: xploiter12@gmail.com

Assigned Tasks:  
2 - 34124 - No Deadline

Cancel Friend Request

Friends (0)

The receiving user will have the ability to accept or decline the friend request on both the sending user's profile or via their notifications.

1

@z5258462 sent you a connection request

hello!

Decline

Accept

Profile



Username: nguyenh3029

First name: nguyen

Last name: Hoang

Date of Birth : None

Capacity : 10

Workload : 4

✉ Email: nguyenh3029@gmail.com

Assigned Tasks:  
1 - task1 - No Deadline

Accept Friend Request 

✓

✕

Friends (0)

Viewing Friends and User Friends

You may view your friends list via accessing your profile the pressing "Friends". Once a friendship has been established, you are given permission to view which users are friends with the profile you are viewing.



**Friends**

[z5257125](#)