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CVWO Assignment Final Write-up

Accomplishments

As someone who only had very minimal experience in web development, this assignment was really challenging (especially so because I missed the initial release of the assignment and only had a month to complete this whole project, my bad!). Everything seemed so daunting, and there were many times when I came close to giving up. Nevertheless, this journey was truly enjoyable and rewarding.

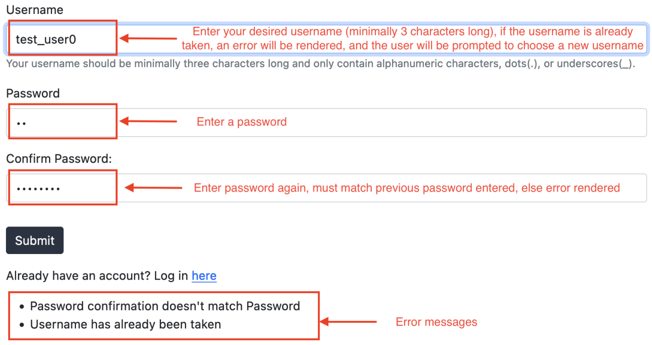
In the end, I am pretty happy that I managed to implement most functionalities that I initially planned for: user authentication, basic CRUD operations on tasks, subjects (used NUSMODS API), and events, searching functionality for tasks, tagging system for overdue, important, and flagged tasks, and a progress bar, albeit very simple.

However, there are definitely aspects of the project that I would do differently if I were to reattempt the assignment. Most importantly, I would spend much more time planning out my application. I realised my code got really messy and I could have extracted many of my components in order to keep them cleaner and more in line with the philosophy of "DRY" of Rails. My Javascript code is also quite chunky, and lacked comments as I was rushing for time, which I realised made things worse as I got easily confused. I definitely could have made my code more elegant. There were also other functionalities that I did not manage getting around to doing due to a lack of time (subtasks, tracking of activities- completion date etc).

User Manual (https://didtask.herokuapp.com)

1. Getting started (Sign up/ Login)

a. New User: Creating a New Account (Sign up)



Username

test_user0

Enter your desired username (minimally 3 characters long), if the username is already taken, an error will be rendered, and the user will be prompted to choose a new username

Your username should be minimally three characters long and only contain alphanumeric characters, dots(.), or underscores(_).

Password

••

Enter a password

Confirm Password:

••••••••

Enter password again, must match previous password entered, else error rendered

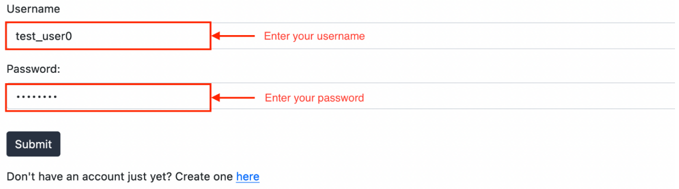
Already have an account? Log in here

- Password confirmation doesn't match Password
- Username has already been taken

Error messages

Enter a username, password, and password confirmation.

b. Existing User: Logging into User's Account (Login)



Username

test_user0

Enter your username

Password:

••••••••

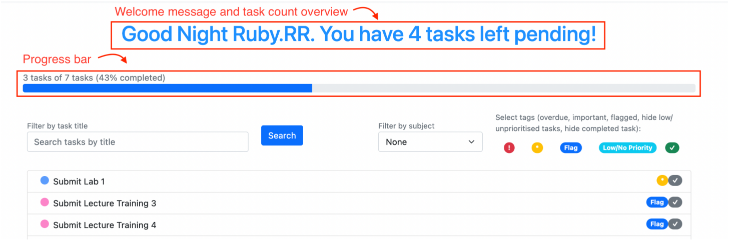
Enter your password

Don't have an account just yet? Create one here

Enter your username and password.

2. Navigating your dashboard (only for logged in users)

Upon opening the dashboard, users are greeted by a welcome message, and can see the number of tasks left in their task list in the progress bar.



Welcome message and task count overview

Good Night Ruby.RR. You have 4 tasks left pending!

Progress bar

3 tasks of 7 tasks (43% completed)

Filter by task title: Search tasks by title

Filter by subject: None

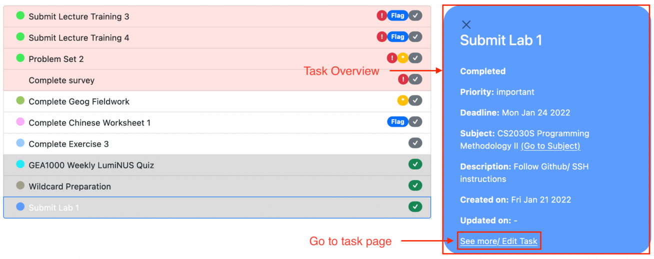
Select tags (overdue, important, flagged, hide low/ unprioritised tasks, hide completed task):

- Submit Lab 1
- Submit Lecture Training 3
- Submit Lecture Training 4

a. Tasks

Task Overview

Users can see a quick overview of their tasks, colour coded by subject, with tags (important/ filtered) at the side. Clicking on the individual task, the user can get more details on the task or go to the task page. Click on the greyed/ green check to change completion of the task.



- Submit Lecture Training 3
- Submit Lecture Training 4
- Problem Set 2
- Complete survey
- Complete Geog Fieldwork
- Complete Chinese Worksheet 1
- Complete Exercise 3
- GEA1000 Weekly LumiNUS Quiz
- Wildcard Preparation
- Submit Lab 1

Task Overview

Submit Lab 1

Completed

Priority: important

Deadline: Mon Jan 24 2022

Subject: CS2030S Programming Methodology II (Go to Subject)

Description: Follow Github/ SSH instructions

Created on: Fri Jan 21 2022

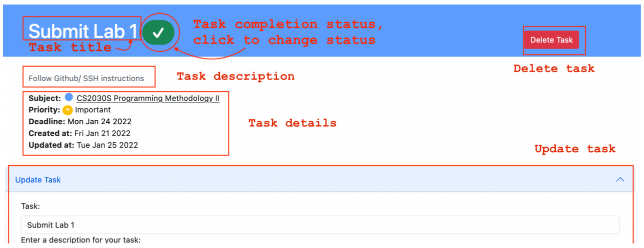
Updated on: -

Go to task page

See more/ Edit Task

Task page

Under the task page, users can delete and update their task.



Submit Lab 1

Task title

Task completion status, click to change status

Delete Task

Delete task

Follow Github/ SSH instructions

Task description

Subject: CS2030S Programming Methodology II
Priority: Important
Deadline: Mon Jan 24 2022
Created at: Fri Jan 21 2022
Updated at: Tue Jan 25 2022

Task details

Update task

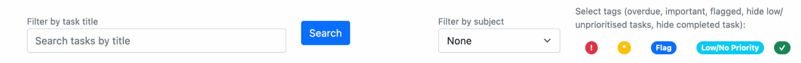
Update Task

Task: Submit Lab 1

Enter a description for your task:

Searching through tasks

Using the search bar on the dashboard, users can search through tasks by title, subject or tag.



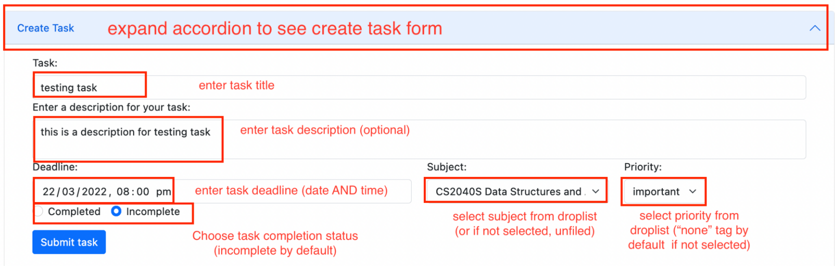
Filter by task title: Search tasks by title

Filter by subject: None

Select tags (overdue, important, flagged, hide low/ unprioritised tasks, hide completed task):

Create task

Users can create their tasks on the dashboard as shown below.



Create Task

expand accordion to see create task form

Task: testing task

enter task title

Enter a description for your task: this is a description for testing task

enter task description (optional)

Deadline: 22/03/2022, 08:00 pm

enter task deadline (date AND time)

○ Completed ● Incomplete

Choose task completion status (incomplete by default)

Subject: CS2040S Data Structures and

select subject from droplist (or if not selected, unfiled)

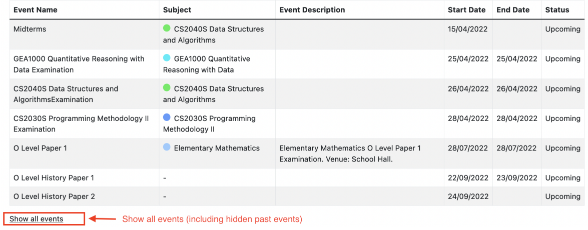
Priority: important

select priority from droplist ("none" tag by default if not selected)

b. Events

Event overview

On the dashboard, users can view their ongoing/upcoming events, clicking on each row will bring the user to the corresponding event page. Clicking the link below the table will show hidden past events.

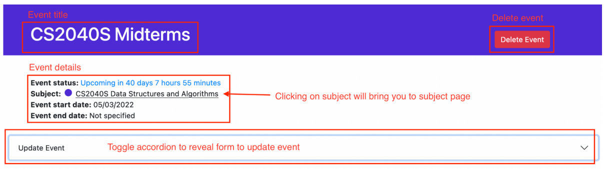


Event Name	Subject	Event Description	Start Date	End Date	Status
Midterms	● CS2040S Data Structures and Algorithms		15/04/2022		Upcoming
GEA1000 Quantitative Reasoning with Data Examination	● GEA1000 Quantitative Reasoning with Data		25/04/2022	25/04/2022	Upcoming
CS2040S Data Structures and AlgorithmsExamination	● CS2040S Data Structures and Algorithms		26/04/2022	26/04/2022	Upcoming
CS2030S Programming Methodology II Examination	● CS2030S Programming Methodology II		28/04/2022	28/04/2022	Upcoming
O Level Paper 1	● Elementary Mathematics	Elementary Mathematics O Level Paper 1 Examination. Venue: School Hall.	28/07/2022	28/07/2022	Upcoming
O Level History Paper 1	-		22/09/2022	23/09/2022	Upcoming
O Level History Paper 2	-		24/09/2022		Upcoming

Show all events ← Show all events (including hidden past events)

Event page

Users can delete and update their event in the event page.



Event title

CS2040S Midterms

Delete event

Delete Event

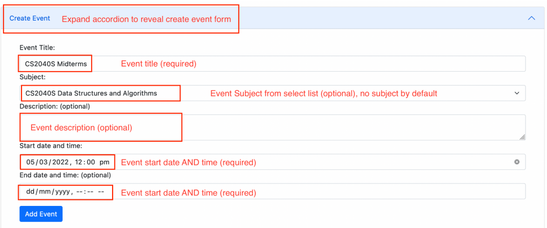
Event details

Event status: Upcoming in 40 days 7 hours 55 minutes
Subject: ● CS2040S Data Structures and Algorithms ← Clicking on subject will bring you to subject page
Event start date: 05/03/2022
Event end date: Not specified

Update Event Toggle accordion to reveal form to update event

Create new event

Users can create new events on their dashboards.



Create Event Expand accordion to reveal create event form

Event Title:
CS2040S Midterms Event title (required)
Subject:
CS2040S Data Structures and Algorithms Event Subject from select list (optional), no subject by default
Description: (optional)
Event description (optional)
Start date and time:
05/03/2022, 12:00 pm Event start date AND time (required)
End date and time: (optional)
dd/mm/yyyy, --:-- -- Event start date AND time (required)

Add Event

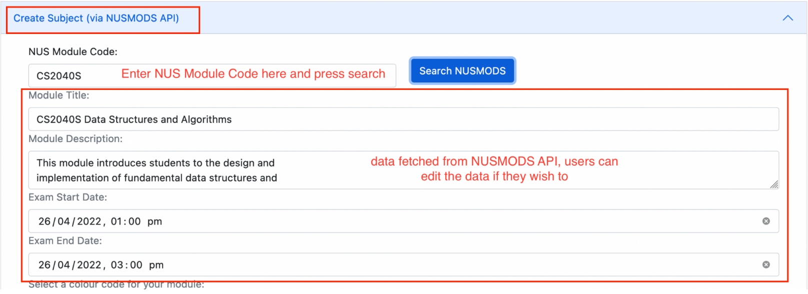
c. Subjects

Subject Overview

Clicking on each subject title reveals a quick overview of the subject, users can access the subject page from this overview where they can delete and update their subject.

Create Subject (Bottom of dashboard)

Users can create subjects two ways, one, manually, or two, they can submit a valid NUS module code (under Create Subject via NUSMODS API), application will fetch module details like title, description and finals date. This module has to be a module offered in the current semester and academic year the user is using this application in.



Create Subject (via NUSMODS API)

NUS Module Code:
CS2040S Enter NUS Module Code here and press search
Search NUSMODS
Module Title:
CS2040S Data Structures and Algorithms
Module Description:
This module introduces students to the design and implementation of fundamental data structures and
data fetched from NUSMODS API, users can edit the data if they wish to
Exam Start Date:
26/04/2022, 01:00 pm
Exam End Date:
26/04/2022, 03:00 pm
Select a colour code for your module: