

[CS304] Tutorial 2 - GitHub Project Management & Teedy Setup

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References

In this lab session, we will learn how to use [GitHub project](#) for project management, and set up Teedy.

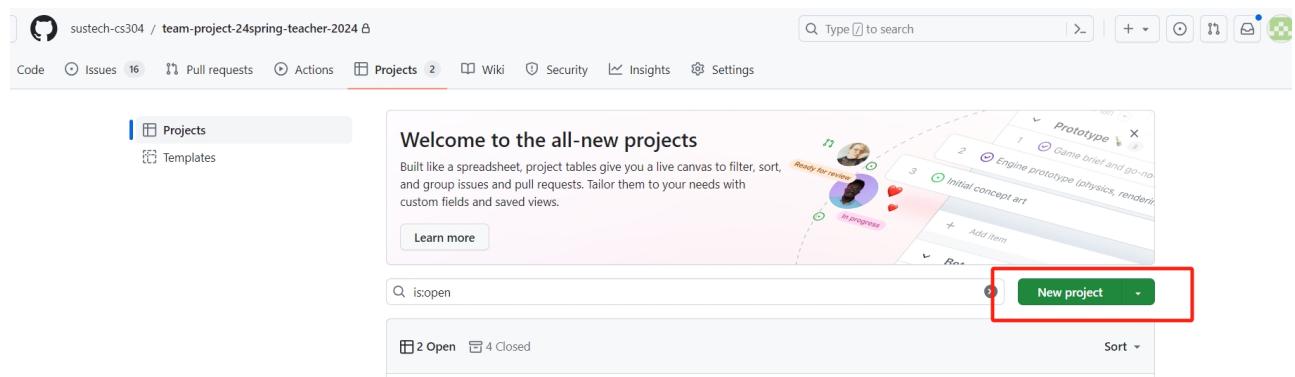
Part 1: GitHub Project Management

GitHub provides a flexible way to track and manage projects.

GitHub Projects guide:<https://docs.github.com/en/issues/planning-and-tracking-with-projects>

1.1 Create a Repository Project

1. Navigate to your GitHub repository and click on the **Projects** tab.



The screenshot shows the GitHub repository interface for 'sustech-cs304 / team-project-24spring-teacher-2024'. The 'Projects' tab is selected. A prominent callout highlights the 'New project' button at the bottom right of the main content area, which contains a 'Welcome to the all-new projects' message and a visual representation of a project board.

2. Select **New project**.

3. Choose one of the following options:

The screenshot shows the GitHub 'Create project' interface. On the left, there's a sidebar with 'Project templates' sections: 'All templates' (selected), 'Featured template' (highlighted with a red box), 'From your organization', 'Start from scratch', 'Table', 'Board' (marked as 'empty'), and 'Roadmap'. In the center, there are cards for different project types: 'Team planning' (GitHub), 'Feature release' (GitHub), 'Kanban' (GitHub), and 'Bug tracker' (GitHub). Each card has a brief description and a preview of the board layout.

- **Use a Template:** Select a pre-built template such as Kanban.

This screenshot shows the 'Kanban' template creation process. It includes a 'Project name' input field containing '@.ufl.edu.cs304|project'. Below it is a preview of the Kanban board with four columns: 'Backlog', 'Ready', 'In progress', and 'In review'. Each column contains several items with status indicators (green circle for Backlog, blue circle for Ready, yellow circle for In progress, purple circle for In review) and brief descriptions. A large green 'Create project' button is at the bottom right.

Enter a project name (e.g., "CS304") and click **Create project**.

Backlog	Ready	In progress	In review	Done
0 / 5 Estimate: 0 This item hasn't been started	0 / 0 Estimate: 0 This is ready to be picked up	0 / 3 Estimate: 0 This is actively being worked on	0 / 5 Estimate: 0 This item is in review	0 / 0 Estimate: 0 This has been completed

- **Empty Project:** Start from scratch by selecting **Table**, **Board**, or **Roadmap**.

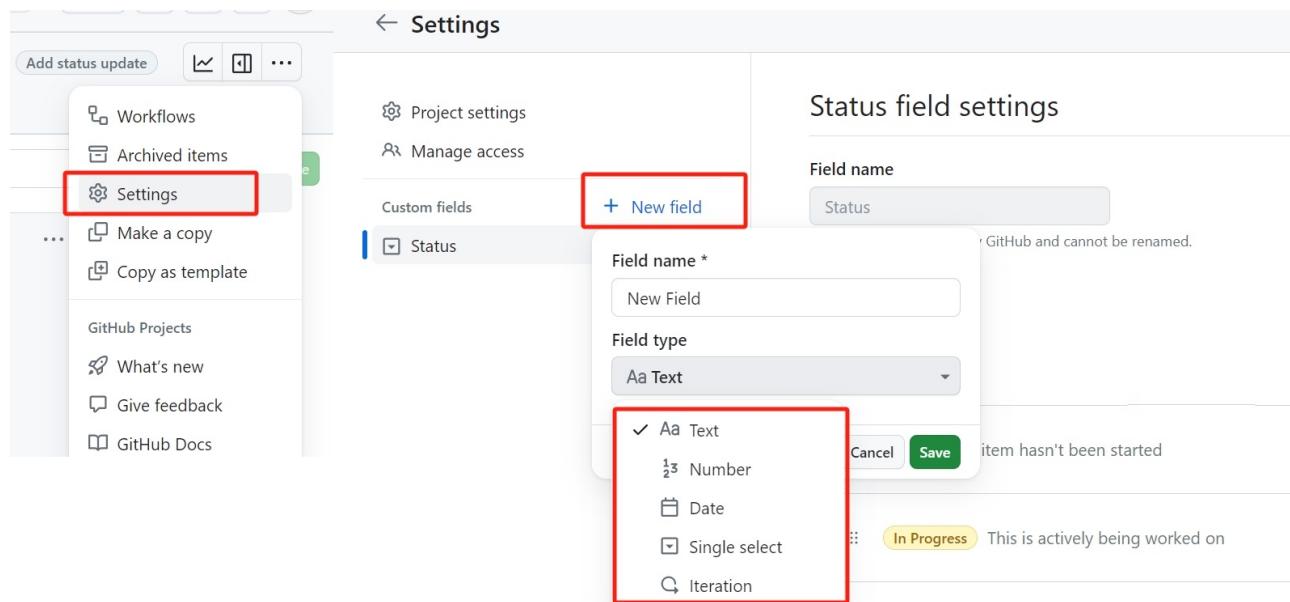
Title	Assignee	Status
1 Updates and bug fixes to sprites #607	cmvalentino	Review
2 Updates and bug fixes to engine from Beta #623	karlaasason	Pending
3 Updates to collision logic #814	ohoververzen	Done
4 Create user account and subscription #820	zjelipy	Building
5 Update Projects.html #834	markand	Building
6 Save score across levels #860	Mutamorphic	Pending
7 Explore a tag #1086		Pending
8 If the beam leaves the window reset it #1095	semo-natalie	Review
9 Updates to alien, beam, bomb and canon sprites #1021	mining	Review
10 Develop an incoming website #43	zjelipy	Review
11 Integrate new payments support #1099		Review
12 General bug fixes from Alpha feedback #6005	rileybrighten	Review
13 Integrate with Leaderboard Service #1011	discuss and joiner	Review

Title	Assignees	Status
+ You can use [Control + Space] to add an item		

1.2 Customize Your Project

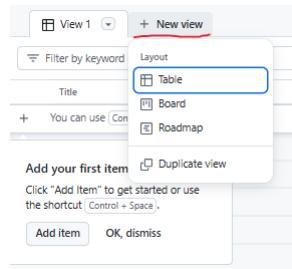
Managing Fields

1. Click the menu in the top-right corner.
2. Select **Settings**.
3. Click **+ New field** to add custom fields (e.g., Priority, Estimated Hours).



Managing Views

- **Add view:** Click **+ New view** and choose **Table**, **Board**, or **Roadmap**.



- **Customize views:** Click the triangle beside a view name to modify its settings.

Project_Sch

Layout

Table Board Roadmap

Configuration

Fields: Title, Assignees, Status... >

Column by: Status >

Group by: none >

Sort by: Priority >

Field sum: Count, Estimate >

Slice by: none >

Generate chart

Rename view

Duplicate view

Delete view

Export view data

+ Add item

1.3 Item Management

Adding Items

You can add tasks in three ways:

P2 S milestone 2

team-project-24spring-teacher-2024 #15

Create new issue

Add item from repository

Start typing to create a draft, or type # to select a repository

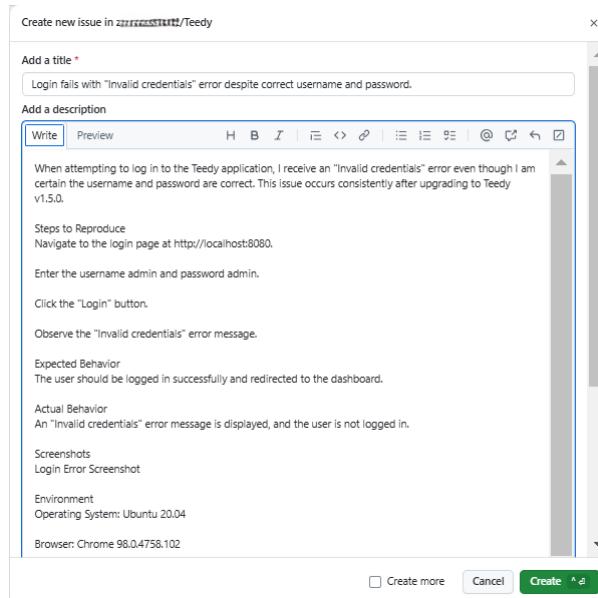
team-project-24spring-teacher-2024 #11

Design and respective modules

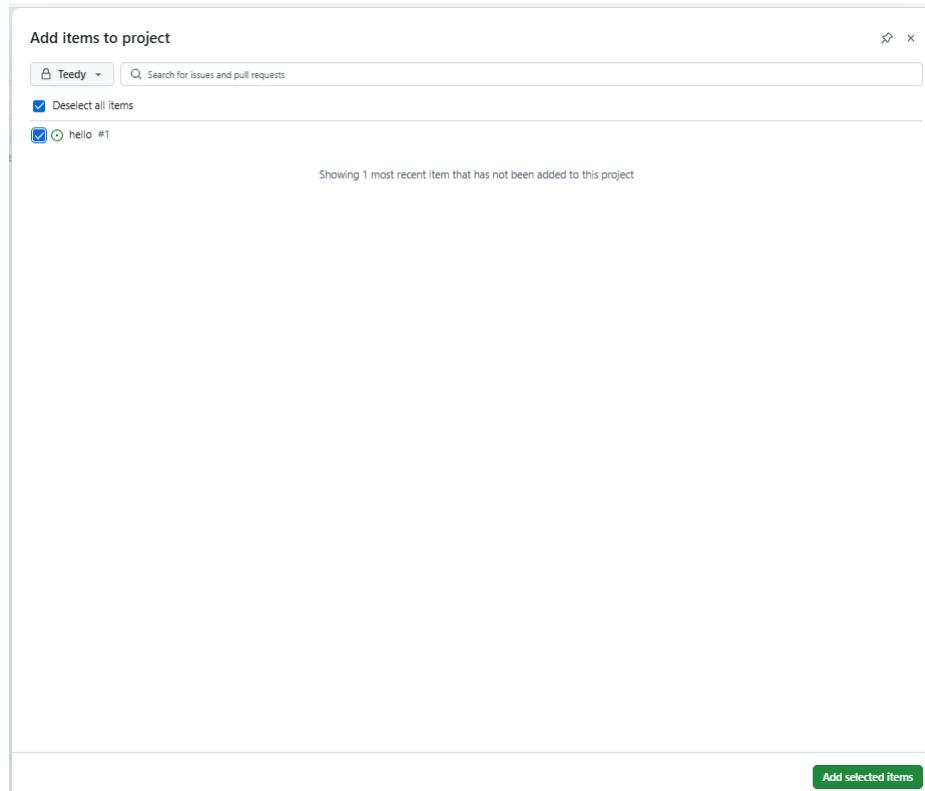
40 M milestone 1

i-project-24spring-teacher-2024 #16

- **create new issue:**



- **add item from repository:**



- **Create a draft then convert it to issue:**

The screenshot shows the GitHub Project Management interface. At the top, there's a header with a plus sign and the text "Yes, it is an item ①". Below this are three buttons: "Create new issue", "Create a draft ②" (which is highlighted with a red box), and "Add item from repository".

The main area is a board view with four columns: "No Status" (1 item), "Todo" (2 items), "In Progress" (0 items), and "Done" (0 items). The "No Status" column contains a single item titled "Draft" with the subtext "Yes, It is an item". This item has a tooltip: "This item hasn't been started". The "Todo" column contains two items: "Teddy #2" (with a tooltip: "Login fails with 'Invalid credentials' error despite correct username and password") and "Teddy #1" (with the subtext "hello").

A modal window is open over the "No Status" column, showing a context menu for the "Draft" item. The menu items are: "Convert to issue" (highlighted with a red box), "Copy link in project", "Move to top", "Move to bottom", "Move to column", "Archive", and "Delete from project".

Editing Items

Click on an item in a view to edit its details.

The screenshot shows a detailed view of an item titled "Project management". The item was created by "tracytian" 38 minutes ago and is currently in "Draft" status. There is no description provided.

The right side of the screen shows an editing interface with various fields and a sidebar:

- Edit** button
- Assignees**: A dropdown menu with "Add assignees..." and "In Progress" selected.
- Status**: A dropdown menu with "Choose an option..."
- Priority**: A dropdown menu with "Choose an option..."
- Size**: A dropdown menu with "Enter a number..."
- Estimate**: A dropdown menu with "Choose an iteration..."
- Iteration**: A dropdown menu with "Feb 18, 2024"
- Start date**: A date input field with "Jun 30, 2024"
- End date**: A date input field with "Jun 30, 2024"

At the bottom of the sidebar, there are additional options: "Convert to issue", "Copy link in project", "Archive", and "Delete from project".

Tracking Items

- Use the **Board View** to track task progress (**To Do**, **In Progress**, **Done**).

- View the repository Issues for a complete list of tasks.

Part 2: Teedy Native Installation

Teedy will be used throughout the course for practicing software engineering concepts. So, in following lab courses, environment and Teedy is essential.

Teedy Repository: [GitHub](#)

Teedy Demo: [Teedy Demo](#)

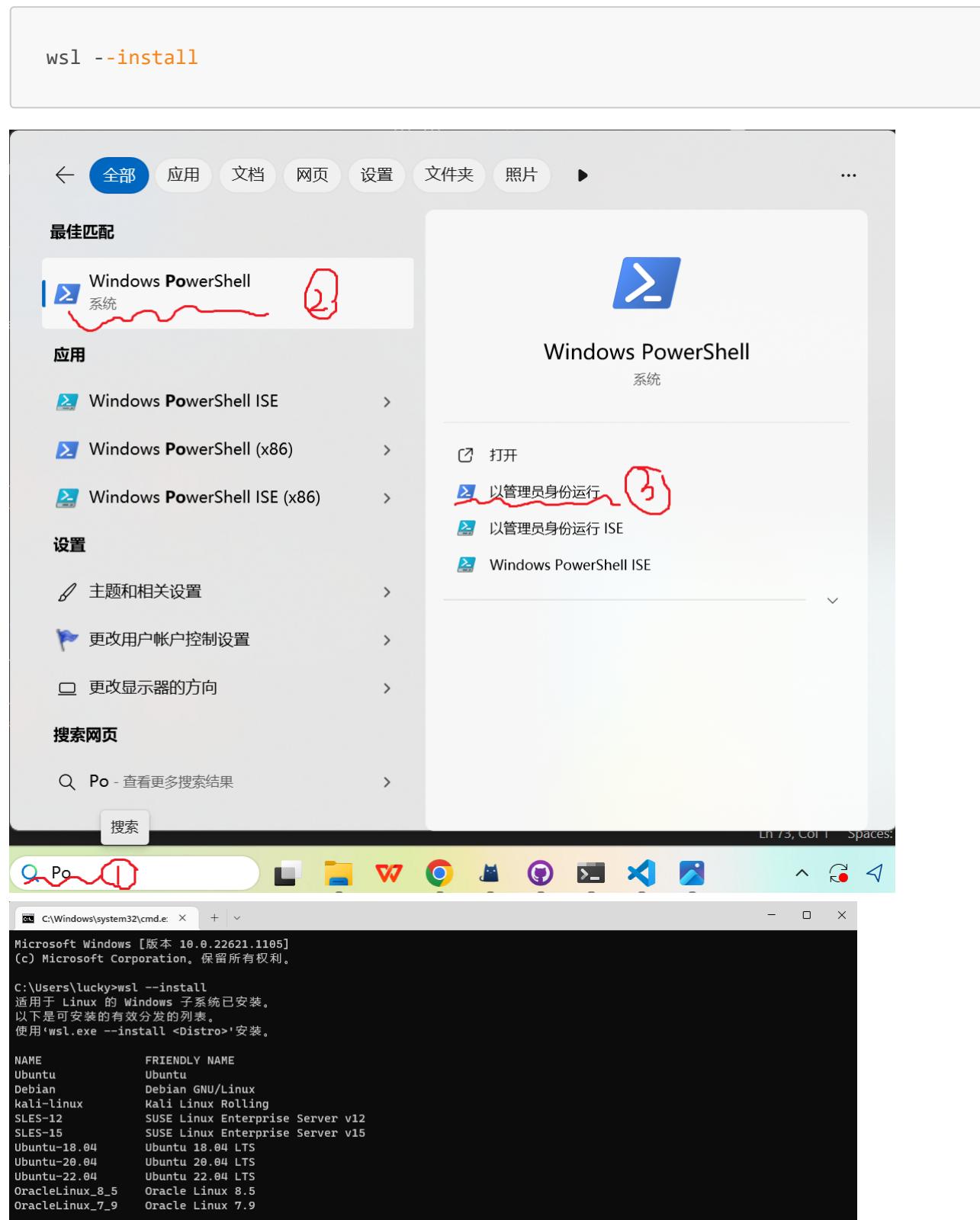
2.1 Environment Setup

Step 1: WSL Installation (Windows Users Only)

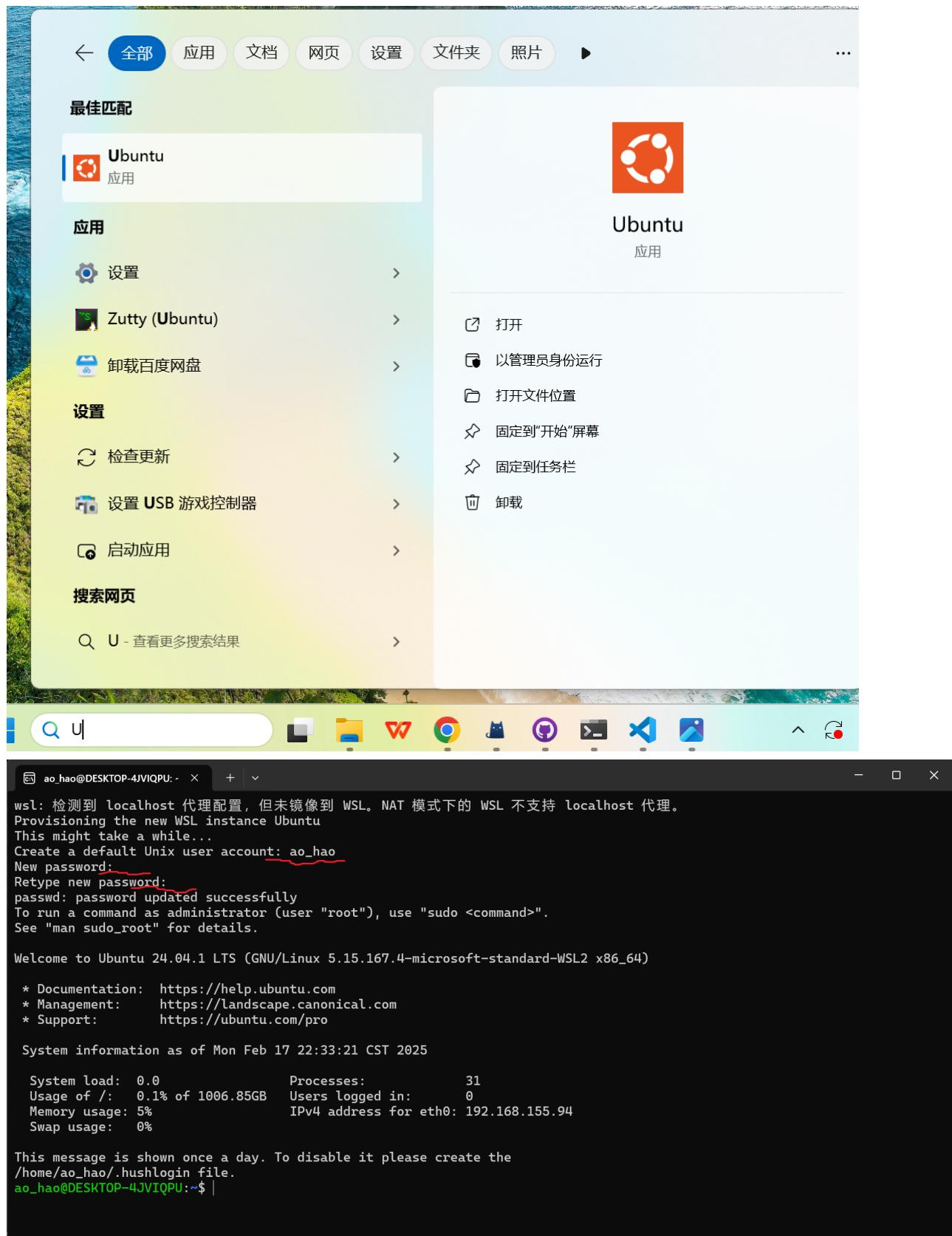
Note: Mac/Linux users can skip this step and proceed directly to Step 2: Dependencies Installation.

You must be running Windows 10 version 2004 and higher (Build 19041 and higher) or Windows 11 to use the commands below. If you are on earlier versions please see the [manual install page](#).

1. Open PowerShell as Administrator and run:



2. Restart your computer, search and open the **Ubuntu**, follow the prompts to set up a Linux username and password.



For more details, refer to the official guide: [Install WSL](#).

Step 2: Dependencies Installation

Before building Teedy from source, ensure that the following prerequisites are installed: **Java 11+, Maven 3+, NPM, Grunt, Tesseract 4, ffmpeg, and mediainfo.**

1. Update the system and remove outdated packages:

```
sudo apt update && sudo apt upgrade -y && sudo apt autoremove -y
```

```
System load: 0.0          Processes:      31
Usage of /: 0.1% of 1006.85GB  Users logged in: 0
Memory usage: 5%           IPv4 address for eth0: 192.168.155.94
Swap usage: 0%             Swap usage: 0% 

This message is shown once a day. To disable it please create the
/home/ao_hao/.hushlogin file.
ao_hao@DESKTOP-4JVIQPU:~$ sudo apt update && sudo apt upgrade -y && sudo apt autoremove -y
[sudo] password for ao_hao:
Get:1 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Hit:2 http://archive.ubuntu.com/ubuntu noble InRelease
Get:3 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:4 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [617 kB]
Get:5 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:6 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [118 kB]
Get:7 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [9020 B]
Get:8 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [803 kB]
Get:9 http://archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 MB]
Get:10 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [171 kB]
Get:11 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.0 kB]
Get:12 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [13.5 kB]
Get:13 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [625 kB]
Get:14 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-en [121 kB]
Get:15 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]
Get:16 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [12.4 kB]
Get:17 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [2940 B]
Get:18 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [208 B]
Get:19 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [356 B]
```

2. Install dependencies:

```
sudo apt install \
    default-jdk \
    ffmpeg \
    grunt \
    maven \
    npm \
    tesseract-ocr-all
```

```
tesseract-ocr-hun is already the newest version (1:4.00~git30-7274cfa-1.1).
tesseract-ocr-ita is already the newest version (1:4.00~git30-7274cfa-1.1).
tesseract-ocr-jpn is already the newest version (1:4.00~git30-7274cfa-1.1).
tesseract-ocr-kor is already the newest version (1:4.00~git30-7274cfa-1.1).
tesseract-ocr-lav is already the newest version (1:4.00~git30-7274cfa-1.1).
tesseract-ocr-nld is already the newest version (1:4.00~git30-7274cfa-1.1).
tesseract-ocr-nor is already the newest version (1:4.00~git30-7274cfa-1.1).
tesseract-ocr-pol is already the newest version (1:4.00~git30-7274cfa-1.1).
tesseract-ocr-por is already the newest version (1:4.00~git30-7274cfa-1.1).
tesseract-ocr-rus is already the newest version (1:4.00~git30-7274cfa-1.1).
tesseract-ocr-spa is already the newest version (1:4.00~git30-7274cfa-1.1).
tesseract-ocr-swe is already the newest version (1:4.00~git30-7274cfa-1.1).
tesseract-ocr-tha is already the newest version (1:4.00~git30-7274cfa-1.1).
tesseract-ocr-tur is already the newest version (1:4.00~git30-7274cfa-1.1).
tesseract-ocr-ukr is already the newest version (1:4.00~git30-7274cfa-1.1).
tesseract-ocr-vie is already the newest version (1:4.00~git30-7274cfa-1.1).
ffmpeg is already the newest version (7:4.4.2-0ubuntu0.22.04.1).
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
```

2.2 Teedy Installation

Step 1: Create repository and clone

- Create a new repository in your GitHub account Using the Teedy template:<https://github.com/sustech-cs304/Teedy> .

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository](#).

Required fields are marked with an asterisk (*).

Repository template



Start your repository with a template repository's contents.

Include all branches

Copy all branches from sustech-cs304/Teedy and not just the default branch.

Owner *



Repository name *

✓ Teedy is available.

Great repository names are short and memorable. Need inspiration? How about [redesigned-octo-happiness](#) ?

Description (optional)

Public

Anyone on the internet can see this repository. You choose who can commit.

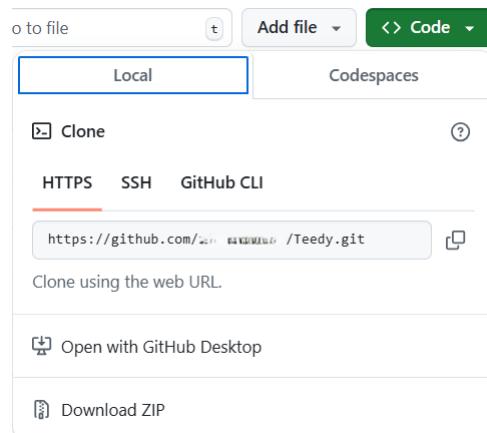
Private

You choose who can see and commit to this repository.

(i) You are creating a private repository in your personal account.

Create repository

- Clone the Teedy repository from your GitHub account using Git commands or GitHub Desktop instead of simply downloading the code. In Week 04, we will use this repository again, and if you only download the code, you will need to clone and set it up again in the next lab.



Step 2: Build the project

1. Navigate the root directory of Teedy:

```
ao_hao@DESKTOP-4JVIQPU:~$ cd /mnt/d/github/Teedy  
ao_hao@DESKTOP-4JVIQPU:/mnt/d/github/Teedy$ |
```

2. Run the following command to build the project:

```
mvn clean -DskipTests install
```

```
ao_hao@DESKTOP-4JVIQPU:~$ cd /mnt/d/github/Teedy  
ao_hao@DESKTOP-4JVIQPU:/mnt/d/github/Teedy$ mvn clean -DskipTests install  
[INFO] Scanning for projects...  
[INFO]   
[INFO] Reactor Build Order:  
[INFO]  
[INFO] Docs Parent [pom]  
[INFO] Docs Core [jar]  
[INFO] Docs Web Commons [jar]  
[INFO] Docs Web [war]  
[INFO]  
[INFO] -----< com.sismics.docs:docs-parent >-----  
[INFO] Building Docs Parent 1.12-SNAPSHOT [1/4]  
[INFO] [ pom ]-----
```

Step 3: Start the Server

1. Navigate to the `docs-web` directory:

```
cd docs-web
```

2. Start the Jetty server by running the following command from the `docs-web` directory:

```
mvn jetty:run
```

```
[INFO] -----
ss@tl:/mnt/d/001_course/2023s_se/pro/teedy$ cd docs-web
ss@tl:/mnt/d/001_course/2023s_se/pro/teedy/docs-web mvn jetty:run
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.sismics.docs:docs-web >-----
[INFO] Building Docs Web 1.10
[INFO] -----[ war ]-----
[INFO]
```

```
ao_hao@DESKTOP-4JV1QPU: /mnt/d/github/Teedy2/docs-web
: dbupdate-031-0.sql
20 Feb 2025 11:15:17,692 DEBUG com.sismics.util.jpa.DbOpenHelper.executeScript(DbOpenHelper.java:167) insert into T_CONFIG (CFG_ID_C, CFG_VALUE_C) values ('OCR_ENABLED', 'true');
20 Feb 2025 11:15:17,693 DEBUG com.sismics.util.jpa.DbOpenHelper.executeScript(DbOpenHelper.java:167) update T_CONFIG set CFG_VALUE_C = '31' where CFG_ID_C = 'DB_VERSION';
20 Feb 2025 11:15:17,693 INFO com.sismics.util.jpa.DbOpenHelper.open(DbOpenHelper.java:108) Database upgrade complete
20 Feb 2025 11:15:17,695 INFO com.sismics.util.jpa.EMF.getEntityManagerProperties(EMF.java:67) Configuring EntityManager from hibernate.properties
20 Feb 2025 11:15:30,360 INFO com.sismics.util.ClasspathScanner.findClasses(ClasspathScanner.java:48) Found 1 classes for IndexingHandler
20 Feb 2025 11:15:30,827 INFO com.sismics.docs.core.util.indexing.LuceneIndexingHandler.initLucene(LuceneIndexingHandler.java:129) Using RAM Lucene storage
20 Feb 2025 11:15:31,659 INFO com.sismics.docs.core.service.FileService.startUp(FileService.java:39) File service starting up
20 Feb 2025 11:15:31,715 INFO com.sismics.docs.core.service.InboxService.startUp(InboxService.java:52) Inbox service starting up
20 Feb 2025 11:15:31,724 INFO com.sismics.docs.core.service.FileSizeService.startUp(FileSizeService.java:30) File size service starting up
20 Feb 2025 11:15:33,329 INFO com.sismics.docs.core.service.FileSizeService.lambda$runOneIteration$0(FileSizeService.java:50) No more file to process, stopping the service
20 Feb 2025 11:15:33,341 INFO com.sismics.docs.core.service.FileSizeService.shutDown(FileSizeService.java:35) File size service shutting down
[INFO] Started o.e.j.m.p.MavenWebAppContext@29bbc391{Teedy, /docs-web, [file:///mnt/d/github/Teedy2/docs-web/src/main/webapp/], AVAILABLE} {file:///mnt/d/github/Teedy2/docs-web/src/main/webapp/}
[INFO] Started ServerConnector@2b720a2c[HTTP/1.1, (http/1.1)] {0.0.0.0:8080}
[INFO] Started Server@32ae8f27[STARTING] [11.0.20, sto=0] @38250ms
[INFO] Automatic redeployment disabled, see 'mvn jetty:help' for more redeployment options
```

3. Open your browser and visit: <http://localhost:8080>.

Click the [/docs-web](#) link:



Error 404 - Not Found.

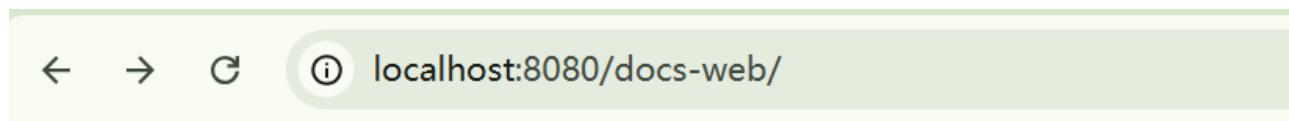
No context on this server matched or handled this request.

Contexts known to this server are:

Context Path	Display Name	Status	LifeCycle
/docs-web	Teedy	Available	STARTED

 [Powered by Eclipse Jetty:// Server](#)

Click the [src/](#) link:

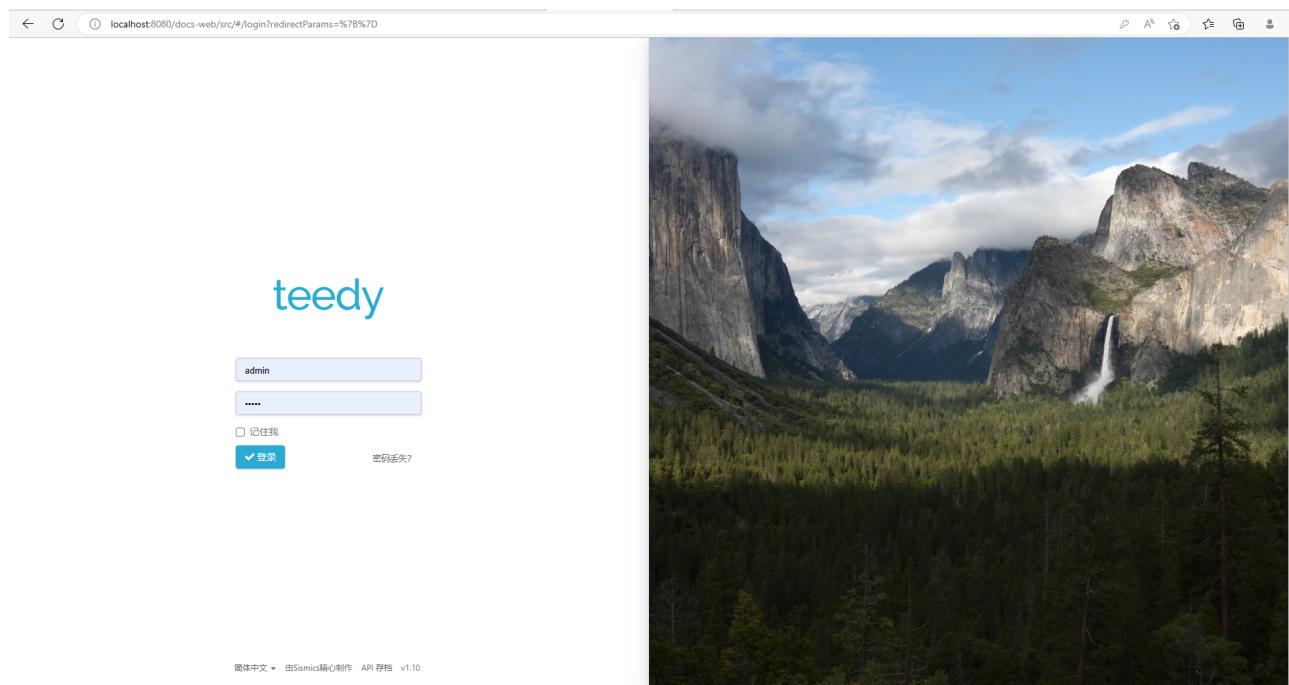


Directory: /docs-web/

Name ↑	Last Modified	Size
.gitignore	Feb 18, 2025, 4:26:10PM	38 bytes
Gruntfile.js	Feb 18, 2025, 4:26:10PM	5,028 bytes
header.md	Feb 18, 2025, 4:26:10PM	4,803 bytes
package.json	Feb 18, 2025, 4:26:10PM	1,282 bytes
package-lock.json	Feb 18, 2025, 4:26:10PM	83,208 bytes
src/	Feb 18, 2025, 4:26:10PM	4,096 bytes
WEB-INF/	Feb 18, 2025, 4:26:10PM	4,096 bytes

Log in with:

- **Username:** admin
- **Password:** admin



You're all set! Start exploring Teedy.



References:

1. GitHub project Documentation:

<https://docs.github.com/en/issues/planning-and-tracking-with-projects>

2. Automatic WSL Installation :

EN : <https://learn.microsoft.com/en-us/windows/wsl/install>

CN : <https://learn.microsoft.com/zh-cn/windows/wsl/install>

3. Manual WSL Installation:

EN : <https://learn.microsoft.com/en-us/windows/wsl/install-manual>

CN : <https://learn.microsoft.com/zh-cn/windows/wsl/install-manual>

4. Troubleshooting Installation Issues:

<https://learn.microsoft.com/en-us/windows/wsl/troubleshooting#installation-issues>

<https://learn.microsoft.com/zh-cn/windows/wsl/troubleshooting#installation-issues>

<https://zhuanlan.zhihu.com/p/386590591>