



UTM
UNIVERSITI TEKNOLOGI MALAYSIA



MODULE 3 : INTRODUCTION TO GITHUB

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MODULE OUTLINE



01 Overview of GitHub Features & Benefits

02 What is Repository?

03 Creating GitHub Account

04 Creating New Repository GitHub

01

OVERVIEW OF GITHUB FEATURES & BENEFITS



GITHUB FEATURES & BENEFITS



**Individual Developers
& Small Team**

Online Hosting
Platform for Git
Repository

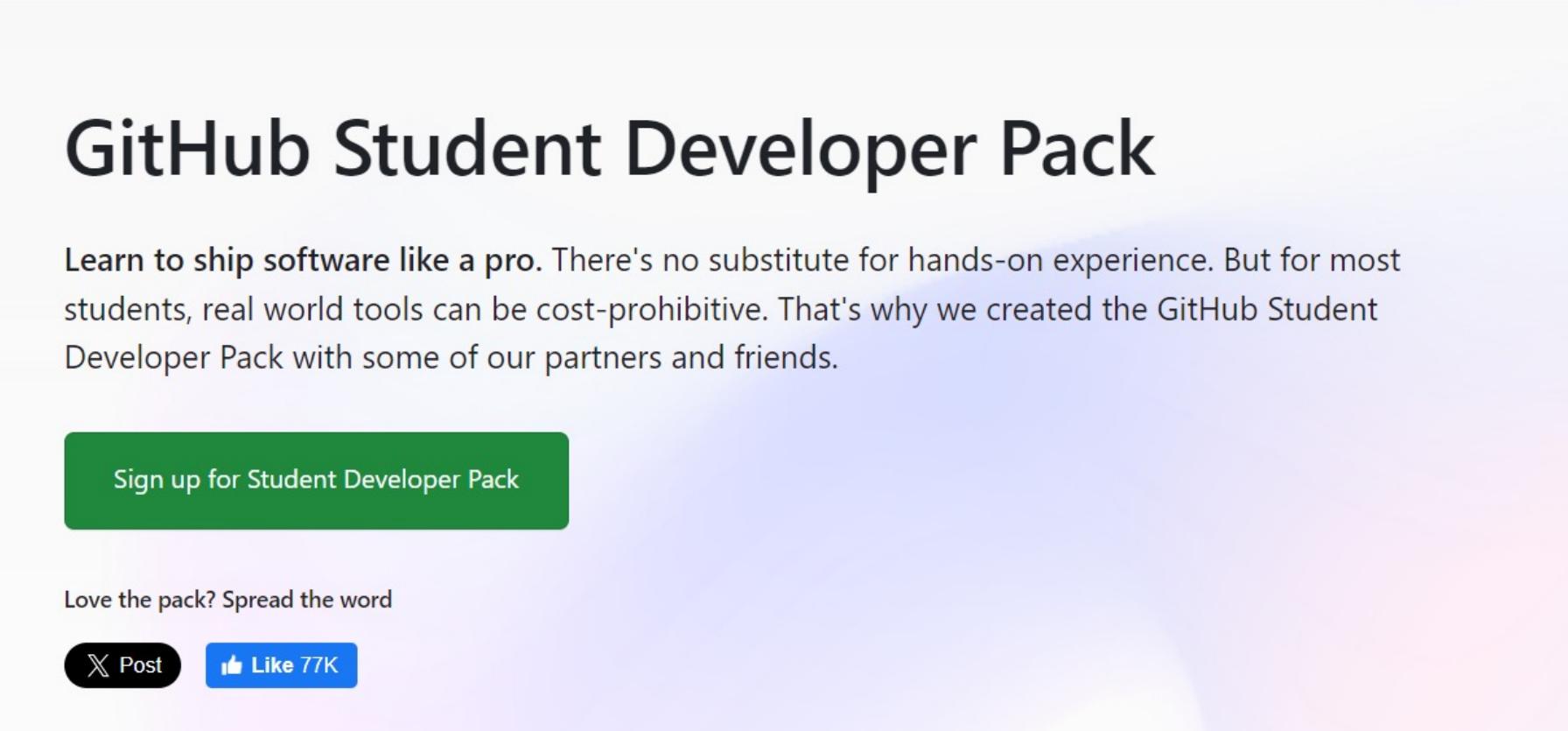
Developers to
Collaborate on
Project

Track Changes to
Code

GITHUB FEATURES & BENEFITS



<https://education.github.com/pack#offers>



The screenshot shows the GitHub Student Developer Pack landing page. At the top left is the GitHub logo and the word "Education". At the top right are "Students" and "Teachers" dropdown menus. The main title is "GitHub Student Developer Pack". Below the title is a paragraph about the pack's purpose: "Learn to ship software like a pro. There's no substitute for hands-on experience. But for most students, real world tools can be cost-prohibitive. That's why we created the GitHub Student Developer Pack with some of our partners and friends." A green button says "Sign up for Student Developer Pack". Below the button is a section titled "Love the pack? Spread the word" with "X Post" and "Like 77K" buttons.

Education

Students ▾ Teachers ▾

GitHub Student Developer Pack

Learn to ship software like a pro. There's no substitute for hands-on experience. But for most students, real world tools can be cost-prohibitive. That's why we created the GitHub Student Developer Pack with some of our partners and friends.

Sign up for Student Developer Pack

Love the pack? Spread the word

X Post Like 77K

GITHUB FEATURES & BENEFITS



https://education.github.com/discount_requests/application

A screenshot of the GitHub Education website. At the top, there's a navigation bar with links for "Education", "Students", "Teachers", "Schools", "Benefits" (which is highlighted in blue), "Events", "Global Campus", and "Community Exchange". Below the navigation, the URL "https://education.github.com/discount_requests/application" is shown. The main content area has a heading "Get your GitHub benefits" and a sub-heading "Learn and teach using real-world developer tools". A section titled "Select your academic status *" contains two radio button options: "Teacher" (selected) and "Student". Below this, a link "Benefits for Teachers" leads to a section with icons for "GitHub Team" and "GitHub Classroom".

Education Students Teachers Schools Benefits Events Global Campus Community Exchange

Home / Benefits / Benefits application

Get your GitHub benefits

Learn and teach using real-world developer tools

Select your academic status *

Teacher Student

Benefits for Teachers

Autograding
Assignment

A detailed view of the "Benefits for Teachers" section. It shows two cards: one for "GitHub Team" (with an icon of three people) and one for "GitHub Classroom" (with an icon of a document). Both cards have a "TEACHER" label in the top right corner.

TEACHER

FREE [GitHub Team](#) for courses, coding clubs, and nonprofit research

TEACHER

[GitHub Classroom](#) for managing assignments

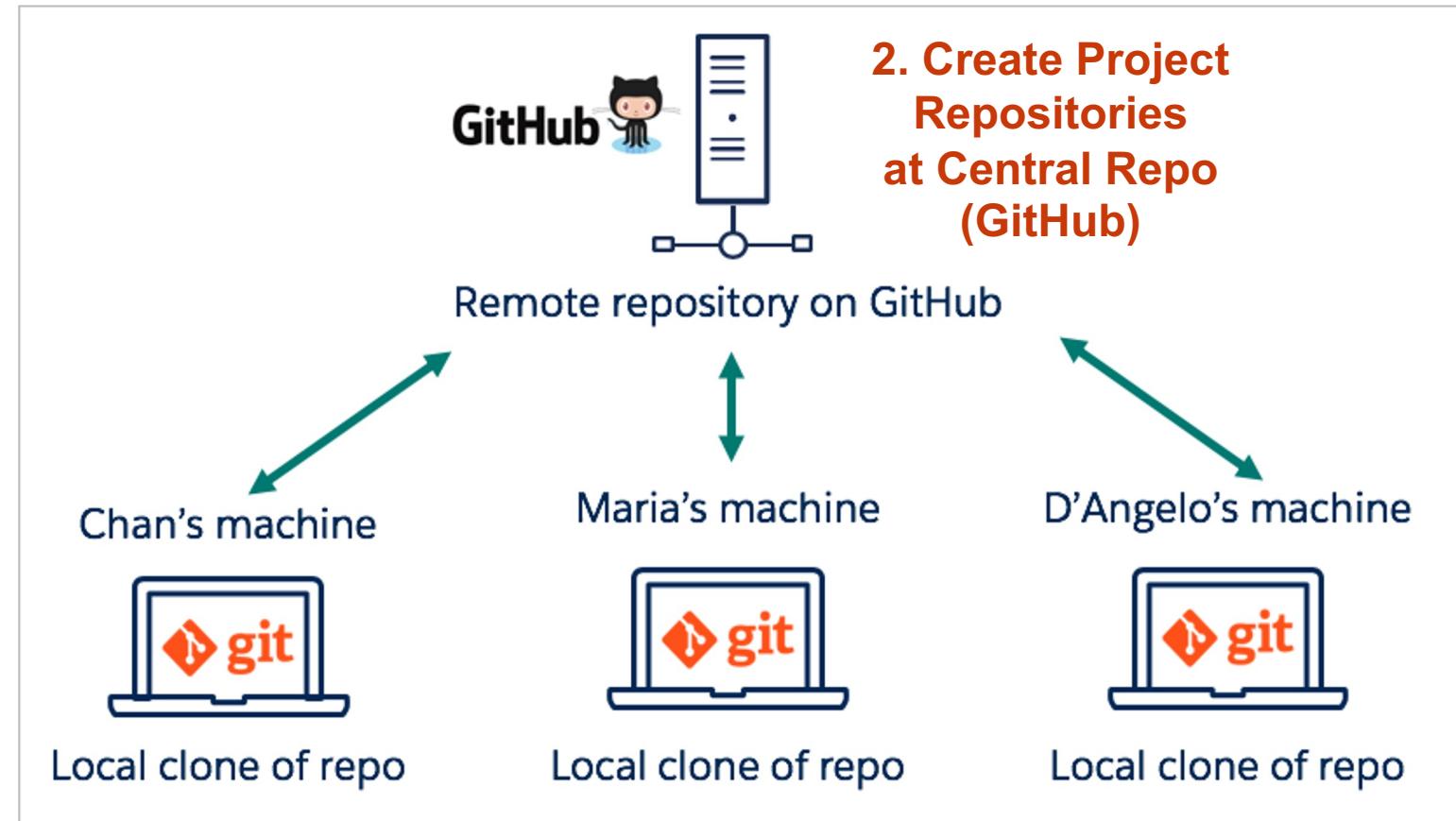
02

WHAT IS REPOSITORY?



WHAT IS REPOSITORY?

- **Repository** : is a **storage space to accommodate the projects**
- The location can be **local to a folder on user computer** or it can be a **storage space on GitHub**

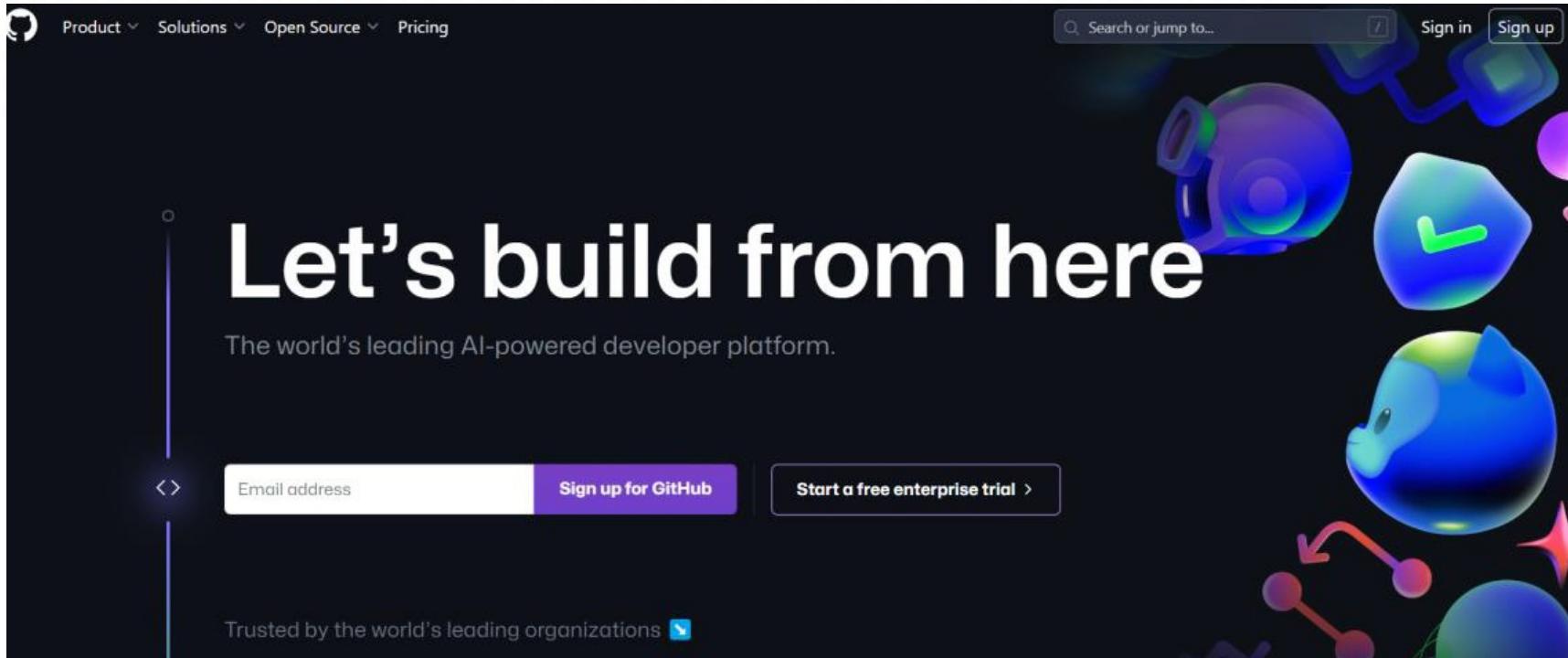


1. Initialize Repositories (Locally) from Local Machine

03

CREATING GITHUB ACCOUNT



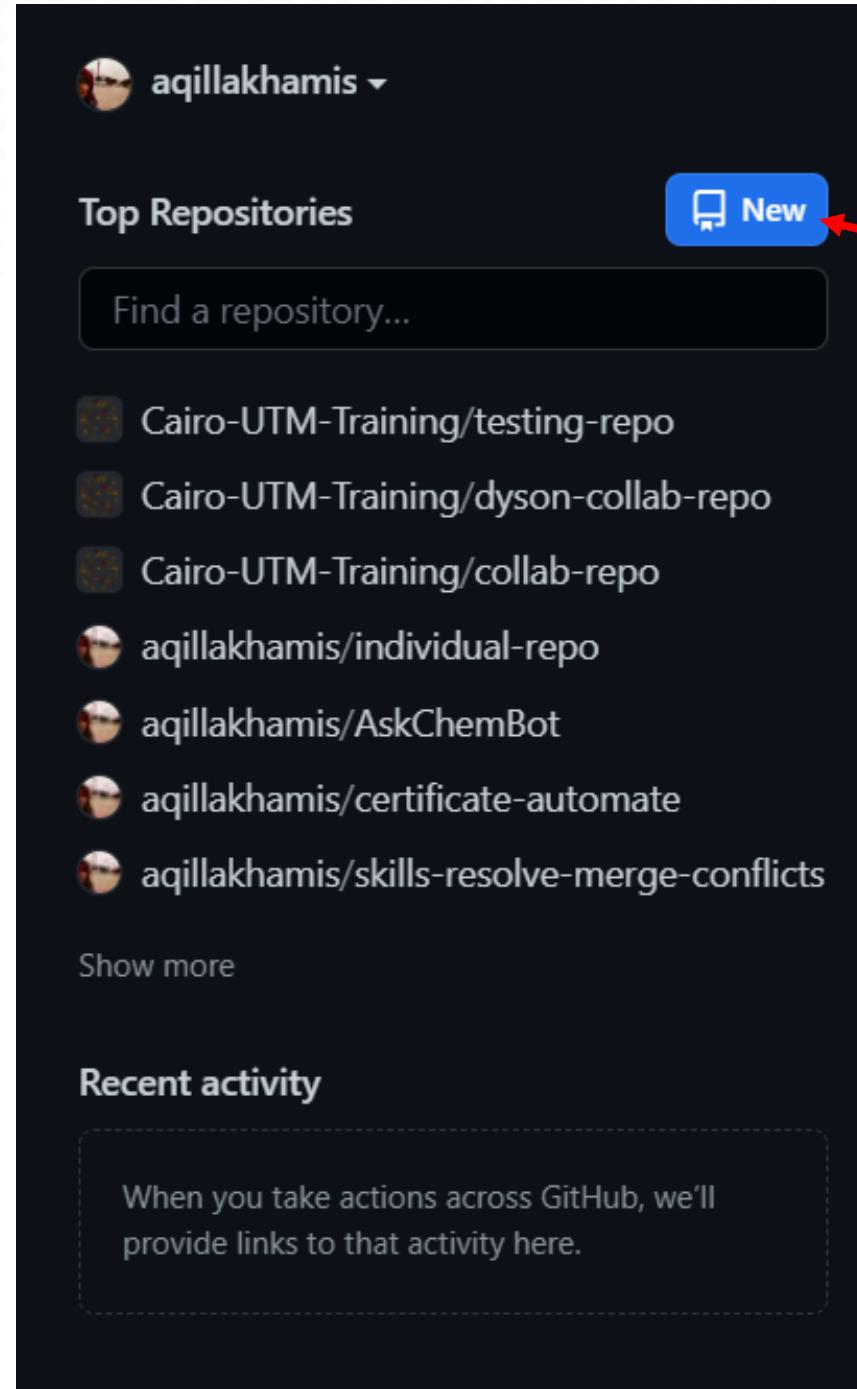


- Go to this website www.github.com and sign up for new user
- Please use your personal email account (ensure that similar email use for git configuration)

04

CREATING NEW REPOSITORY GITHUB





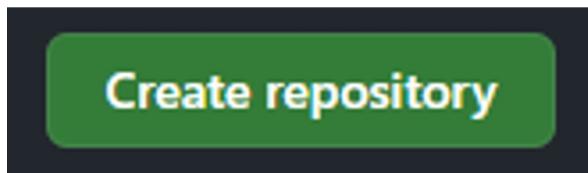
A screenshot of a GitHub profile page for the user "aqillakhamis". The page displays "Top Repositories" with a search bar labeled "Find a repository...". Below the search bar is a blue button with a plus sign and the word "New". A red arrow points from the text "click 'New' for new repository" to this button. The repository list includes:

- Cairo-UTM-Training/testing-repo
- Cairo-UTM-Training/dyson-collab-repo
- Cairo-UTM-Training/collab-repo
- aqillakhamis/individual-repo
- aqillakhamis/AskChemBot
- aqillakhamis/certificate-automate
- aqillakhamis/skills-resolve-merge-conflicts

At the bottom, there is a "Recent activity" section with a note: "When you take actions across GitHub, we'll provide links to that activity here."

click “New” for new repository

1. Repository name: Create similar project name from your local machine repo - “GitHubProject”
2. Description – Optional
3. Public @ Private Repo? (Your Choice)
4. Click “Create repository”



Create a new repository

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

Repository template

Start your repository with a template repository's contents.

No template ▾

Owner *  aqillakhamis /

Great repository names are short and memorable. Need inspiration? How about [fuzzy-computing-machine?](#)

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.

Initialize this repository with:
Skip this step if you're importing an existing repository.

Add a README file
This is where you can write a long description for your project. [Learn more.](#)

Add .gitignore
Choose which files not to track from a list of templates. [Learn more.](#)

.gitignore template:

Choose a license
A license tells others what they can and can't do with your code. [Learn more.](#)

License:

 You are creating a public repository in your personal account.



THANK YOU



Centre for Artificial Intelligence and Robotics



research.utm.my/cairo/



cairo@utm.my / trainer's email