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

git + GitHub

FREE

Individual Developers & Small Team
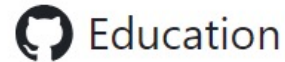
Online Hosting Platform for Git Repository

Developers to Collaborate on Project
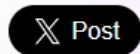
Track Changes to Code

GITHUB FEATURES & BENEFITS

GITHUB FEATURES & BENEFITS

CAIRO UTM

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

Education
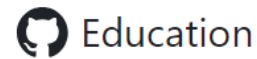
Students ▾   Teachers ▾   Schools   Benefits   Events   Global Campus   Community Exchange

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

	TEACHER
FREE GitHub Team for courses, coding clubs, and nonprofit research	

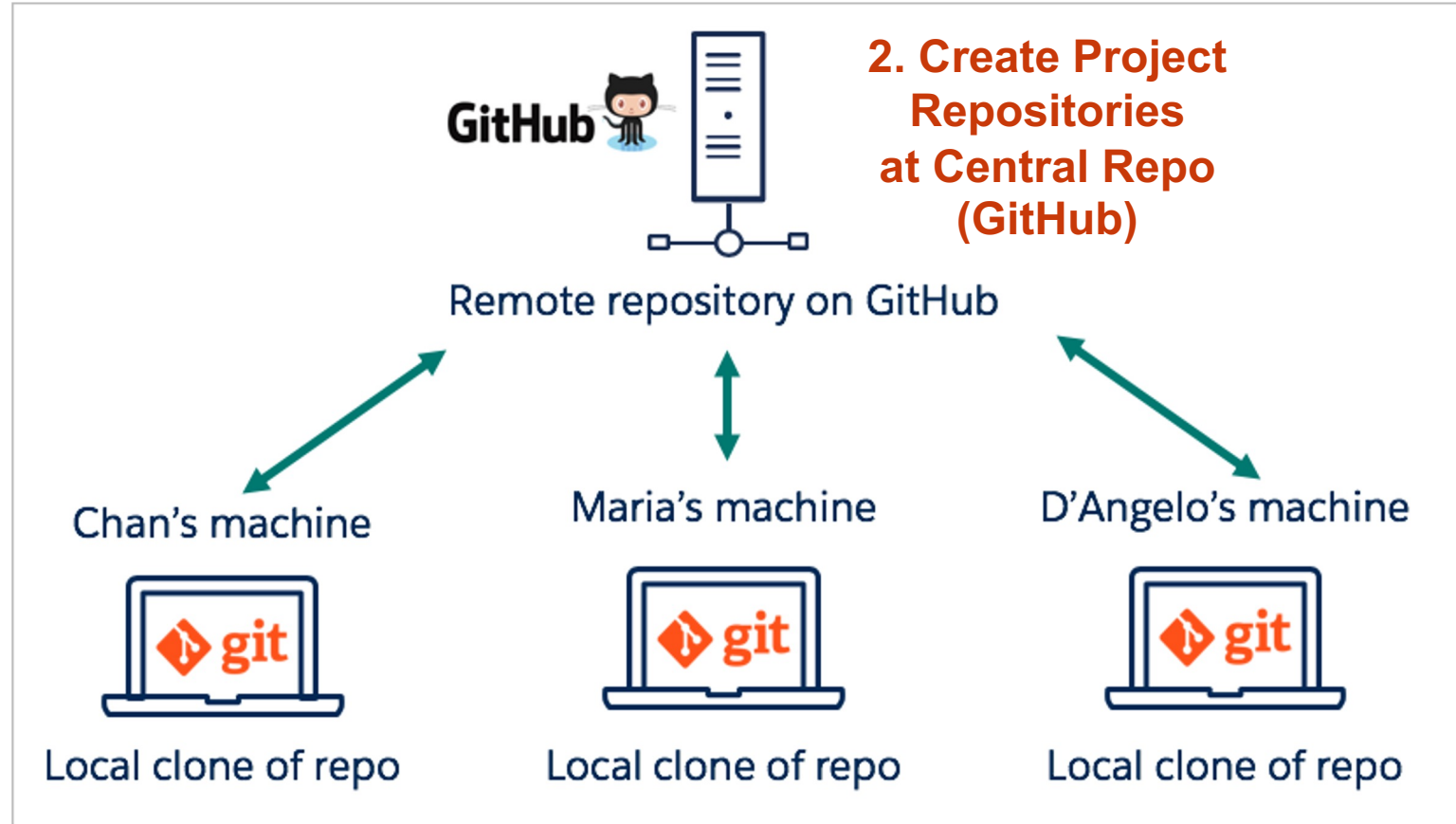|	TEACHER
GitHub Classroom for managing assignments	

Autograding Assignment

02
WHAT IS REPOSITORY?

WHAT IS REPOSITORY?

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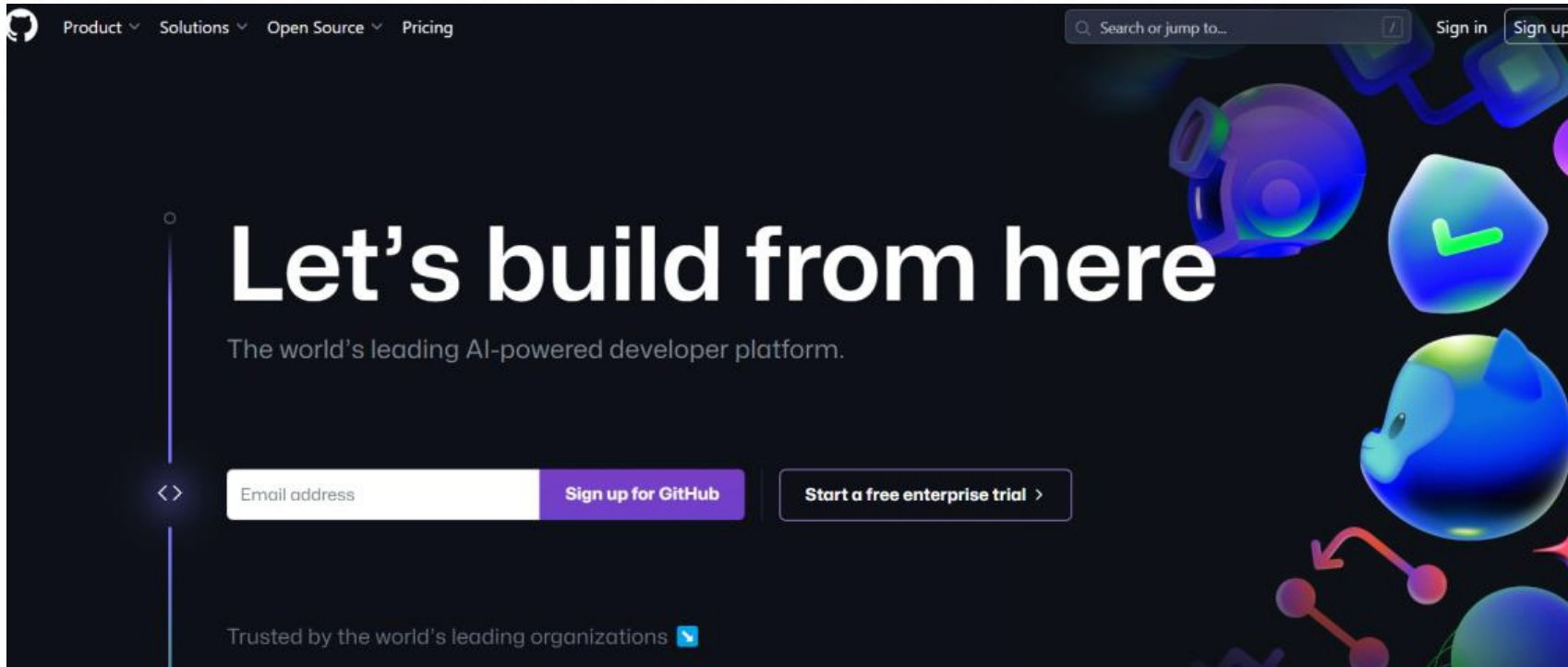- The location can be **local to a folder on user computer** or it can be a **storage space on GitHub**

2. Create Project Repositories at Central Repo (GitHub)

GitHub

Remote repository on GitHub

Chan's machine

Maria's machine

D'Angelo's machine

git

git

git

Local clone of repo

Local clone of repo

Local clone of repo

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

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 ▾ /

Repository name *

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: None ▾

Choose a license
A license tells others what they can and can't do with your code. **Learn more.**

License: None ▾

ⓘ You are creating a public repository in your personal account.

THANK YOU

f   **Centre for Artificial Intelligence and Robotics**

⊕   **research.utm.my/cairo/**

✉   **cairo@utm.my / trainer's email**