

Please note that as this Training Programme is currently in the pilot phase, the structure, syllabus, and contents of this slide deck are provisional and may be subject to change. Thank you for your understanding.



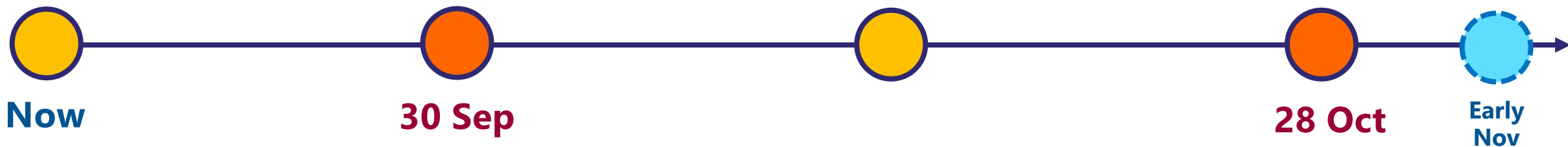
AI Champions Bootcamp

Project Ideas & Solutioning

START



Overall Timeline



**Break
Week**



**Training
Ends**



**Confirm
Project**



**Build
Proof-of-Concept
Prototype**



**Submit
App**



**Demo
Day***

**4 Weeks
(by 30 SEP)**

- Submit project idea
- Form teams (optional)
- Finalize project ideas and team members *before 30-SEP-2024 12pm*

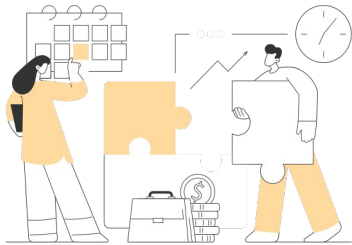

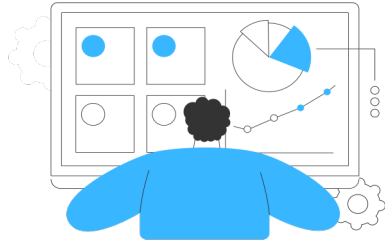
**4 Weeks
(1 OCT to 27 OCT)**

- Develop Proof-of-Concept (POC) Prototype¹
- Submit URL to the [hosted solution](#)²
before 28-OCT-2024 12pm

- ¹ See next slide "**What Proof-of-Concept Prototype to Build?**" for the different options for PoC Prototypes.
- ² "*hosted*" means the POC prototype must be deployed on a hosting service and accessible by others via Internet. For more information on the hosting options available for the different project types, please refer to the later slides that detail the project types.
- *Demo Day is applicable to those participants whose PoC Prototypes are based on (Type A - LAUNCH! OR Type B – Agency's Project) AND are selected to present.

What Proof-of-Concept Prototype to Build?



			
Options	<p><u>Type A</u> Idea @ Launch Ideathon</p> <p>(Go Page 6 for details)</p>	<p><u>Type B</u> Agency Project</p> <p>(Go to Page 10 for details)</p>	<p><u>Type C</u> Capstone Project</p> <p>(Go Page 12 for details)</p>
Description	<p>Pick an idea from Launchpad's "Ideate" page, be it "LAUNCH! Ideathon 2024" or your agency's ideathon on Ideathon (launchpad.gov.sg)</p>	<p>Idea or problem statement from your agency or work area. Ideally this should be a use case that generally recognized by the agency/division and will bring practical value/benefits.</p>	<p>A capstone project that requires you to apply learnt skills and technique into a coherent solution.</p>
Members per Project	1-3	1-3	1
Benefits	<ul style="list-style-type: none"> Eligible to apply for a) a WOG platform for hosting the solution during the program and b) API access to a series of LLMs (see more on page 14) Eligible to be recommended by agency or selected by organizing team to showcase solution at a WOG-wide event in Nov 2024, with opportunities for further collaboration or funding. 		<ul style="list-style-type: none"> Apply learned skill and techniques to build and deploy a solution on the cloud.

Overall Timeline & Important Dates (2024)



Week	Targets	Dates
POC Week 1	<ul style="list-style-type: none">Methodology, solution design, and Mock-up	<ul style="list-style-type: none">Suggested: 1-OCT to 06-OCT
POC Week 2	<ul style="list-style-type: none">Implementing the core processes as Python Scripts	<ul style="list-style-type: none">Suggested: 06-OCT to 13-OCT
POC Week 3	<ul style="list-style-type: none">Implementing the POC (with dynamic inputs)	<ul style="list-style-type: none">Suggested: 13-OCT to 20-OCT
POC Week 4	<ul style="list-style-type: none">Implementing the POC (with dynamic inputs)	<ul style="list-style-type: none">Suggested: 21-OCT to 27-OCT
POC Submission	<ul style="list-style-type: none">Submission of POC	<ul style="list-style-type: none">Hard Deadline: <u>28-OCT 12 p.m. (noon)</u>
Showcase	<ul style="list-style-type: none">Demo session for Selected POCs<ul style="list-style-type: none">Applicable for Project Type A and BIndividuals/teams will be informed in early OctoberProject Sponsors & Stakeholders are invited	<ul style="list-style-type: none"><i>Tentative: Between 6-Nov to 15-Nov</i>

Note:

- If you go with Project Type A (Ideathon from LaunchPad.gov.sg) or Type B (Agency's Project), please help to block off 15 November on your calendar.
- We are making every effort to invite as many teams as possible to join us for Demo Day.

Completion Requirements

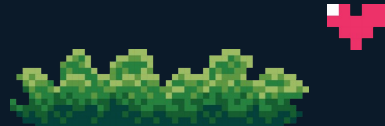


Components	Descriptions
Quizzes	✓ Pass all 3 quizzes at minimum 65% (passing mark)
Project	<ul style="list-style-type: none">✓ Meet the Milestones of the Project<ul style="list-style-type: none">✓ Finalize your choice on the project type before 30-SEP-2024, 12pm (noon)✓ Submit project idea on <i>Launchpad.gov.sg</i> before 30-SEP-2024, 12pm (noon)✓ Submit the URL to hosted POC prototype before 28-OCT-2024, 12pm (noon)*

Note:

- # This is applicable to participants who choose project **Type A**) - Idea on LaunchPad and **Type B**) idea from Agency.
- * This is a hard deadline. This requirement is applicable to **ALL project types**, including Type C) Capstone Assignment.

Project Type A: Ideas from Launchpad.gov.sg



Steps for Ideas from Launchpad.gov.sg

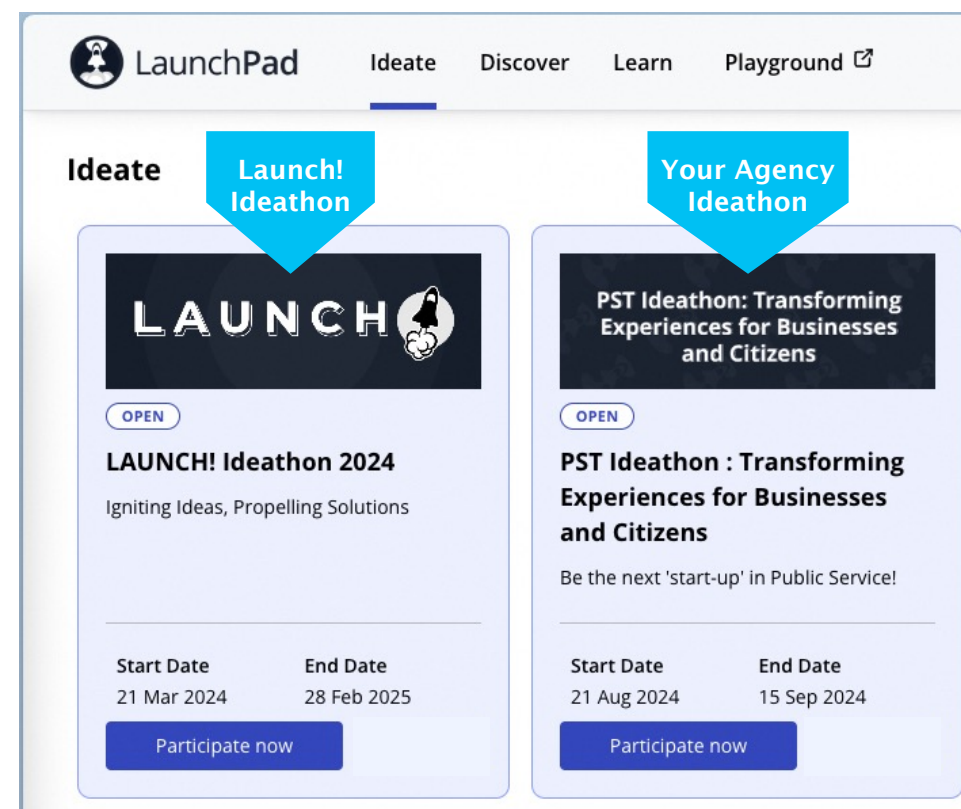
- Step 1: Login to [LaunchPad](https://launchpad.gov.sg/) (<https://launchpad.gov.sg/>) from your work laptop (e.g., GSIB)
- Step 2: Identify an Idea under the “Ideate” tab
 - Step 2.1 – Explore the Ideathons

The idea can come from:

 - A) the “**Launch! Ideathon 2024**” is a WOG-wide ideathon where officers across the WOG submitted their ideas or problem statements,
OR
 - B) Any of **the agency-level** ideathons that you have access and they automatically appear as a “card” under the “**Ideate**” tab.

Note:

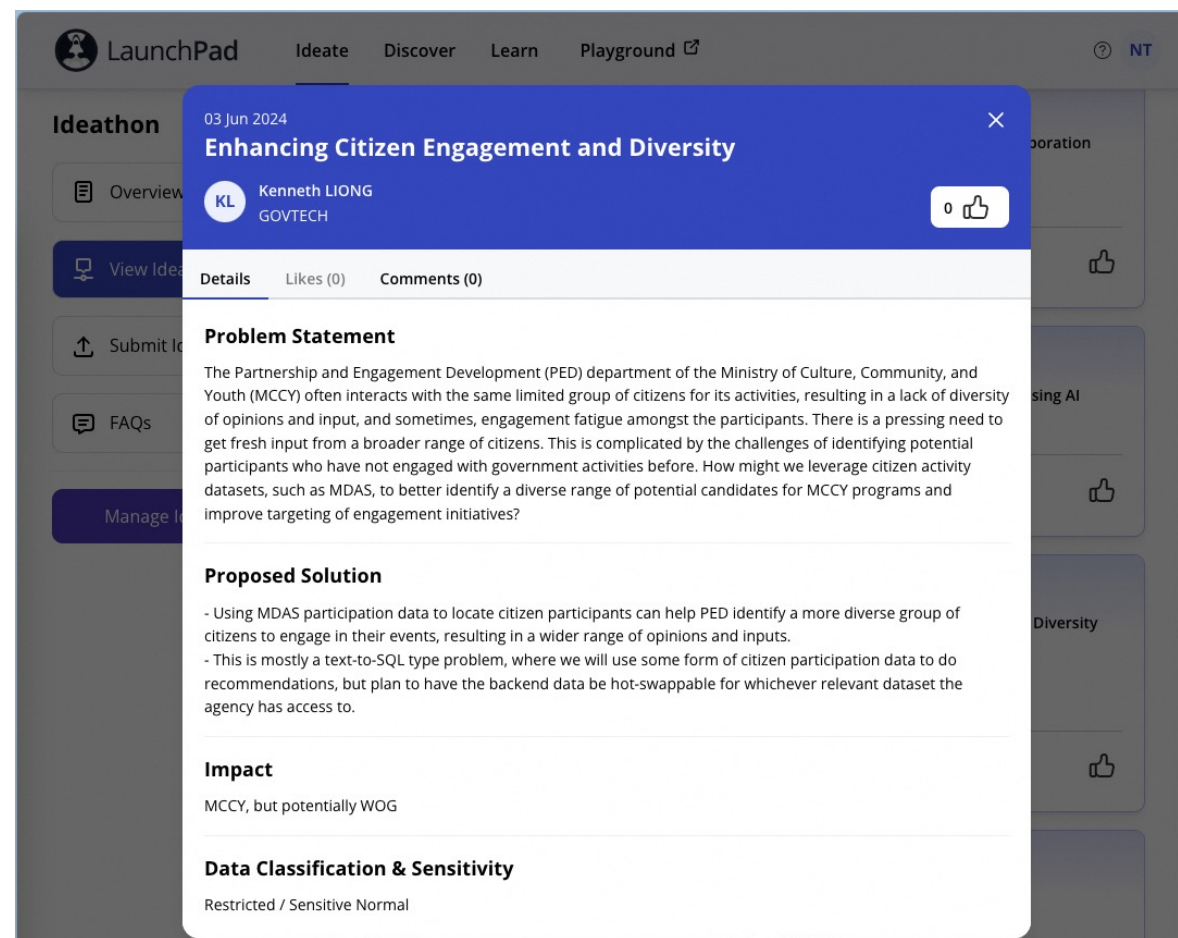
- Access to LaunchPad is <https://launchpad.gov.sg> needed to choose Project Type A.
- You may only see “**Launch! Ideathon 2024**” (the card on the left in the screenshot), if there is yet an agency-specific ideathon from your agency.



Steps for Ideas from Launchpad.gov.sg

■ Step 2.2 – View the Ideas

- Click **“View Ideas”** from the left panel, once you are on an ideathon page
- Choose any **“cards”** on page to view the details of a particular idea
- You **could contact the idea owner** to find out more about the idea
 - While this is recommended for you to find out more details of the idea or to collaborate with the idea owner, it is not a mandatory.
 - The name and agency of the idea owner can be found below the “title” of the idea



Steps for Ideas from Launchpad.gov.sg

■ Step 3: Submit your proposal

- Find “**AI Champions Bootcamp (WOG 2024)**” under “Ideate”, click on “**Participate now**”
- Click on “**Submit Ideas**” (blue button) from the left panel
- Fill up the details about your project
 - Refer to a sample [here](#):
 - **Problem Statement:**
 - Include the “Title” of the idea which you’re based on as part of your problem statement (See next page for details and example)
 - **Project Type Tag:** select “**ideathon**”
 - **Team Members:** MUST include yourself
 - **Data Classification:** The original or highest of data classification and sensitivity)
Note: For this prototype development later, down class to Restricted (Sensitive Normal) or lower. E.g., using dummy data.
- Click on **Submit button** at the bottom of the page
 - You can modify the info in your entry, as many times as possible, **before 30-SEP-2024**

LaunchPad Ideate Discover Learn Playground NT

Ideathon

- Overview
- View Ideas
- Submit Ideas**

Submit your idea

Overview

Title *

Problem Statement *

- Describe the problem you are trying to solve; - What is wrong with the current situation? (e.g. How does this problem affect your agency or involved individuals?); - What is the magnitude of this problem? (e.g. number officers/citizens are affected, financial costs incurred, or productivity hours affected); - At the end, sharpen it into a question

Proposed Solution *

- How would you try to solve this problem?; - How would you think Large Language Model(s) can be used to support your solution?; - Are there any alternative solutions you have considered?

Impact *

- How would things be improved after the solution is implemented?; - How often the solution will be used?; - What is the estimated time-saving or financial-saving per year (from agency's or WOG perspective)?

Project Sponsors & Users *

- Is this project's impact big enough to get the attention of the senior management?; - Who are the users of the LLM applications?

Project Type Tag *

Team Members

+ Add 1/3 team members

☐ I am seeking and/or open to having additional members join my team.

Data Classification & Sensitivity

Select the highest data classification and sensitivity for your idea

Data Classification Sensitivity

Apply for LLM APIs and hosting environment that can host up to Restricted (Sensitive Normal)

I understand that this is subject to assessment of the project and there are conditions for usage the LLM APIs and hosting environment

☐ Yes

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Note:

- ⚠ if you are unable to see “AI Champions Bootcamp (WOG 2024)” under “Ideate” tab on Launchpad.gov.sg, please email nick_tan@tech.gov.sg
- Each team (single-member or multi-member) will only require to **submit one project idea**.

Steps for Ideas from Launchpad.gov.sg

- Copy the "Title" of the idea which your proposal/idea is based on and incorporate it at the end of the "Problem Statement" field

LaunchPad Ideate Discover Learn Playground

Ideathon

- Overview
- View Ideas
- Submit Ideas
- Manage Ideathon

Problem Statement *

- Describe the problem you are trying to solve; - What is wrong with the current situation? (e.g. How does this problem affect your agency or involved individuals?); - What is the magnitude of this problem? (e.g. number officers/citizens are affected, financial costs incurred, or productivity hours affected); - At the end, sharpen it into a question; - "Title" of the idea which this is based on

The estimated time the team spent on this inquiry type is about 43,200 productivity hours per year ([6hrs x 5 days x 4 weeks x 12 months] x 30 reps), or approximately \$864,000 per year with average hour wage of \$20.

Title: Automatic Data Security Classifier

LaunchPad Ideate Discover Learn Playground

16 Apr 2024

Automatic Data Security Classifier

DL Daniel LIEW EMA

6 Likes

Details Likes (6) Comments (0)

Problem Statement

Given the metadata of a dataset such as columns and a brief description of the dataset, classify the security level (e.g. Official (Open), Restricted, etc) of each column. This would reduce the need for officers to manually eyeball each column

(This problem statement was also raised by EMA during the WOG 2023 Ideathon and also as one of the DSC '23 Hackathon shortlisted problems. Data dictionaries for data up to Restricted / Sensitive High will be provided by EMA, although other agencies are free to contribute their own data dictionaries.)

Proposed Solution

ChatGPT can be fed instructions on the Guide to Right-Classification of Confidential and Below Government Systems. It can then enumerate each column to make a judgment call, explaining its rationale for each. It will also flag out any ambiguous columns so that humans can make a judgment call for such cases

Impact

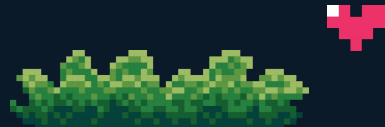
The tool may be used by the Whole of Government to advise non-technical staff on how to right-classify their data, and to automate workflows for data engineers to provide a first-cut classification to reduce the effort required to maintain data dictionaries.

Annotations:

- Copy this "Title" to be part of the "Problem Statement"
- Like the potential ideas to make it easier to retrieve the "Liked" ideas



Project Type B: Ideas from Your Agency or Work-related *(not already listed on LaunchPad)*



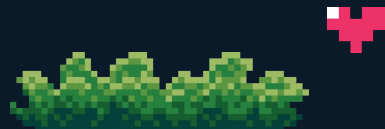
Steps for Ideas from Agency/Work-related

- **Step 1: Login to [LaunchPad \(https://launchpad.gov.sg/\)](https://launchpad.gov.sg/)**
- **Step 2: Submit your proposal**
 - Find “**AI Champions Bootcamp (WOG 2024)**” under “**Ideate**” tab, click on “**Participate now**”
 - Click on “**Submit Ideas**” from the left panel
 - Fill up the details about your proposal
 - Refer to a sample [here](#)
 - Note:
 - **Project Type Tag:** select “**agency**”
 - **Team Members:** MUST include yourself
 - **Data Classification:** The original or highest of data classification and sensitivity)
Note: For this prototype development later, down class to Restricted (Sensitive Normal) or lower.
E.g., using dummy data.
 - Click on **Submit button** at the bottom of the page
 - You can modify the info in your entry, as many times as possible, **before 30-SEP-2024 (12 pm)**

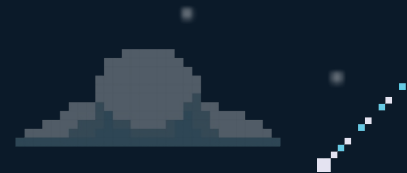
The screenshot shows the 'Ideathon' submission interface on the LaunchPad website. The left sidebar contains navigation links: 'Overview', 'View Ideas', and 'Submit Ideas' (highlighted in blue). The main content area is titled 'Submit your idea' and includes the following sections:

- Overview**
 - Title ***: A text input field.
- Problem Statement ***
 - Instructions: Describe the problem you are trying to solve; What is wrong with the current situation? (e.g. How does this problem affect your agency or involved individuals?); What is the magnitude of this problem? (e.g. number officers/citizens are affected, financial costs incurred, or productivity hours affected); At the end, sharpen it into a question.
- Proposed Solution ***
 - Instructions: How would you try to solve this problem?; How would you think Large Language Model(s) can be used to support your solution?; Are there any alternative solutions you have considered?
- Impact ***
 - Instructions: How would things be improved after the solution is implemented?; How often the solution will be used?; What is the estimated time-saving or financial-saving per year (from agency's or WOG perspective)?
- Project Sponsors & Users ***
 - Instructions: Is this project's impact big enough to get the attention of the senior management?; Who are the users of the LLM applications?
- Project Type Tag ***: A text input field.
- Team Members**
 - A dropdown menu for 'Email' with a '+ Add' button and '1/3 team members'.
 - A checkbox: 'I am seeking and/or open to having additional members join my team.'
- Data Classification & Sensitivity**
 - Instructions: Select the highest data classification and sensitivity for your idea.
 - Two dropdown menus: 'Data Classification' and 'Sensitivity'.
- Apply for LLM APIs and hosting environment that can host up to Restricted (Sensitive Normal)**
 - Instructions: I understand that this is subject to assessment of the project and there are conditions for usage the LLM APIs and hosting environment.
 - A checkbox labeled 'Yes'.

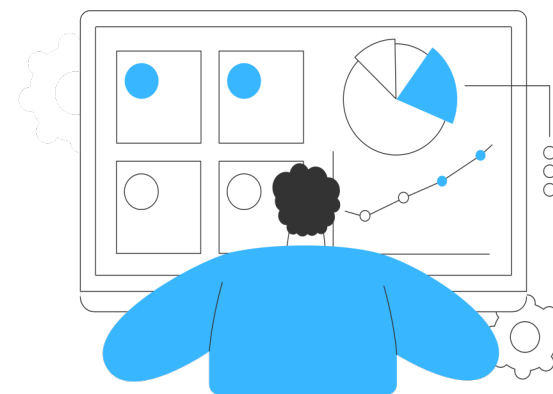
Project Type C: Capstone Assignment



Steps for Capstone Assignment (Project Type C)



- To submit the link to your hosted* **Proof-of-Concept (POC) app by 31 OCT 2024**
 - There is no need to submit any “ideas”/project on *LaunchPad* if you choose **Project Type C) – Capstone Assignment**, as everyone who chooses this option will work on the same problem statement
 - During the training, you will learn how to host your app on **Streamlit Community Cloud**, which is free to use*
 - The actual Capstone Assignment *will be released on 29th September 2024*. Submission of final prototype to Streamlit Community Cloud **is mandatory** in order to graduate.

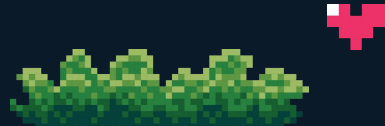


Note:

* Streamlit Community Cloud offers free usage-tier with some limitations, such as each account can only has one application hosted.

For more information about the limitations, please refer to [Status and limitations - Streamlit Docs](#)

Apply for access to LLM APIs and Hosting Environment



About the LLM APIs and Hosting Environment



- **What are these?**

- For teams who choose to create a proof-of-concept (POC) prototype based on Project Types **A) Ideas on LaunchPad** OR **B) Agency's Project**,

they can apply for access to the following free resources, when submitting "idea" on *LaunchPad*.

Apply for LLM APIs and hosting environment that can host up to Restricted (Sensitive Normal)

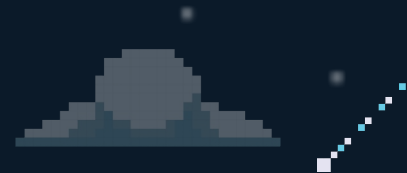
I understand that this is subject to assessment of the project and there are conditions for usage the LLM APIs and hosting environment

☐ Yes



- 1. **LLM APIs** to access models such as **Open AI's models, Claude's models, Mistral, Llama3**, and more, offered by **Launch!** team
 - These models can be used with data/info up to **Restricted (Sensitive Normal)**
 - **\$30 credits** to call & received responses from the various models
 - These models can be used through the "OpenAI" package and *helper functions* that we have been using in the training.
- 2. **Hosting Environment** for hosting the POC Prototype App:
 - **Option I – Streamlit on Snowflake**
 - **What is it?** – This is an environment hosted in Government Commercial Cloud (GCC), offered by **Launch!** team.
 - **Highest Data Classification:** Restricted (Sensitive Normal) - **To be Confirmed**
 - **Option II – Cstack Cloud**
 - **What is it?** - Cstack Cloud (A simplified sandbox from Cstack team for quick and easy deployment, hosted on GCC). To find out more about Cstack, click [here](#)
 - **Highest Data Classification:** Official (Closed)

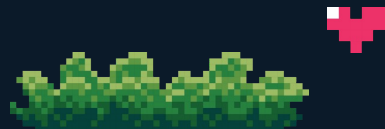
About the LLM APIs and Hosting Environment



- The access to the resources is granted based on application-basis.
 - Limited resources are available
 - **Email us (nick_tan@tech.gov.sg) as soon as your project idea is confirmed[#], (don't wait until the last day – 30 Sep)!!!**
 - Will be granted to teams who are eligible^{*}
 - The teams will be informed by the GovTech teams between late September and early October.
- Conditions:
 - The credits and the hosting environment **MUST only be used for the specified project**
 - The teams **MUST NOT change their project type and project idea**, after the access to the resources have been granted.
 - The resources will be provisioned to the teams until **31st January 2025**[^].
Project teams can use the hosted apps to conduct user study or presentation to their stakeholders.

- [#] The project idea must be submitted as an entry in [AI Champions Bootcamp \(WOG 2024\)](#) on LaunchPad with sufficient details for assessment.
- ^{*} The GovTech teams (from AI Champions Bootcamp and Launch!) will jointly assess the submitted proposal based on project's potential impact, feasibility, and other criteria.
- [^]Requests to extend use of resources will be considered on a case-by-case basis, based on factors such as progress, objectives etc.

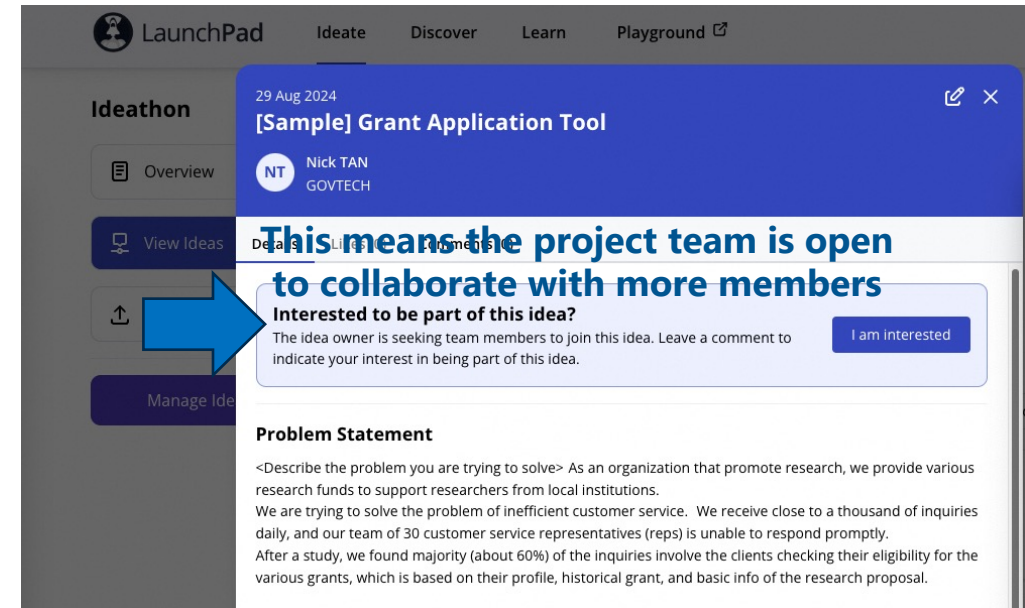
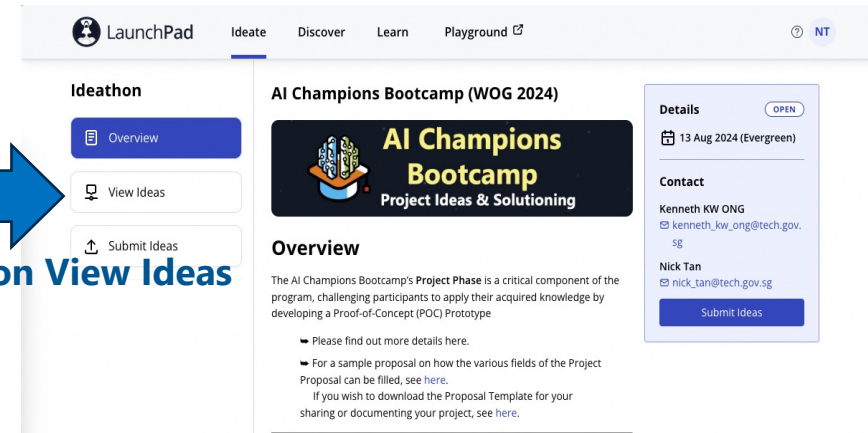
Join Forces across Agencies to Create Solutions



Collaborate with ABC Participants

- Explore the ideas submitted in *AI Champions Bootcamp (WOG 2024)* on LaunchPad
 - Are there projects that align with your idea or area of interest?*** Consider collaborating to create something exceptional!
- You are also encouraged to collaborate with participants from other agencies too! ***These cross-agency teams will stand a chance to receive a token from us!***
- You can contact owner of the project idea via email or leave a comment on LaunchPad, by clicking on the “I am interested” button.


Click on View Ideas



Any Questions?

Ask us at:

Topic: 🙋🙋 ? Q&A: Project Phase
on Canvas

