Hack The Future

Ideation Workshop, Jan 20 (11 am-12 pm)
Ideation Workshop

01 What is ideation?

02 How to ideate

03 Brainstorming activity 1 & example

04 Brainstorming activity 2
Ideation = coming up with an idea + planning
Why is ideation important?

- Learn how to plan
- Gives structure to project and brings those ideas to life
- Allows creative thinking
- Practice communicating ideas
  - Give and receive feedback
  - Allows for improvements
  - Collaboration
Ways to brainstorm ideas using the 4 T’s

- Start with one of the 4 approaches
- Build onto any of the next T’s
- Use all 4 as a foundation
Task/Problem

- **Identify** a problem
- Think of a **task** that can be accomplished
- **Address realistic problems** that can be solved given **time** and **resources** of hackathon
Tool

- Find the **best fit tool** based on the problem
- Discuss the **tools/programming languages** team members are familiar with
- Encourage **exploring new tools** and broadening skill sets
Time

- Start with a simple idea
- Is the workload manageable?
- Is the solution realistic?
- Make achievable goals
- Be mindful of the time given
Theme

- Gain an **understanding** of the theme
- **Draw connections** to the theme
  - From social, environmental, or technological aspects
- Make solutions **relevant** and **impactful**
Seek guidance and ask questions to mentors and event organizers

Stay open-minded and build on each others’ ideas

Align your ideas with the criteria of the hackathon prizes

Use mind maps to explore and connect your ideas to the theme, related concepts, and provided tools

Don’t be afraid to ask for help

Start with a simple problem by focusing on manageable problems (ensure project is realistic and achievable)

Brainstorming tips:

There is no right or wrong way to brainstorm ideas

Use the 4 T’s as a checklist to plan and stay organized

Listen to your team & be open to giving and receiving feedback

Alignment your ideas with the criteria of the hackathon prizes

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Brainstorming tips:
“What if” activity

1. What if students faced challenges in staying organized with their assignments and schedules?

2. What if teachers wanted to gamify the learning materials for elementary students studying mathematics?

Inspired by PIXAR’s: How to find a story idea - https://www.youtube.com/watch?v=p30eY7ADUMk&ab_channel=WriteforAnimationbyPietroSchito
Example

<table>
<thead>
<tr>
<th>What if...</th>
<th>Task/ Problem</th>
<th>Tool</th>
<th>Time</th>
<th>Theme</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>What if when my friends and I go out to eat, we can never decide what to eat, leading to indecision and wasted time?</td>
<td>Wasted time deciding what to eat with another person or with a group of people</td>
<td>Since I want to create a mobile app, I will use Thunkable</td>
<td>Problem is simple and realistic: program helps users decide and not waste time</td>
<td>App name: What to eat?</td>
<td>Help friends decide what to eat by creating a mobile app where each friend swipes left (don't want to eat) or right (would like to eat) on different cuisine categories and the program will find the best fit category for the group.</td>
</tr>
</tbody>
</table>
Now it’s your turn!

- In your breakout rooms, come up with a “What if”
- Use the 4 T’s as a checklist to create a plan
  - Answering the 4 T’s is planning
- Come up with a solution
- Hypothetical theme: “I for idea”
  - Incorporate the word “idea” or one of the letters from the word somewhere in your project
  - Eg.
    - App name uses idea in it
    - program that identifies breed of dog given its picture
Upcoming workshops

Click “Sign up” to go to the registration links for the workshops

**PYTHON BASICS**
Date: Jan 27, 2024
Time: 10:00AM - 12:00PM (PST)

**TURTLE GRAPHICS IN PYTHON**
Date: Feb 3, 2024
Time: 10:00AM - 12:00PM (PST)

**MOBILE APP DEV**
Date: Feb 10, 2024
Time: 10:00AM - 12:00PM (PST)

**INTRO TO HTML/ CSS**
Date: Feb 24, 2024
Time: 10:00AM - 12:00PM (PST)

**MACHINE LEARNING FOR KIDS**
Date: Mar 2, 2024
Time: 10:00AM - 11:00AM (PST)

**HOW TO PRESENT YOUR PROJECT**
Date: Mar 2, 2024
Time: 11:00AM - 12:00PM (PST)