



HEALTH BOOKLET

WHAT YOU CAN FIND HERE

Welcome to HackOMania 2025!

This health booklet has been curated for you to have all the essential information in one document.

For further enquiries about the **hackathon**, please feel free to approach any of our **organisers**. For further enquiries about the different **challenge statements**, please feel free to approach our **sponsors** at their sponsor booths!

Have fun and let's get hacking!

SCHEDULE

3

CHALLENGE STATEMENTS

4

JUDGING CRITERIA, JUDGES & MENTORS

15

HACKATHON & HOUSE RULES

18

SAFETY INFORMATION

20

SIDE QUESTS

21

SCHEDULE



DAY ONE

- | | |
|--------------|-------------------------------|
| 10:30 | Registration & Team Formation |
| 11:15 | Introduction |
| 11:30 | Rakuten Introduction |
| 11:45 | Safety Briefing |
| 12:00 | Keynote |
| 12:15 | Hackathon Briefing |
| 12:30 | Lunch |
| 13:00 | Hackathon Kick off! |
| 16:00 | ＊ Challenge lock-in |

DAY TWO

- | | |
|--------------|---------------------------------|
| 08:00 | Breakfast |
| 09:00 | Start Team Submission |
| 12:00 | ＊ Close Team Submission & Lunch |
| 13:30 | Judging |
| 16:30 | Deliberation |
| 17:00 | Prize giving & Phototaking |
| 17:30 | End of HackOMania 2025 |



CHALLENGE STATEMENTS



1. INTERLEDGER

Quitting Addiction Together



2. KITCHEN COPILOT

Let's reinvent the way food delights us to promote healthy living

3. GEEKSHACKING

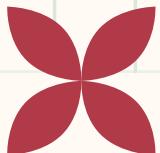
**Geek Connect:
Find Your Tribe IRL**





1. INTERLEDGER

Quitting Addiction Together



CHALLENGE

Create a **support network donation platform** where users contribute micro-donations via **Open Payments API** to recovery programs, peer mentors, or counseling services based on milestones reached. This platform could be gamified to encourage users. (e.g., \$0.10 earned per smoke-free day).

KEY CONSIDERATIONS

- **Financial Incentives for Recovery:** The platform should leverage micro-donations and milestone-based rewards to provide financial motivation for individuals battling addiction, reinforcing positive behavior change.
- **Transparency and Accountability:** Donations should be trackable and verifiable, ensuring funds are used effectively and fairly distributed. Features such as proof-of-progress verification and public impact reporting can build donor trust.
- **Gamification for Engagement:** Implementing progress tracking, streak-based bonuses, social challenges, and badges can make the recovery journey more interactive and rewarding, increasing user motivation.
- **Privacy and Security:** Addiction recovery is sensitive; the platform should protect user identity through anonymous transactions and data encryption while maintaining regulatory compliance.
- **Community and Support Network Integration:** The solution should enable peer mentoring, group incentives, and direct support from counselors or sponsors, fostering a supportive ecosystem for long-term recovery.

*Check out Interledger's
site for more information!*



CHALLENGE STATEMENTS



2. KITCHEN COPILOT

Let's reinvent the way food delights us to promote healthy living



CHALLENGE

We are looking for a group of enthusiasts to work with us to reinvent the way food delights us to promote healthy living. We have developed an application called Kitchen Copilot to help individuals prepare meals and recipes. We want to explore how we can use Kitchen Copilot more easily and be part of an individual's daily use.

KEY CONSIDERATIONS

- Simple and fun to use
- Even a child can use it to prepare meals
- Allow recipes and meal plans to be shared
- Promote healthy living.



*Join Kitchen Copilot's
Discord Channel!*

OPTIONS

Choose one of the options below for this challenge statement. More information on each option can be found in subsequent pages.

OPTION A. LEFTOVER RECIPE BUILDER

OPTION B. "SMART PANTRY BUDDY"

OPTION C. {SURPRISE US!}

CHALLENGE STATEMENTS



2. KITCHEN COPILOT

OPTION A. LEFTOVER RECIPE BUILDER

CORE IDEA

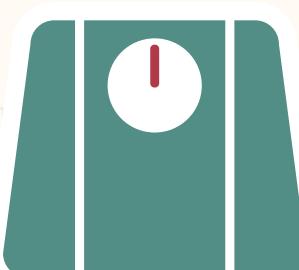
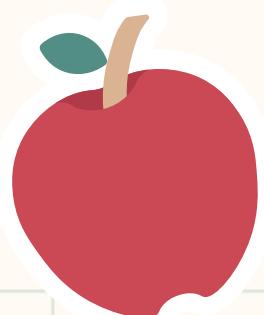
Take a picture of your leftovers, have AI identify the ingredients, and instantly get a creative and healthy recipe suggestion.

KEY OBJECTIVES

- **Multimodal AI:** Combine image recognition (to identify ingredients) with text generation (to create recipes).
- **User-Friendly Interface:** Make it simple to upload or snap a photo of leftovers.
- **Room for Creativity:** Decide how detailed the recipe gets, experiment with cooking styles, or add fun features.
- Each meal should be healthy, and consider different ways to improve the health of the people consuming the meal.
- Add a share to social channels option so that each recommended recipe can be shared with other people. Bonus points will be awarded if the user can make modifications to the recipe and give their own custom message to the social channel.

GOAL

Build something fun and functional that shows how AI can turn leftovers into inspiration. Let your creativity shine!



CHALLENGE STATEMENTS



2. KITCHEN COPILOT

OPTION A. LEFTOVER RECIPE BUILDER

SUGGESTED TECHNOLOGIES

- **Image-to-Text AI:** Recognise common ingredients from the uploaded image. (Use OpenAI, a vision API, or an open-source model.)
- **Recipe Generation (LLM):** Take the ingredient list and produce a coherent, step-by-step recipe.
- **Recipe API:** You can consider using a free recipe API like <https://www.themealdb.com/>.
- **Frontend Frameworks:** Web or mobile—React, Vue, Flutter, etc. Add a camera/upload button, a preview of detected ingredients, and a “Generate Recipe” button.
- **Backend Setup:** Simple REST endpoints or serverless functions to handle image input and calls to AI services. Authentication is optional.

POTENTIAL ENHANCEMENTS

- Add seasoning or cooking time suggestions.
- Offer multiple recipe styles (vegan, spicy, etc.).
- Let users edit ingredient lists before generating a recipe.
- Store favorite recipes if you choose to add authentication.
- Use a local LLM using Ollama

WHAT'S UP TO YOU

- Which models and APIs to use for image detection and recipe generation.
- How polished or experimental the UI should be.
- Whether to focus purely on functionality or add special features like ingredient swaps, saving recipes, or sharing options.





2. KITCHEN COPILOT

OPTION B. “SMART PANTRY BUDDY”

CORE IDEA

Scan or input what's currently in your pantry or fridge, ask the user for their preferences (e.g. their diet, health issues, and favorite or disliked foods, or a particular dietary plan), and let AI suggest weekly meal plans with deserts, complete with recipes and a shopping list for missing items.

KEY OBJECTIVES

- **Ingredient Inventory:** Use a quick input method—maybe scanning barcodes, uploading a grocery receipt image, or manually typing in what you have.
- **Meal Planning AI:** Use a language model to suggest a variety of recipes for the week, ensuring they use up what's on hand and add minimal extra ingredients.
- **Adaptability:** Let users specify dietary preferences (vegan, gluten-free, etc.), cuisines, or difficulty level.
- **Health Conscious:** Each meal should be healthy and consider different ways to improve the health of the people consuming the meal. Help the people who are enjoying the meal to be more aware of their health and what the ingredients help them with.
- **Social Engagement:** Add a share to social channels option so that each recommended recipe can be shared with other people. Bonus points will be awarded if the user can make modifications to the recipe and give their own custom message to the social channel.

GOAL

Demonstrate how AI can turn a random pantry inventory into a cohesive, time-saving, and healthy meal plan that reduces food waste and streamlines shopping.

CHALLENGE STATEMENTS



2. KITCHEN COPILOT

OPTION B. “SMART PANTRY BUDDY”

ADAPTABILITY PREFERENCES IDEAS

Incorporate whichever you would like to. Below are some ideas.

- **Allergies:** Avoid nuts and gluten.
- **Preferences:** Don't like mushrooms. Love tomatoes.
- **Workout routine:** Trying to lose weight, or trying to build muscle.
- **Meals:** Interested in just dinners, or all meals, or lunches for weekdays.
- **Effort:** Quick meals (e.g. busy executive). Delight your taste buds..
- **Sentiment:** “I'm feeling sunny today”. Let users enter how they are feeling and what interests them, and it will build a meal plan based on that.

SUGGESTED TECHNOLOGIES

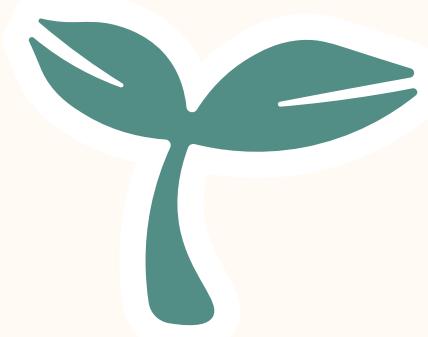
- **Image/Document Scanning:** OCR API or LLM to extract text from a receipt or packaging labels (e.g. OpenAI or Azure AI Document Intelligence).
- **LLM for Planning:** Feed the ingredient list plus constraints into an LLM to generate a structured weekly meal plan (e.g., Monday's breakfast, lunch, dinner).
- **Frontend Flexibility:** Choose a web or mobile frontend with a simple interface to add ingredients, view the meal plan, and toggle recipe options.
- **Recipe API:** You can consider using a free recipe API like <https://www.themealdb.com/>.

POTENTIAL ENHANCEMENTS

- Suggest smart grocery lists for the missing items.
- Use a local LLM using Ollama

WHAT'S UP TO YOU

- Which OCR/vision solution to use.
- Which LLM or recipe data source to guide meal planning.
- How fancy the UI should be (a simple list or a beautiful interactive calendar).



CHALLENGE STATEMENTS



2. KITCHEN COPILOT

OPTION C. {SURPRISE US!}



CORE IDEA

Explore the Kitchen Copilot app and note anything you believe should be added to the app. Build a proof of concept that will fill in that gap.

KEY OBJECTIVES

- **Build your own objectives.** Use the other project briefs for ideas.
- **Health Conscious:** What you develop must show a desire to enrich people's lives with healthy choices.
- **Social engagement:** You must add an element of social, for example, sharing something interesting to a social channel.

GOAL

Showcase how AI or other technologies can enrich the existing Kitchen Copilot app and further delight the user.

IDEAS

- Gamification (engage, share, build community)
- Calorie counter (for your meals, or your week)
- Personalization
- Improve your photos (user images can be enriched to be more appealing)

SUGGESTED TECHNOLOGIES

- You can use your favorite technology. See the other project briefs for ideas.

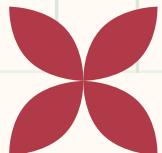
WHAT'S UP TO YOU

- Which LLM or language processing tool to use.
- How extensive or minimal the UI design and customization options should be.



3. GEEKSHACKING

Geek Connect: Find Your Tribe IRL



CHALLENGE

GeeksHacking is a tech community dedicated to giving back, growing as individuals, and embracing our geek identity. This challenge invites participants to build a platform that fosters real-world connections within the geek community.

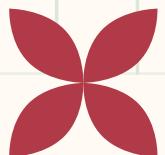
KEY CONSIDERATIONS

- **Community Focus:** How might your platform facilitate meaningful connections and interactions between "geeks" with shared interests? Think beyond just matching profiles – how can you encourage real-world engagement and a sense of belonging?
- **Interest-Based Discovery:** What innovative ways can you enable users to discover others who share their passions? Consider how to go beyond basic categories and explore more nuanced matching or filtering mechanisms.
- **Event Integration:** How can your platform seamlessly connect users with relevant events and meetups happening in their local area? Think about creative ways to integrate event discovery and participation.
- **"Geeky" Identity:** How can you infuse the platform with a "geeky" spirit and make it a welcoming space for individuals who embrace their geek identity?
- **Technical Exploration:** Feel free to leverage any technology stack that excites you. Explore new frameworks, APIs, or libraries that can help you bring your vision to life.
- **Social Impact:** Think about how your platform can contribute to a more connected and inclusive geek community. How can it help combat social isolation and foster a sense of belonging?



3. GEEKSHACKING

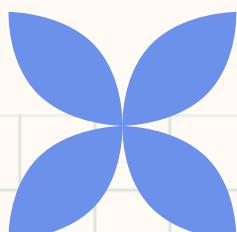
Geek Connect: Find Your Tribe IRL



PAIN POINTS

FOR INDIVIDUALS

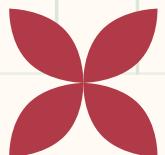
- **Difficulty Finding "Their People":** Geeks often have niche interests, making it hard to find others locally who share those passions. Existing social platforms might not cater to these specific interests, leading to feelings of isolation. GeeksHacking itself may have members with diverse interests, and connecting them within the community can be challenging.
- **Lack of Accessible Local Events:** Discovering relevant geeky events in a specific geographic area can be time-consuming. Information might be scattered across different platforms, making it difficult to get a comprehensive overview of what's happening.
- **Social Anxiety/Introversion:** Many geeks are introverted or socially anxious, making it difficult to initiate connections or attend events. A platform that facilitates easier introductions and provides a sense of community could be beneficial.
- **Limited Opportunities for Collaboration:** Connecting with others for project collaborations or skill-sharing can be challenging. A platform that facilitates this could unlock new opportunities for growth and learning.
- **Desire for In-Person Interaction:** While online communities are valuable, many geeks crave real-world connections and face-to-face interactions.





3. GEEKSHACKING

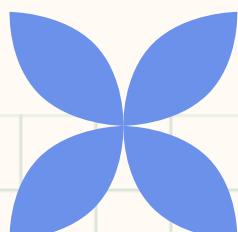
Geek Connect: Find Your Tribe IRL



PAIN POINTS

FOR GEEKSHACKING

- **Maintaining Community Engagement:** Keeping members engaged and fostering a strong sense of community can be an ongoing effort. A platform that facilitates real-world connections could supplement existing online channels and strengthen community bonds.
- **Expanding Reach:** Attracting new members and expanding the reach of GeeksHacking's community can be challenging. A platform that showcases local events and activities could serve as a valuable outreach tool.
- **Facilitating Project Collaboration:** Connecting members with complementary skills for project collaborations can be difficult. A platform that allows users to showcase their skills and interests could streamline this process.
- **Measuring Community Impact:** Understanding the impact of GeeksHacking's initiatives and how well it's serving its community can be challenging. A platform that tracks user interactions and event participation could provide valuable data.
- **Resource Management for Events:** Organising and promoting events can be resource-intensive. A platform that streamlines event management and promotion could free up resources for other initiatives.



JUDGING CRITERIA

SCORING SYSTEM

- ◆ Each criterion is scored on a scale of 1-10.
- ◆ Judges assign scores based on weightage.

INNOVATION & CREATIVITY

20%

- ◆ How original or creative is the solution?
- ◆ Does it introduce new ideas, concepts or approaches?

USER EXPERIENCE & IMPACT

20%

- ◆ Does it address a key problem and promote healthy living?
- ◆ Can it scale or be adapted for real-world use?
- ◆ Is it intuitive and user-centered?

TECHNICAL POLISH

40%

- ◆ How complete is the hack?
- ◆ Is the solution technically sound and functional?
- ◆ Can it demonstrate seamlessly?

PRESENTATION & PITCH

20%

- ◆ Was the idea clearly and persuasively communicated?
- ◆ Did the team effectively convey their solution's value?



JUDGES



MEET YOUR JUDGES



ALEX LAKATOS

CTO



SCOTT FORSYTH

CTO



KOH CHOONG YONG

Head of Product Engineering



MENTORS



MEET YOUR MENTORS

Mentors are available to help teams refine their ideas! Please register for mentoring slots by scanning the QR code released on Day One.



ALEX LAKATOS
CTO



IOANA CHIOREAN
Engineering Manager



PERWYL LIU
Andriod, iOS



HUI JING CHEN
COO



STELLA S.
Senior Frontend Dev.



CAITLIN CAI
Head of Product



PUSPAK PATRO
CEO



SCOTT FORSYTH
CTO



BENIAMIN MUNTEANU
Senior Software Engineer



DRAGOS PALADE
Software Engineer



BAJI BABU YERRAGUNTIA
Microservice, Cloud, Devops



BOGDAN SANDU
Software Engineer

HACKATHON RULES



TEAM FORMATION

Participants must form teams of **3 to 5 members**. Each team must have at least **one representative present** throughout the event.

OWNERSHIP OF WORK

Teams retain the intellectual property rights to the projects they create during the hackathon.



USE OF TOOLS

All teams are required to use **GitHub** and commit their work to a **public** repository for transparency and evaluation.

WORK INTEGRITY

All coding and development must be completed **during the hackathon**. Pre-coded work or previously built projects are strictly prohibited.



PROJECT PRESENTATION

Each team will have **5 minutes** to pitch their project, followed by a brief **Q&A session** with judges (if applicable).

CODE OF CONDUCT

Participants are expected to **be kind, respectful, and play fair**. Any form of harassment, discrimination, or unsporting behaviour may result in immediate disqualification.



SUBMISSION DEADLINE

All projects **must** be submitted by the specified deadline. Late submissions will not be considered for judging.

HOUSE RULES



DO'S

- ✿ **Keep your participant lanyards on at all times.**
- ✿ **Maintain Cleanliness.** Keep the venue tidy and dispose of trash in the appropriate bins.
- ✿ **Use Designated Areas.** Stay within the areas assigned for your use and avoid restricted areas.
- ✿ **Respect Privacy.** Do not access or interfere with employees' desks, computers, or personal belongings.
- ✿ **Report Issues.** Inform the GeeksHacking committee of any issues or damages immediately.
- ✿ **Use Equipment Responsibly.** Handle office equipment and facilities with care and report any malfunctions.

DONT'S

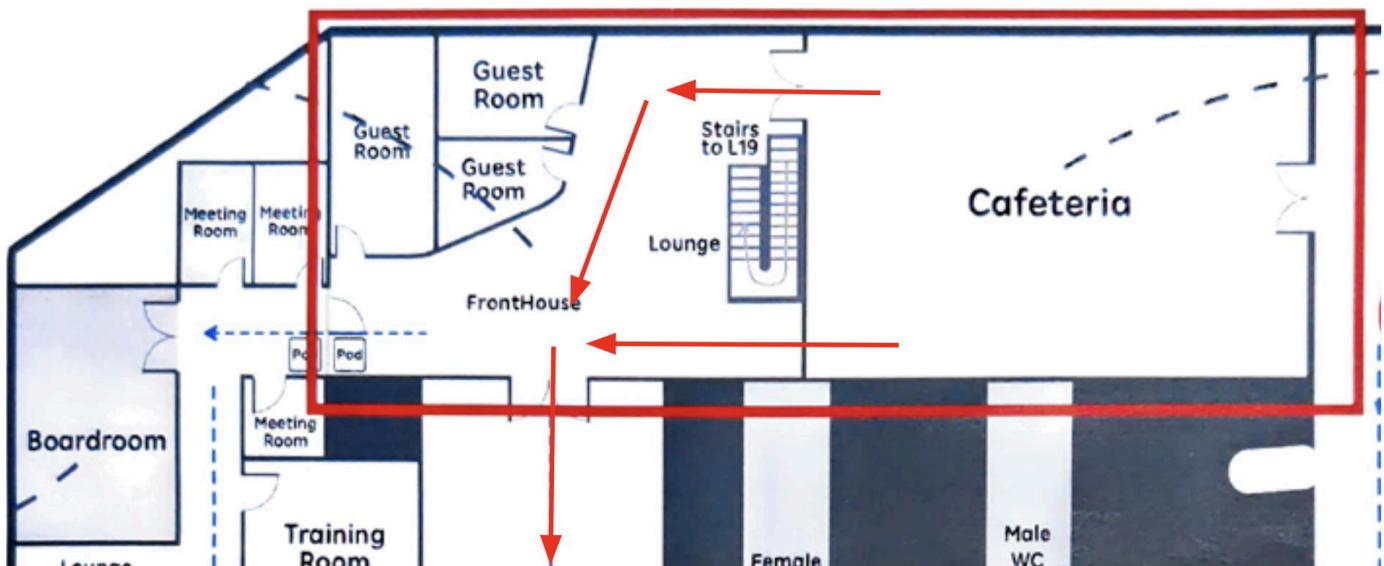
- ✖ **No Unauthorised Access.** Do not enter areas that are off-limits or restricted.
- ✖ **No Tampering** with Equipment and Rakuten Asia office facilities.
- ✖ **No Smoking.** Smoking is strictly prohibited within the office premises.
- ✖ Please **do not use the vending machines** and **do not take the snacks in the cafeteria** for personal consumption.

SAFETY INFORMATION



VENUE SAFETY

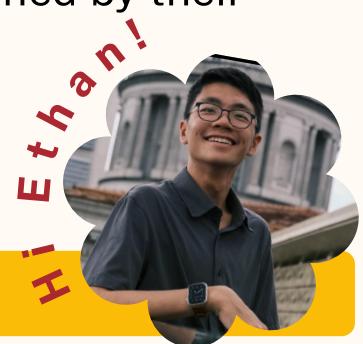
Please familiarise yourself with the exits. The following map shows the **fire escape route** from the main hall (Cafeteria).



EMERGENCY CONTACTS

In case of any emergency, please approach any of the organisers stationed around the venue. Organisers can be identified by their lanyards.

The first aider is **Ethan Chew**,
@ethancheww (telegram)



PERSONAL SAFETY & HEALTH

Take care of yourself and your belongings. Stay hydrated, take regular breaks, and let an organiser know if you're feeling unwell!

Use equipment and power responsibly. Avoid overloading outlets and report any damaged equipment or issues immediately.

SIDE QUESTS



WHAT ARE SIDE QUESTS?

HackOMania 2025 is back and bigger than ever! Beyond the hacking, we've got exciting activities where teams can **join forces, have a blast**, and snag some **awesome prizes**. Let the games begin!

SCAVENGER HUNT



Submit your answers here!

GOAL

Find 7 letters to form a secret codeword 

HOW

The letters are hidden around the venue and can be found by **spotting the actual letters** themselves.

WHEN

Submit the complete codeword to us by **Day 2, 12 PM**.

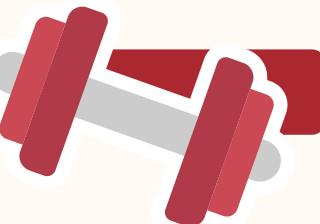
WHERE

Within the **authorised zone** of the venue. Please do not enter unauthorised zones.

PRIZE

Two lucky teams who have submitted their answers will be **drawn** for a special prize!

DETOX ROOM



GOAL

Have fun 

HOW

There are **mini sports** and **board games** available for teams to take a break from hacking.

WHEN

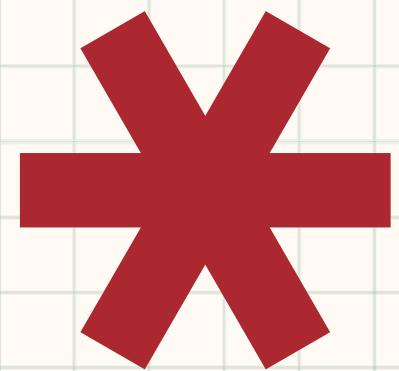
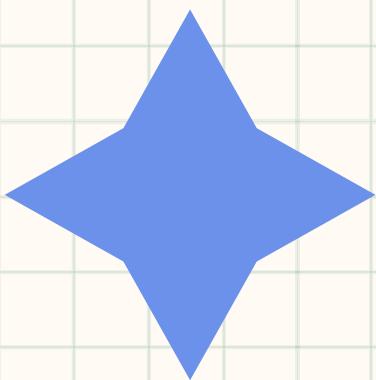
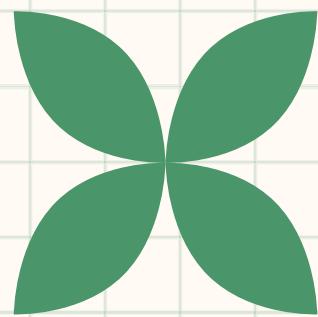
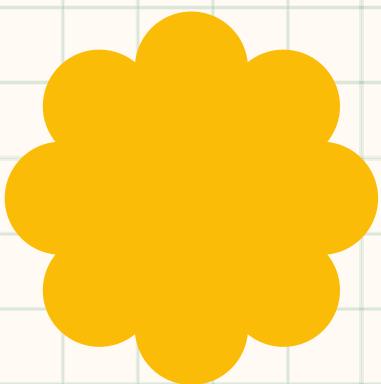
These activities are available on **Day 1, 4.30pm to 7pm**.

WHERE

One of the meeting rooms.

PRIZE

The **top 2 participants** for each mini sport will be given a special prize!



HACK

MANIA

2025

ORGANISED
BY



GeeksHacking