DESS NANOLEAF HACKATHON 2022

Hosted by

Introductions

Welcome to the 2022 DESS Nanoleaf Hackathon!

As the first ever Nanoleaf hackathon at the University of Calgary, we are pleased to present to you a hackathon like no other. One that not only involves programming, but it will be a hackathon for which you can express your creative side painting on a canvas using code. Please ensure you read every resource provided in this document and follow instructions highlighted in the rules and logistic section of this document.

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Hackathon Timeline

Friday September 23 2022

5:00 – 5:10 PM – Teams check-in

5:10 – 5:20 PM – Opening Ceremony and Hackathon summary

5:20 – 6:30 PM – Nanoleaf Workshop

6:30 PM – 7:30 PM – Dinner/Work

7:30 PM – 10:00 PM – Hackathon work period

Saturday September 24 2022

9:00 – 9:30 AM - Nanoleaf wall instructional session

9:30 AM – 12:00 PM – Hackathon work period

12:00 – 1:00 PM – Lunch/Work

1:00 – 3:00 PM - Hackathon work period

3:00 PM – Nanoleaf submission deadline

3:00 – 4:00 PM – Hackathon showcase

4:00 – 4:30 PM – Judging

4:30 – 5:00 PM – Closing Ceremony (Winner Announcement)

Note* Please note that dinner and lunch will not be provided

Hackathon Rules and Logistics

Rules to follow

1. **Participants of this hackathon will not need to take the Makerspace General Access Training to access ICT 216**

2. **Food and drinks will be allowed for this event only, please clean up any garbage when leaving the workroom**

3. **Visualization created on the Nanoleaf board must not contain any offensive, racist, abusive, or inappropriate content**

4. **BE RESPECTFUL! We strive to promote a message of Gracious Professionalism. Harassment including racist, sexist, and/or any remarks intended to make others feel excluded are not acceptable, and you will be asked to leave if this is to happen.**

5. **Have fun and be creative with your designs!** 😊

Logistics

Location: ICT 216 – Zetta workroom on second floor

Nanoleaf Resource:
For this hackathon, participants will be given access to the Nanoleaf Wall.

To be more prepared for access and control of the Nanoleaf Wall, **please read the following pages in this link provided from Makerspace:**
https://schulich.libguides.com/c.php?g=726111&p=5203146

Hackathon Communication:
All communication and announcements will be provided through Discord.

Nanoleaf Access:
Each team will need to bring a USB Storage stick
For Friday September 23rd, teams will have access to only 1 row of each Nanoleaf board so that each team can familiarize programming and connecting to the panels.

For Saturday September 24th, teams will use their USB Storage stick to upload their script to the Rasberry Pi controlling the entire wall in 10 minute rotating increments**.**

Judging Rubric

Criteria	Poor (1 point)	Adequate (3 points)	Exceeding (5 points)
Visual development	Sketchy, loosely focused information forces user to make inferences. Visual inspiration is unclear and non-descriptive	It is easy to see where the presentation is head, though more expansion is needed to complete how the visual was thought of	The presentation clearly outlines the visual. Enhanced details that build a story on how the visual was created
Data driven visual	The visual is not driven by any data source or database	The visual is connected to a simple data source or database to drive visuals	The visual is connected to multiple data sources or databases to drive visuals
Visual Appeal	Demonstrate poor visuals or no visuals at all	Demonstrate fair visual layout and design is static	Demonstrate exceptional visuals that are dynamic and repeating
Original Code development	The team cannot accurately answer questions about the code and how it creates the visual	The team can accurately answer a few questions about the code	The team can accurately answer several questions about the developed code and how it relates to the visual

Submission Deadline
Participants will have to submit their program script by 3:00 PM to a provided Google Drive Link.

Nanoleaf Showcase
From 3:00 – 4:00 PM, one member of the team will upload their script using a USB storage device on the Rasberry Pi controlling the Nanoleaf wall. Each team will have 8 minutes to present on their visual creation and will follow up with 2 minutes of Q/A.

Nanoleaf Hackathon Awards
There will be three awards for the Hackathon including, People's Choice, Best use of Data and Most Recognizable. Winners will have their visuals showcased for the public.

Questions?

For any questions, feel free to ask on the Discord or in-person.