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#HackWithInfy

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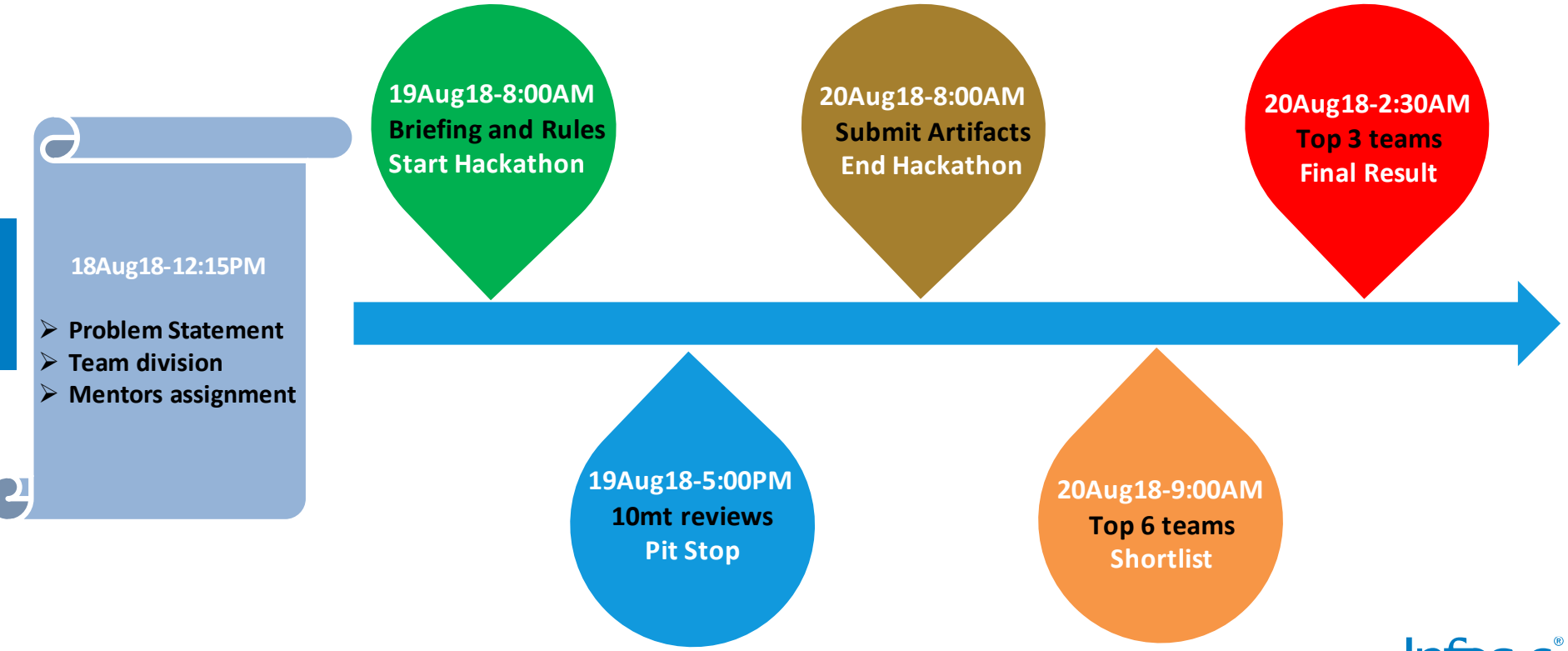
Hackathon Rules

- Fresh code
- Code Quality and Review
- Team Size & Mentor
- DEMO your hack – No slide deck and video, demo your application. Don’t be scared if you did not finish. It is okay as you tried your best!
- Enjoy the Experience
- No code copy from internet sources
- Work as an inclusive team and utilize everybody’s skills

Hackathon Flow



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Judging Criteria

Criteria	Description	Weight
Creativity	How creative or innovative is the idea within the given challenge? Has this been done before, or is this something completely new and original idea (architecture, design and implementation)?	20%
Innovative Technology & Quality	How you have utilized the existing technologies to their solution and quality of code?	15%
User experience and functionality	Is the overall user experience intuitive ? Does the flow make sense?	15%
Simplicity	How elegantly does it solve the problem (smart vs harder)?	10%
Feasibility/Impact/Reuse/ Extensibility / Modularity	Does your solution work? Can it be implemented at scale? Can it be extend to other similar problem statements?	20%
Progress and Execution	How much accomplish in a day?	10%
Demo & Presentation	How well did the team present?	10%

🏆 **Gold Standard – Excels in all categories, is innovative & unique**

🏆 **Silver Standard – Excels in few categories, is innovative & relatively good**

🏆 **Bronze Standard – Excels in few categories and is relatively good**

Problem # 1- Illegal Hoarding (Billboard)

Municipal Corporation faces two challenges with respect to Illegal Hoardings

- The Billboards are installed without paying the corporation fees
- The billboard advertisements are changed without permission. For example company X paid for product ‘a’, the company Y changed the advertisement to product b of company Y. This often results in financial losses.

Design an App and System to reduce this by Crowd Sourcing. For example citizens can take a picture of the hoarding and send to centralized municipal system which will background check (Automatically) whether the billboard is legal or not and whether the advertisement is legal or not. Please note the advertainment keeps on changing over a period of time.

Suggested Technologies: Android/iOS App and Web Application to manage the backend information. Image processing and simple check for automation which can even be in batch.

Dataset: Search online for Billboard “Ponds”, billboard “Samsung”, billboard X (where X is company name)

Problem # 2- Enrich

Develop an augmented reality app that can be used to provide additional information, insights and user/expert reviews overlaid on top of a product image. The user will scan the QR code of a product, then app should recognize the product and overlay all the information regarding the product and also provide additional information for the user to make informed choices. For e.g. it could be to do allergy checks, compatibility information, any additional product information not available on the product packaging.

Suggested Technologies: Unity3D for Mobile App or Google AR Framework. The backend can be simple REST API.

Dataset: Use dataset of a food product from online. Have at least 5 different types of items. Have ability to add metadata.

Problem # 3-SwachhTrack

A Garbage Van will be assigned to particular locality by Municipal authority. The authority defines the path for that locality to be followed by the van and fixes the daily schedule. Design and Implement an App that can:

- Check whether the Garbage Van moves in the locality and follows the path. Apply fine if the Van does not follow the path or time.
- Inform locality folks if the Garbage Van is near to their location by using GeoFencing /GPS. The information will be on their mobile phone.
- The Municipal Corporation can change the path or driver or vehicle on every day or weekly basis. Please have provision for that.

Suggested Technologies: Android /iOS for Mobile App (Native/Hybrid), Web Application to Manage the Vehicle and define path. You can use either Google Map, Bing Map or OpenStreet Map.

Dataset: You can record the path in Infosys campus as it becomes easier to simulate the same.

THANK YOU

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