

**ROUND 1**



**MANIPAL HACKATHON 22**

**ENSEMBLING EMINENCE**

**ABSTRACT & GUIDELINES**

# THE ABSTRACT



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## The abstract must contain:

### Theoretical explanation of the problem and the different features of the project:

- Title and ID number of the problem statement chosen.
- Participants must mention the set of issues identified according to the chosen problem statement. Judgment of how well the participants can explain their idea and how well they understand the subject matter will be done. They must elaborate on the current scenario surrounding the issues that they have found and what needs to be improved.
- Methodology for the problem.
- Specify a brief description of what the solution intends to do for tackling the issues/ problems identified. Participants must list the features they want to build pointwise with a clear explanation.

### Background study:

- It includes a review of the area being researched, current information surrounding the problem, previous studies and any relevant history on the issue.

### Use of Technology:

- Specify opportunities and obstacles of existing technology for the issues identified. Identify technological ideas that have the potential to power both transforming and optimizing initiatives that can be used for future purposes.
- Participants must specify how their technological solution improves society, is an improvement compared to existing technology and makes a positive impact on the modern world.

# PPT/VIDEO SUBMISSION



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The **Video** should be **3-5 minutes** long and enables the participant to clearly explain their presentation through **AV formatting**. The **PPT** should be **10 - 15 slides**.

Submissions exceeding the limit will be penalized accordingly.

The PPT / Video submission must contain:

## **Proof of Concept Document (POC):**

- Detailed flowchart of each module and each aspect as well as the interlinking of features by specific APIs (If the team is using an external API please make sure to mention a link to the API).
- A detailed explanation of the algorithm being used to provide the prescribed solution.
- Include UI frames/ UX designs that will be made. The team must keep in mind that the frames must be user-friendly.
- A step-by-step explanation of the solution to the problem (from a technical perspective mentions the different technologies and software used by the team and how they are being incorporated. The video submission must include an explanation of the idea and which technologies/software is being used. This is aimed at testing the participants ' clarity and knowledge about the project and its technical dependencies.
- A list of added features, 2 features/modules (which are left to the participant's discretion) for each problem statement, and the proof of concept of how this can be incorporated, have to be worked on. A scenario for the same must be given where it is left to the participant to think about how they can make the most of this scenario and how these modules can be implemented. There would be added points for these and it is optional for the participants to do the same.

# PPT/VIDEO SUBMISSION



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## Software detailing:

- Type of software (Web or Application)
- Software Platform
- Software Design Specifications
- Design considerations
- Functional Requirements
- Software/Hardware dependencies
- Design Constraints
- Software Workflow Diagram
- Use Case Diagram
- Technology Stack & Frameworks you will be using
- Development Platforms are planned to be used
- Specify If you plan to reuse existing software components or libraries
- Mention any licensing/subscription costs incurred for utilizing third-party services
- Specify if you plan to use an IOT enabled device for IOT statements

## Structure of PPT:

- Introduction
- Flow Chart/Use Case (Should clearly state step-by-step implementation of each stage of the solution. Explanation of each feature and its implementation)
- Links to each API being used or planned on being used
- UI/UX frames
- Explanation of the algorithm being used (if any)
- Clearly state the technologies used at each stage and how they will be integrated into the solution
- The real-life impact of your solution
- Novelty (What makes your product stand out)
- References



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