

2nd INAE Youth Conclave IIT Kharagpur Pre-Conclave : 23rd - 25th March 2018 Finals: 10th -12th August 2018



"Submission Guidelines for the teams selected for the final event to be held in INAE Youth Conclave during 10th-12th August, 2018 at IIT, Kharagpur"

The team should not deviate from their stated goals and objectives as submitted and presented during the pre-conclave meet. Any major deviation will lead to disqualification of the team.

Submission Deadline: 20th July 2018

Statement

India is the second most populous country in the world. The healthcare structure in the country is overburdened by this increasing population. Billions of patients struggle because they do not get proper access to healthcare. Even those with proper access often face bitter experiences. The Indian government spends only about 30% of the country's total healthcare budget. This is just a fraction of what the US and the UK spend every year. One way to solve this problem is to address the infrastructure issue by standardizing diagnostic procedures, and developing streamlined health IT systems. We need apps for finding doctors and getting treatments for common health problems.

- The students should make an accessible app for all citizens so that they can locate and make an appointment with the nearest doctor available.
- The app should be also able to maintain the patient records.
- It should also contain information about basic medicine and first aid solutions for different problems.
- The issue of data security must be addressed.
- The user interface should be convenient and simple to work with.

A PDF of maximum 16 pages including the 1st page (Font size - 12, Font – Arial, double spacing) with clear description of the system. The complete code has to be provided along with the PDF in a zip file. The 1st page of the PDF should contain your team name, institute name, contact no., team members' names along with their branch and year of study. Any test data used should also be sent in the zip file.

The final software with codes and documentation should be submitted with operational manual and a README file for installation. A set of example test data with their description and uses may also be provided by the team.





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The final report should include the following.

- Objective
- State of the art (Short overview of similar systems)
- Scope of your work (limitations and applicability to be summarized)
- Software architecture, functional description of modules, and algorithms for computation.
- Division of computation between central and local servers, if applicable
- Use case diagrams.
- Security features incorporated.
- Medical standards adhered.
- A table summarizing features and functionalities of the system, and the names of the modules incorporating them.
- Report of testing with test data (to be designed by you)

Rules & Regulations

- 1. A maximum of 5 participants are allowed in a team. Team members can be from different years of study but all members should be from the same institute.
- 2. The teams are required to demonstrate their app.
- 3. Penalty for crossing the report limits:
 - If it exceeds less than or equal to one Page above the limit then 10% of the report marks will be deducted.
 - If it exceeds more than 1 page above the limit but less than or equal to 2 pages then 20% of the report marks will be deducted. If it exceeds 2 pages (>2 pages) above the limit then 100% marks will be deducted.
- 4. Teams can be disqualified in case any form of plagiarism is found.
- 5. The team members may be asked questions (both technical and non-technical) during the presentation.





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Judging Criteria

The app submitted by each team would be judged essentially on the basis of user friendliness, compliance to the features and functionalities as claimed in the report, correctness of computation and novelty, usefulness in addressing common health problems, and the technical content and clarity of the report.

Total points = 100. The Distribution is as follows:

- 1) User Friendliness and ease of operation : 20
- 2) Compliance to the features and functionalities : 20
- 3) Correctness of computation and novelty : 20
- 4) Usefulness in addressing common health problems : 20
- 5) The technical content and clarity of the report: 20

