



SCHEDULE FOR HACKATHON

1. The problem statements will be released on 11th February at 3 pm after the event briefing round at noon.
2. Every team must create an empty git repository and add all its team members as collaborators along with E-Cell [**ecellnitb**]. All team members can only push their code to this repository.
3. Teams who have doubts about the problem statements can attend the post-event brief meeting to clarify their doubts about the problem statement. The meeting will commence at 3 pm.
4. At 5 pm, team leads have to submit the problem statement they selected on a google form circulated.
5. After every 12 hours, a new google form will be circulated in which the team members (anyone) can post the update of their project.
6. Additional 2 hours will be provided to the teams to record the working model of the prototype, explaining all the features in it.
7. After 48 hours, a google form will be circulated. This form will be filled by team leaders who have completed the prototype and are ready for pitching in front of our judges and mentors.
8. Out of all the submissions, 30 teams (subject to change) will be given a chance to pitch in front of the judges and mentors, i.e., 14 and 15 February 12 pm to 5 pm IST.
9. The final result will be declared on 17th February.





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RULES FOR HACKATHON

1. The problem statements will be released on 11th February at 3:00 pm after the event briefing round at noon.
2. Every team must create an empty git repository and add all its team members as collaborators along with E-Cell [[ecellnitb](http://ecellnitb.com)]. All team members can only push their code to this repository.
3. The team must choose anyone's problem statement from the given ones in the document and build a prototype.
4. Teams can take help from the internet/previous project if they are stuck, but they must use their creativity and skills to develop a unique solution.
5. Teams can use any framework or library at their convenience.
6. Plagiarism is strictly prohibited; the solution of all teams will be strictly monitored, and if found to be copied from other teams or a complete solution from the internet, they will be immediately disqualified.
7. After completing the project, it must be live (it must be hosted on the internet, or you can use GitHub Pages or Heroku or any free cloud services at your convenience).
8. Teams must update their project status every 12 hrs in a google form. If they fail to do so, they will be contacted by Event Coordinators. If any team remains inactive for more than 12 hrs, the team will be disqualified/eliminated.
9. Teams must stop hacking once the time is up. If you find a bug that breaks your application during demoing your hack and the fix is only a few lines of code, it's okay to fix that. Making significant changes or adding new features is not allowed.
10. Teams can be disqualified from the competition at the organizers' discretion. Reasons might include but are not limited to breaking the Competition Rules, breaking the Code of Conduct, or other unsporting behaviour.
11. Every team can only ask for a mentor's guidance 3 times every 6 hours. This number will not be carry-forward to the next 6 hours.
12. After the hacking round, every team must record a video of the working prototype and upload it on the google form provided. The team will be given additional 2 hours for the task mentioned above apart from the 48 hours of the hackathon. The video has a maximum duration limit of 3 minutes.
13. Out of the total submissions, only 30 teams (subject to change) with the best prototypes will be allowed to pitch on 14th and 15th February.
14. Project violating the code of conduct will result in instant disqualification.



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PROBLEM STATEMENTS

STATEMENT 1 – DEV TOOLS

AUTOMATED EMPLOYEE APPRAISAL SYSTEM

It's a known fact that corporate laptops are under full surveillance of the companies. The company can access almost all data on that device like browser history, installed software and programs, screen uptime, sleep cycles of the device, and many more. Therefore, these data can be very useful in creating a brief scorecard of an employee monitoring his overall performance all around the year.

The task for our hackers is to create a prototype to determine the scores based on data acquired from an employee's device so that the company can award appraisals based on these scores.

Features:

- Consider all edge cases while developing the platform.
- Collect all important features for calculating the scorecard of the employee.
- Develop a prototype to show the scorecard to employees.
- Scoring an employee should be precise enough.

STATEMENT 2 – COMPUTER VISION

AUTOMATIC LOGGING AND TRACKING SYSTEM

Consider an office where not all the employees are allowed in all the rooms of the office due to some security reasons. Company have installed CCTV cameras in all the rooms in the office. The company wants to keep a track of all the rooms so that employee don't enter in the restricted room. For example – Director is allowed in all the rooms of the office but no employee is not allowed in any room. So, we want to create a software that continuously tracks all the people of all the rooms of the office and make sure no rules are violated related to the entry of employees in the rooms.

So, create a prototype which solves the issue of the company in an efficient way.

Features:

- To create and maintain a database of employees and which room they are entering in office.
- Working with unclear video footage.
- Identification of employee allowed in room and employee not allowed in the room.
- Raise warnings when the rule mentioned above is broken.
- Find whether a person is in the office or not available in real-time and locate that person in the office.





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STATEMENT 3 – FINTECH

AUCTION WEBSITE

Auctioning is one of the most famous/prominent activities in this world, but due to more virtual events, not all auctions can occur offline; hence, there is a need to make auctions available virtually, which will be more user-friendly and easier to use. So, in context of the above issue mentioned you have to create a prototype to solve this issue. You can choose any example to make this platform, like IPL Auction, Copyright/trademark auction, Historical art auction, etc.

Features:

- Updating the bidding amount in real-time with low latency.
- Scrap valid data for the example you have chosen.
- It must be a multi-user platform.
- Consider all edge cases while developing the platform.
- You may add relevant features.

STATEMENT 4 – ED-TECH

VIRTUAL PLACEMENT CELLS

Getting a good job opportunity for students is difficult but is currently being solved by many platforms on the internet. There is no such platform to connect Training and Placement cells of colleges with the companies who want to hire students from colleges. The current scenario looks like all colleges post their placement status on LinkedIn for marketing their T&P cell and try reaching the companies.

So, your task is to create a prototype that will connect all T&P cells of colleges to companies that want to hire.

Features:

- T&P cells can showcase their profiles to the companies.
- Companies can post the status for hiring purposes.
- Companies can list all hiring details in their profile.
- Include all important features required for collaboration among T&P cells and companies seamlessly.



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STATEMENT 5 – BLOCKCHAIN

EXPERT TRADING SUGGESTIONS MADE EASY

Crypto trading is very much fascinating for all. You have to continuously analyze the crypto market and trade your coins for a better trade. Even after putting in so much effort, it's not sure that you will not get maximum profits on all your trades. Trading can be made easy if we implement an algorithm that will suggest for the trades and calculate the expected profits after an interval. Also, forecasting the crypto coin prices will make it easier to initialize trades.

You have to create a web app, mobile app, or software to solve the above problem.

Features:

- Efficient trading suggestions with good accuracy using.
- The platform should be a real-time application.
- Forecast the crypto price In multiple time frames.
- All the data depicted or used should be valid according to the standards of the real market.
- Make sure you add all features required to make the platform ready and easy to use in the real world.

STATEMENT 6 – HEALTH TECH

IMPROVING FACILITIES IN GOVT HOSPITALS

Getting a proper health facility is a dream for all. Not all government hospitals have good facilities, equipment, or experienced staff to take care of the people of that city. This issue can be resolved if all the government hospitals work collaboratively and ensure good facilities are provided to all. For example, consider in a small town, a government hospital does not have the equipment to treat the patient. So, the hospital referred that patient to a more equipped government hospital near to the city. Now the patient feels helpless to go to the referred government hospital and explain his/her illness, as they now must follow the same procedure as followed before in the small-town government hospital to get information about the illness like going through the same tests, same checkups, etc.

So, you have to create a prototype that solves the issues mentioned above.

Features:

- Patients' records must be maintained on the platform, sharing while referring to other government hospitals.
- The government hospitals must have a way to connect with other government hospitals.
- Referring patients to other government hospitals must be made seamless.
- Make sure you add all features required to make the platform ready and easy to use in the real world.





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Code of Conduct

Be respectful. Harassment and abuse are never tolerated. If you are in a situation that makes you uncomfortable at an E-Cell Event, if the event itself is creating an unsafe or inappropriate environment, or if interacting with an E-Cell representative or event organizer makes you uncomfortable, please report it using the procedures included in this document.

Entrepreneurship Cell MANIT Bhopal (E-Cell) stands for inclusivity. We believe that every person has the right to hack in a safe and welcoming environment.

Harassment includes but is not limited to offensive verbal or written comments related to gender, age, sexual orientation, disability, physical appearance, body size, race, religion, social class, economic status, veteran status. Additional cases of harassment include but are not limited to sharing sexual images, deliberate intimidation, stalking, following, brigading, doxing, harassing photography or recording, sustained disruption of talks or other events, inappropriate physical contact, and unwelcome sexual attention. If what you're doing is making someone feel uncomfortable, that counts as harassment and is enough reason to stop doing it.

Participants asked to stop any harassing behaviour are expected to comply immediately.

Sponsors, judges, mentors, volunteers, organizers, E-Cell members, and anyone else participating in the event are also subject to the anti-harassment policy. In particular, attendees should not use sexualized images, activities, or other material in their hacks and during the event.

If a participant engages in harassing behaviour, E-Cell may take any action it deems appropriate, including warning the offender or expulsion from the event with no eligibility for reimbursement or refund of any type.

If you are being harassed or notice that someone else is being harassed or has any other concerns, please contact E-Cell using the reporting procedures defined below.

We expect participants to follow these rules at all hackathon venues, online interactions about the event, hackathon-related social events, and hackathon supplied transportation.



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Reporting Procedures

If you feel uncomfortable or think there may be a potential violation of the code of conduct, please report it immediately using one of the following methods. All reporters have the right to remain anonymous.

By sending information to the general reporting line, your report will go to any or all the E-Cell representatives listed below.

- Sourabh Mishra – (+91) 9610137849, esummit@ecellnitb.com
- Manushree Singh – (+91) 9696411932, esummit@ecellnitb.com
- Utkarsh Mishra – (+91) 8957946660, esummit@ecellnitb.com

Special Incidents

If you are uncomfortable reporting your situation to one or more of these people or need to contact any of them directly in case of emergency, direct contact to detail listed below.

- Sourabh Mishra – (+91) 9610137849, esummit@ecellnitb.com

E-Cell reserves the right to revise, make exceptions to, or otherwise amend these policies in whole or in part. If you have any questions regarding these policies, please get in touch with E-Cell by email



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