



Indian Institute of Technology Guwahati

# KRITI '24

Digital Identity: Blockchain & genAI  
Solutions for Enhanced Security and Privacy

(High Prep - 600 Points)

Organizer

Finance & Economics Club  
IIT Guwahati



## Digital Identity: Blockchain & genAI Solutions for Enhanced Security and Privacy

600 Points

Start : 21 /01

End : 11/02

### Overview:

Digital identity is becoming increasingly essential in our interconnected world, but it is plagued with challenges such as security, privacy, and interoperability. The objective of this problem statement is to leverage **blockchain technology and generative AI (genAI)** to address a real-life digital identity problem, demonstrating a creative and effective solution. The project can either be solving a pre-existing issue or create a new digital identity solution itself.

### Task:

Participants are required to identify a specific digital identity problem in at least one real-life situation and propose a feasible solution using a combination of blockchain and genAI. The solution should enhance security and privacy while showcasing the innovative use of generative AI to improve the overall product.

### Key Objectives:

- Identify a digital identity problem in a real-life context.
- Propose a solution leveraging blockchain technology and genAI.
- Integrate external APIs for enhanced functionality.
- Demonstrate creative genAI usage
- Develop user-centric decentralized application (dApp)

### Guidelines:

- Participants must use external APIs to enrich their solutions and demonstrate the integration of third-party services.
- Effective use of generative AI (genAI) is encouraged to enhance the product's capabilities and user experience.
- Participants should consider the scalability and sustainability of their solutions.
- Blockchain technology must be a core component of the proposed solution.
- Originality, creativity & feasibility will be key factors in the evaluation process.
- The mid-valuation document needs to be submitted by **04/02/2024, 11:59 PM IST**.



### Evaluation Criteria:

Solutions will be assessed on-

- **Innovation (15%):** Uniqueness and creativity.
- **Functionality (15%):** Effectiveness, usability, and project completeness.
- **Blockchain Utilization (15%):** Chosen blockchain selection and effective leveraging of unique capabilities.
- **GenAI Utilization (5%):** Integration and value addition of genAI.
- **External API Integration (5%):** Impactful use of external APIs.
- **Technical Merit (25%):** Technical prowess, including difficulty, sophistication, elegance, and code quality.
- **Future Potential (10%):** Consideration for scalability and real-world implementation.
- **Presentation (10%):** Quality and clarity in the final demo session.

### Mid-Valuation Requirements:

In addition to the final submission, hostels must submit a mid-valuation document. This document should include:

- Proposal of the idea the team is working on.
- Detailed insights into the proposed solution's development.
- No marks will be allocated for the mid-valuation document in the final scores, but its submission is compulsory for progress tracking.

*\*Hostels failing to submit the mid-valuation document will be disqualified from the PS.*

### Final Submission:

Hostels are required to mail the following to [finneco\\_club@iitg.ac.in](mailto:finneco_club@iitg.ac.in):

- A presentation deck outlining the identified problem, proposed solution, and development process.
- Zip file containing the project source code with a structured README file explaining the project & providing clear instructions on how to run the app on localhost.
- The final submission must be completed strictly by **11/02/2024** at **11:59 PM IST**.

*\*Brownie points will be awarded for participants who deploy their dApp, showcasing a commitment to practical implementation.*



## General Rules:

### 1. Who can participate:

- The Participating team can have maximum of Eight People out of which minimum 3 should be Second Year and at least one Fresher.
- The Core Team Members of Finance & Economics Club (Third Year and current POR Holders) cannot participate in this PS.
- Only one team is allowed to participate from each hostel.

### 2. Penalties

- For any violations of rules, 50% of marks of this PS (i.e. 300 pts) will be subtracted from total points of the Hostel.
- Penalty for late submission will be as follows:
  - i. For every minute of late submission, 1% of points will be deducted for each minute for the first 15 minutes.
  - ii. 20% of the points will be deducted if submission is between 15 to 30 minutes.
  - iii. 50% of the marks will be deducted if submission is between 30 to 45 minutes.
  - iv. 75% of the marks will be deducted if submission is between 45 to 50 minutes.
  - v. After 60 minutes there will be no submission.

**Let the innovation begin!**