**SynapHack 3.0 – Official Problem Statement**

## Theme: Event & Hackathon Hosting Platform

Hackathons and events are the backbone of innovation, learning, and collaboration. However, most existing platforms are either complex, expensive, or lack flexibility for student-driven or community-led initiatives.  
  
Your challenge in SynapHack 3.0 is to design and develop a modern, scalable Event & Hackathon Hosting Website that empowers organizers, participants, and judges with smooth workflows and real-time engagement.

## Core Features (Mandatory)

* Event Creation & Management – Organizers can configure events with theme, tracks, rules, timeline, prizes, and sponsors; supports online & offline events.
* Registration & Teaming – Easy registration (individuals/teams), team formation & invites, authentication system (email/social login).
* Project Submission & Evaluation – Participants upload projects (docs, GitHub, video); judges review, score, and give feedback; support multiple rounds.
* Communication & Updates – Real-time announcements, reminders, and Q&A channels.
* Role-based Dashboards – Participants: manage teams & submissions; Organizers: manage events & announcements; Judges: review & score projects.

## Tech Stack Requirements

* Azure Database (SQL / Cosmos DB) – for secure structured storage.
* MongoDB – for flexible unstructured data storage (submissions, announcements, chats).
* Azure Cloud Deployment – host using Azure Web App, Functions, Storage, etc.

## Bonus Features (Optional but Highly Valued)

* AI-based project plagiarism/similarity detection.
* Automated certificate generation for participants.
* Sponsor & Partner showcase integration.
* Analytics dashboard for organizers.
* Web3-based Proof of Participation (POAP) / NFT badges.
* Integrated real-time leaderboard.

## Judging Criteria

* Innovation & Creativity – uniqueness of solution and features.
* Functionality – completeness and reliability of workflows.
* Scalability – ability to handle multiple events and 1000+ users.
* Tech Integration – efficient use of Azure Database + MongoDB.
* UI/UX – clarity, responsiveness, and user-friendliness.

## Deliverables

* Live Demo – Hosted on Azure.
* GitHub Repository – Clean, open for review.
* Documentation – Short report covering features, architecture, and tech stack.

The goal is to create a platform that is not just an event manager, but a complete ecosystem for innovation, making hackathons more transparent, interactive, and impactful.