BlockBloom (Recruitment Tasks)

Task-1:

Situation 1: Server Downtime in Online Payment Systems

Problem:

While trying to book a Tatkal train ticket, I encountered a failure at the payment gateway. The centralized system relied on a single server, which crashed due to high traffic. As a result, my transaction failed, and I missed the opportunity to purchase the ticket. This incident highlights the vulnerability of centralized systems, where a single point of failure can disrupt critical services.

Decentralized Solution:

A decentralized payment system, such as one built on blockchain, would process transactions through a network of distributed nodes instead of relying on a single server. In this model, if some nodes are overloaded or fail, others can seamlessly take over, ensuring continuity of service. This redundancy minimizes downtime and enhances the reliability of online payments, even under high demand.

Situation 2: Content Control on YouTube

Problem:

A video I uploaded to YouTube was flagged and removed by the platform's centralized moderation system. The lack of transparency in this decision, coupled with limited options for appeal, left me feeling powerless. The centralized authority dictated what content was permissible, restricting creators' autonomy over their work.

Decentralized Solution:

A decentralized social media platform addresses these issues by distributing moderation across multiple nodes or communities. Each community can define its own governance policies for content, ensuring moderation decisions are transparent and fair. Decentralized platforms also empower creators by granting them greater ownership and control over their content, as well as how it's moderated and shared.

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Task-2: **https://github.com/hrushikeshroop/Book-My-Ticket.git**