Semester	T.E. Semester VI – Computer Engineering
Subject	Cloud Computing
Subject Professor In-charge	Prof. Divya Nimbalkar
Assisting Teachers	Prof. Divya Nimbalkar

Members	Deep Salunkhe 21102A0014 Omkar Patil 21102A0003 Pranav Redij 21102A0005 Shantanu Lagvankar 21102A0043 Darshan Mahajan 21102A0049 Sahil pokharkar 21102A0006 Aditya Shinde 21102A0057 Nikhil Dhumal 21102A0009 Aditya Mali 21102A0077
TE Division	A

Title:

Assignment 1

Explanation:

The class was divided in 4 group were each group displayed a skit where they were a organization that was trying to convince there CEO to adopt the cloud architecture

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Implementation:

Group 4(Our Group):

In our class activity, Group 4, representing the team behind "Shetkari Mitra," enacted a skit aimed at persuading our CEO, Omkar Patil, to transition our organization's infrastructure to cloud architecture. The skit involved key members of our team, including the CTO, security engineer, frontend engineers, ML engineers, and database engineer, each presenting crucial points regarding the benefits of migrating to the cloud.

Team Composition:

- CEO: Omkar Patil
- CTO: Deep Salunkhe
- Security Engineer: Sahil Pokharkar
- Frontend Engineers: Nikhil Dhumal, Darshan Mahajan
- ML Engineers: Pranav Redij, Shantanu Lagvankar
- Database Engineer: Aditya Mali, Aditya Shinde

Premise: The engineers of "Shetkari Mitra" expressed their aspirations to enhance the product's capabilities through innovative features. However, they faced limitations due to the use of in-house servers. Hence, they sought a meeting with the CEO to advocate for transitioning to cloud servers.

Discussion Points:

1. **Security:** The current authentication algorithm was deemed inadequate, posing a security risk. Transitioning to cloud authentication would enhance security measures.
2. **UI:** The dynamic UI strained the in-house server, inhibiting further enhancements. Moving to the cloud would provide scalability to accommodate future UI improvements.
3. **Machine Learning (ML):** Plans to implement real-time photo analysis for disease prediction, harvest time estimation, and fertilizer/medication requirements required substantial computational resources beyond the capabilities of the current infrastructure.
4. **Database:** Collaborations with numerous NGOs resulted in rapid database expansion, necessitating additional storage. The scalability of cloud servers would address this issue effectively.
5. **Maintenance:** Significant time and effort were expended on server maintenance, detracting from core development activities.

CEO's Conclusion: While acknowledging the importance of the proposed features, CEO Omkar Patil expressed reservations about abandoning existing server investments entirely. Instead, he proposed a hybrid approach, leveraging both in-house servers and cloud services to maximize benefits while mitigating risks.

Review of Other Groups' Skit Presentations:

During our class activity, each group demonstrated exceptional creativity and preparation in crafting skits to present their team's requirements to the CEO. Every group exhibited a clear understanding of their product's needs and effectively communicated why certain features were essential for its success. Here's an overview of some standout features from each group:

Group 1 (CEO Shreya):

Group 1 impressed with their structured approach, emphasizing the necessity of their product's requirements. They designated a team member specifically responsible for coordinating finances, aligning expenditures with the CEO's decisions and the team's needs. This strategic organization showcased their attention to detail and commitment to efficient resource management.

Group 2 (CEO Aditi):

Group 2 showcased an outstanding product centered around the critical issue of scholarship distribution. Their skit demonstrated seamless teamwork, with each member playing their role effectively. The cohesive presentation underscored their dedication to addressing a significant societal challenge while highlighting the importance of collaboration and unity within the team.

Group 3 (CEO Prathamesh & Sairaj):

Group 3 stood out for their comprehensive understanding of their product's strengths. Particularly commendable was the portrayal of their CEOs, who demonstrated exceptional leadership by carefully considering every aspect of the engineering team's demands. Their skit highlighted the importance of leadership in decision-making, ensuring that all perspectives were taken into account to drive the product forward effectively.

Conclusion:

Overall, each group showcased remarkable creativity, teamwork, and strategic thinking in their skit presentations. Their ability to articulate the needs of their products and propose viable solutions reflects

their commitment to excellence and innovation in product development. These skits not only entertained but also provided valuable insights into the complexities of decision-making and collaboration within a team setting.