NAME :- KRUNAL RANK

ROLL No :- U18CO081

CLASS :- BTECH 4TH YEAR

SEMESTER :- 7

DIVISION :- B

Ans 1:- Tiktok is a user centric video sharing application with ever changing requirements.

Hence, the SDE team at Tiktok might be following incremental model using some Prototyping as well. Incremental model uses Agile mode of development and facilitates and manages changes along with the application's interaction with users.

Practically, Tiktok its development team must be following strict Agile Development based on focused targets that need to be achieved in "2-4 weeks" called Sprints, updates to the team are given in scrum meetings, job progress is displayed on Kanban or Jira board and every sprint follows the previous sprint after desi thorough review and analysis retro.

Ans 2 g) Railway Reservation System :-
   • Functional Requirements :-
      → User Account System and Control
      → Re Ticket Booking and Management System
      → Train Information and Schedule management
      → Payment Integration
      → Reservation Status and receipt tracking

   • Non functional requirements :-
      → Maintainibility
      → Scalability
      → Availability
      → User Privacy and Security regulation

→ Mitigation to payment failures
→ Periodic Logging

b) ATM Cash Withdrawal System :-

• Functional Requirements :-
→ Card Detection System
→ User Authorization using PIN
→ Access to other Bank Services
→ Cash Withdrawal Sequential procedure details
→ Recording the process and providing transaction to the user

• Non functional requirements :-
→ Maintainibility
→ Secure authentication system
→ Mitigation to payment failures

c) Word Processor Software :-
• Functional Requirements :-
→ Text editing
→ Embedding images of various formatting
→ Margins and Padding
→ Text formatting Options
→ Printing document options.
→ Adding cells (tables)
→ Grammatical & Spell checking capabilities

• Non functional requirements :-
→ Ease of Access
→ Secure format storage of document
→ Feasible file size