Software Engineering Assignment#2

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Group-4 | Question 4

SDA Project = Social Media Platform

Key Agile principles and practices employed
- Embracing changes in requirements and priorities even late in the development process.
- Breaking down the project into smaller, manageable iterations or sprints.
- Regularly integrating code changes and running tests to ensure the product remains stable.

Challenges faced
- Ensuring effective communication and collaboration among team members, especially in a remote setting.
- Managing changes in requirements without impacting the project timeline or budget.

Lessons Learned
- Establishing clear channels of communication and ensuring everyone is on the same page regarding project goals and priorities.
- Being adaptable to change and embracing it as part of the development process.

Scrum simulation technique
Roles
- **Product Owner:** Responsible for representing the stakeholders' interests and maintaining the product backlog. They prioritize tasks based on business value and communicate the vision to the development team.
- **Scrum Master:** Facilitates the Scrum process, ensures the team adheres to Scrum principles and practices, and removes any impediments hindering the team's progress.
- **Development Team:** Responsible for delivering increments of the product during each sprint. They estimate tasks, collaborate on solutions, and self-organize to accomplish the sprint goal.

Simulation
1. **Sprint Planning Meeting (Day 1):**
   - PO presents the prioritized backlog items.
   - DT estimates the effort required for each item.
   - Together, they select backlog items for the sprint backlog.
2. **Daily Stand-up Meetings (Day 2-4):**
   - DT meets daily to discuss progress, share updates, and identify any obstacles.
   - SM facilitates the meeting, ensuring it stays within the time box (15 minutes).
3. **Sprint Review Meeting (Day 5):**
   - DT demonstrates the completed features to the PO.
   - PO provides feedback and accepts the features.
4. **Sprint Retrospective (Day 6):**
   - DT reflects on what went well, what could be improved, and any action items for the next sprint.
   - SM facilitates the discussion and ensures all voices are heard.