**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.

1. **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).

1. **Sprint Review Meeting (Day 5):**

* DT demonstrates the completed features to the PO.
* PO provides feedback and accepts the features.

1. **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.