Task 2

The project will be managed by Agile mode

Work break down

Tasks should be broke down as user stories, each story should be a deliverable

Team 1

ERP DEV: build product info ,customer info api, push inventory into kafka topic
Middle Layer Dev: product info, inventory, customer info processing, process inventory change event in kafka consumer
Tester: write automation test to check data flow
DevOps: setup CI/CD pipeline for Microservice, create kafka topic for inventory

Team2

ERP DEV: build SAP ERP API to create order, push order update into kafka topic
Middle Layer Dev: build order producer and consumer to push order from Jamstack to SAP ERP by calling SAP ERP API
Build consumer for order status update
Tester: Test SAP ERP API and validate order order and order status
Devops: deploy SAP ERP API, create kafka topics for order and order status update

Tracking

 Manage project with Jira, and daily standup to ensure everyone is on track.

High-Quality Software

1 code review: reach pull request should be review cross team
2 CI/CD for build and test, failed build or test on PR should not be merged
3 setup some static code style by tools such as sonar or check style
4 knowledge sharing cross team

Measurement and Monitor

Story point: compare the story points completed by each team to ensure they should be roughly the same between two teams
Code review back and forth: code review comments should be addressed
Build failure: the frequency of build failure of submitted PR

Support

Tier 1: there should be support team to handle some general customer questions
Tier 2: engineer team should handle cases escalated by Tier 1 support

Risk(Team member loss)

Do knowledge transfer during notice period of the team member
Review current tasks and prioritize tasks and assign high priority tasks to middle layer engineer in team 2
Hire new engineer