E-Comm Pro Project: To Build a scalable, secure, and user-friendly e-commerce platform

1.Problem Analysis:

The problem faced by small business in having and maintaining an online presence can be solved by E-Comm Pro. This web-based e-commerce platform can operate round-the-clock and increasing sales opportunities. It will empower these businesses to thrive in a competitive digital economy by enhancing accessibility, robust functionality, including product listing, inventory management, user accounts, payment processing, and analytics dashboards, reducing costs and fostering growth opportunities. E-Comm Pro allows small businesses to reach customers beyond their local area, opening access to regional, national, and even global markets.

2.Determine The Critical Path:

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3. Risk Identification and Mitigation:

**Risk 1: User Acceptance Delays**

* **Impact**: If stakeholders take longer than expected to review or provide feedback during user acceptance testing, it could cause delay in subsequent tasks.
* **Mitigation**: Engaging stakeholders early in the project, providing them with a clear schedule for review periods and regularly communicating the importance of adhering to timelines will mitigate this risk.

**Risk 2: Resource Constraints**

* **Impact**: Limited resources as regards team size may lead to delays if tasks take longer than expected.
* **Mitigation**: Need to optimize task assignments and ensure cross-functional team members are able to handle overlapping responsibilities and using project management tools e.g. Trello, Gant Chart, Jira to track progress and allocate tasks.

4. Impact of Change Request: If the client requests an additional feature requiring 3 weeks of development (e.g., multi-currency support), analyze its impact on the critical path and suggest ways to accommodate it within the timeline.

* **Impact on Critical Path**: This feature likely adds to Backend Development or Integration, pushing the timeline by 3 weeks, and making the project 24weeks.
* **Mitigation**:
  1. Resources can be reallocated to run the additional feature in parallel with Backend or Integration tasks.
  2. Identify whether the feature can be postponed to a future sprint.
  3. A non-critical task can be deprioritized or shortened to recover time.

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5. Your Recommendations (If Necessary): Should your CPA show that your project’s minimum viable time exceeds the desired timeline, what would you recommend to your stakeholders?

Since CPA exceeds the 16-week timeline, stakeholders must consider the following options:

1. Postpone non-critical features such as the Analytics Dashboard or advanced payment integrations for a future update.
2. Temporarily bring in additional developers or specialists to accelerate Backend and Integration tasks.
3. Negotiate with stakeholders to extend the timeline slightly while prioritizing essential features for the launch.