PROJECT MANAGEMENT

1. Describe the PM/PMI Code of Ethics and Professional Conduct

Slides

The PMI Code of Ethics and Professional Conduct is based on four values that were identified as most important to the project management community:

- · Responsibility,
- Respect,
- Fairness,
- Honesty

It outlines the expectations for ethical behavior and professionalism for project management practitioners. It provides guidelines to uphold the reputation of the profession and promote stakeholder trust.

2. List and Describe the Project Agreements

Slides

- **Project Charter**: A document issued by the project initiator or sponsor that formally authorizes the existence of a project and provides the project manager with the authority to apply organizational resources to project activities.
- **Project Vision Statement:** Includes a clear vision of the desired objectives and alignment with the organization's strategic goals.

3. Agile vs Plan Driven/Predictive vs Hybrid

CHATGPT

- **Agile** is an iterative and incremental approach to project management. Planning is done in short-term cycles known as iterations or sprints. It welcomes change and emphasizes adaptability. The customer is continuously involved, and the team frequently delivers product increments. Teams in Agile are self-organizing, collaborative, and cross-functional.
- **Plan-Driven, or Predictive**, is a linear and sequential approach. Here, detailed long-term planning is done from the outset. This approach tends to minimize and control changes, making them often costly or difficult to implement late in the process. Customer involvement is primarily at the beginning, during requirements gathering. There's a heavy emphasis on documentation in every phase.
- Hybrid combines elements from both Agile and Plan-Driven approaches. It involves a mix of
 detailed initial planning with iterative or adaptive cycles. While it's more adaptable than a
 purely Plan-Driven approach, it may have more constraints than a purely Agile one. Customers
 are deeply involved during the planning phase and continue to engage during iterative cycles.
 Teams in Hybrid might have specialized roles but also encourage collaboration. Documentation
 strikes a balance between being comprehensive and focusing on working increments.

4. What are the goals in Project, Program and Portfolio?

Slides/CHATGPT

Projects are temporary and have specific start and end dates. They focus on detailed tasks, schedules, and resource allocation to achieve the defined objectives. The success of a project is measured by its ability to meet the predetermined requirements within the agreed-upon constraints of scope, time, and cost.

Programs often involve dealing with ongoing operations and management of multiple project teams for alignment and efficiency. They handle interdependencies, risks, and potential conflicts among the projects.

Portfolios consider the bigger picture and strategic goals of the organization. They are about selecting and prioritizing the right group of projects and programs.

5. Describe Project Resource Management and its importance.

CHATGPT

Project Resource Management includes the processes to identify, acquire and manage the human resources needed to successfully complete a project.

It is crucial as it directly influences the project's efficiency, effectiveness, and overall success. Proper management of resources ensures that projects are completed on time, within scope, and within budget, leading to satisfied stakeholders and enhanced organizational value.

6. MVP vs MBI - Minimum Viable Product vs Minimum Business Increment

Slides/CHATGPT

MVP is the smallest collection of features that can be included in a product for customers to consider it functional. In Lean methodologies, it can be referred to as "bare bones" or "no frills" functionality.

MBI is a concept in Agile and Lean product development. It represents the smallest amount of work that, when delivered, provides value to the business, considering both development and deployment costs. In essence, it's the smallest chunk of a project that, once completed, yields a positive return on investment.

7. Describe the Stakeholder Engagement Strategy Pillars

Slides

1. Involve Stakeholders

Active involvement of stakeholders in decision-making processes and project activities. By engaging them regularly, seeking their feedback, and including them in key meetings, stakeholders feel valued and are more likely to support the project's goals.

2. Enable Appropriate Management Strategies

This means that each stakeholder's engagement approach should be tailored based on their unique needs, influence, and interest. By classifying stakeholders and customizing communication and engagement strategies for each group, resources are used more effectively, and key stakeholders receive the right attention.

3. Create and maintain relationships

This involves regular check-ins, transparent communication, understanding their concerns, and building trust by consistently delivering on promises. By fostering these relationships, collaboration is enhanced, problems are resolved more easily, and the project receives greater overall support.

8. Artifacts vs Deliverables and Project Documents

CHATGPT

Artifacts vs. Project Documents: While both can offer insights into the project, artifacts are more about showcasing evidence or proof of actions and decisions, whereas project documents provide continuous updates on various facets of the project.

Artifacts vs. Deliverables: Artifacts are remnants of the process, showcasing the path taken during the project, while deliverables are the final outcomes or objectives of the project.

9. Describe EEFs – give an example of internal vs external

Slides/CHATGPT

EEFs, or Enterprise Environmental Factors, refer to the conditions, not under the direct control of the team, that influence, constrain, or direct the project.

Internal: Resource capabilities External: Marketplace conditions

10. Describe OPAs – give an example

Slides/CHATGPT

OPAs, or Organizational Process Assets, refer to the process-related assets, knowledge bases, and historical information used by an organization to achieve its objectives. These assets influence how projects are conducted and provide a foundation from which to operate and learn.

Example: Historical information and lessons learned from previous projects

11. Project Phases and Phase Gates?

Slides

A Project Phase refers to a collection of activities within a project. Each project phase is goal oriented and ends at a milestone.

A Phase Gate is a point of review at the end of a phase in which a decision is made to continue to the next phase, to continue with modification, or to end a project or program.

12. Scrum vs Kanban

CHATGPT

Scrum is a structured agile methodology that divides work into time-boxed iterations called sprints with defined roles and ceremonies. It emphasizes commitment to a set of items during each sprint, and changes within a sprint are generally discouraged.

Kanban is a flow-based approach that emphasizes visualizing and optimizing work. It uses a Kanban board to manage tasks, allows for continuous flow and release, and places importance on limiting work in progress.

While Scrum is more rigid with its structure and ceremonies, Kanban offers more flexibility and focuses on continuous improvement of the workflow. Some teams blend the two, taking elements from both methodologies.

13. What should be taken into consideration for virtual teams to be set up for success? Slides

- Investment in and active use of video conferencing tools enables team meetings to more
 fully integrate all aspects of the team and ensure team members are committed to their
 solution approaches.
- Another key area is visibility into work and work status. Even a small team will have trouble
 aligning its work activities unless effective tools are implemented to collaborate and promote
 visibility.

Many tools enable the use of kanban boards to visualize the work to do, track (and limit)
work in progress, and note when work activities are completed, and objectives have been
met.

14. The difference between Iterative, Incremental and Agile

CHATGPT

Iterative development involves refining the project through repeated cycles (iterations) and producing versions with each cycle until the final complete system is achieved. It focuses on refining a system or product over time.

Incremental development involves breaking down the project into smaller parts or increments. Each increment represents a portion of the complete system's functionality and is developed separately. The system is built increment by increment until it's complete.

Agile is a mindset and set of principles which often uses both iterative and incremental approaches. Agile promotes adaptive planning, early delivery, continuous improvement, and encourages rapid and flexible responses to change. It values collaboration, customer feedback, and delivering small, functional bits of the application as soon as they're ready. In essence, while iterative and incremental refer to ways of developing and delivering the product, Agile is a broader philosophy that can encompass these approaches but emphasizes flexibility, collaboration, and customer value.

15. Product Backlog vs Iteration Backlog

CHATGPT

The Product Backlog is a dynamic list that contains all desired features and tasks for a product. It's prioritized by business value and stakeholder needs and evolves as the product develops. **The Iteration Backlog**, on the other hand, is specific to a particular sprint or iteration. It is a subset of the Product Backlog, containing tasks the team commits to completing within that iteration. While the Product Backlog is a broad overview of what needs to be done for a product, the Iteration Backlog is more detailed and focused on the immediate sprint's goals.

16. What is Project Governance?

Slides

Project Governance represents framework, functions, and processes that guide project management activities to create a unique product, service, or result to meet organizational, strategic, and operational goals.

CHATGPT

Project Governance refers to the framework through which project decisions are made. It involves a set of principles, processes, and procedures that guide project management activities to achieve the project objectives while considering stakeholder needs and expectations. Project governance ensures that a project is executed in a consistent manner, resources are used appropriately, risks are managed, and the project aligns with the organization's overall strategy and goals.

17. What does a Change Management plan answer?

CHATGPT

A Change Management Plan answers the need for how changes to a project will be formally identified, assessed, approved, and incorporated. It provides a systematic approach to managing all changes made during the project lifecycle. By addressing how changes are handled, the plan ensures that every change is consistent with the project objectives, aligned with stakeholder expectations, and does not introduce unintended consequences or risks.

18. Describe the difference between old and new/modern Project Management CHATGPT

Old or traditional Project Management primarily focused on a linear, sequential approach, often called the "Waterfall" method. It emphasized detailed upfront planning, strict control, and execution according to the plan, with changes being heavily controlled. Success was typically measured by adhering to predetermined budgets, timelines, and scope.

New/modern Project Management, influenced by agile methodologies and other progressive practices, emphasizes flexibility, collaboration, and customer satisfaction. It often works in iterative cycles, values stakeholder feedback, and adapts based on this feedback and changing circumstances. Success in modern project management is often gauged by the product's value to the customer and the project's adaptability.

19. Team vs Project Charter?

Slides

A Team Charter is a document that records the team values, agreements, and operating guidelines as well as establishes clear expectations regarding acceptable behavior by project team members.

A Project Charter is a document issued by the project initiator or sponsor that formally authorizes the existence of a project and provides the project manager with the authority to apply organizational resources to project activities.

20. Describe the XP Metaphor

Slides

A common Extreme Programming (XP) technique that describes a common vision of how a program works. **The XP metaphor** technique explains a complex idea in simple, familiar terms, using common language and vocabulary.

CHATGPT

In Extreme Programming (XP), the "Metaphor" is a simple shared story or analogy that guides the development team in creating the system's architecture and functionality. It helps the team visualize the system and its components, providing a consistent vision of how they interact and fit together.

21. Types of Project Agreement?

CHATGPT

- **Contract Agreement:** Formalizes the work scope, payment, and conditions between a client and service provider.
- Memorandum of Understanding (MOU): A preliminary agreement outlining basic terms and roles.

- Statement of Work (SOW): Details tasks, deliverables, and timeline for a project.
- **Service Level Agreement (SLA):** Sets performance standards and expectations for a service provider.
- Non-disclosure Agreement (NDA): Protects confidential information shared during a project.
- Master Services Agreement (MSA): Governs terms for multiple projects over time.
- Purchase Order (PO): Authorizes a purchase, detailing the items and payment terms.
- Letter of Intent (LOI): Signals an intention to form a more detailed agreement later.
- Teaming Agreement: Defines roles for entities collaborating on a bid.
- **Joint Venture Agreement:** Sets terms for entities undertaking a project together, including responsibilities and profit-sharing.

22. You are leading a team of developers which are working on a new Taxation Software – what would cause your project to change? Give examples

CHATGPT

- **Regulatory Changes:** If the government introduces new tax laws or modifies existing ones, the software will need to be updated to accommodate these changes.
- **Technology Evolution:** As new technologies or platforms become available, there may be a need to update or migrate the software to ensure it remains current and efficient.
- **User Feedback:** Once users begin testing or using the software, their feedback might highlight areas that need modification or enhancement.
- **Budget Adjustments:** If the project's budget is reduced or increased, the scope or quality of the project might need to be adjusted.
- **Resource Availability:** If key team members leave or new experts join, the project's timeline or approach might need a reevaluation.
- **Scope Changes:** Stakeholders might request additional features or drop certain functionalities based on shifting business priorities.
- **Project Timeline:** Delays in certain deliverables or accelerated deadlines can cause a reevaluation of the project's phases and tasks.
- **Market Trends:** Introduction of a competitive software or changing industry trends may necessitate alterations to ensure the product remains relevant and competitive.
- **Security Concerns:** New threats or vulnerabilities discovered in the technology stack used might prompt changes to ensure data safety.
- **Integration Issues:** If the software needs to interface with other existing systems, challenges in integration can lead to changes in the approach or design.

23. What is the Tuckman Ladder?

Slides/CHATGPT

The Tuckman Ladder describes the stages of group development introduced by Bruce Tuckman:

- **Forming:** Initial stage; team members are polite and trying to understand their roles.
- **Storming:** Team members figure out how to work together. Conflicts arise as members express individual opinions.
- Norming: Team members start to work together. Differences get resolved, and the team becomes more cohesive.
- **Performing:** The team functions at a high level, working effectively towards goals.
- **Adjourning:** The team completes its task and prepares to disband.

24. What is a PMO?

Slides

A management structure that standardizes the project-related governance processes and facilitates the sharing of resources, methodologies, tools and techniques. PMOs are more common in larger organizations because of the number of projects that can be in process at the same time.

CHATGPT

A PMO, or Project Management Office, is a centralized team, department, or entity within an organization responsible for defining and maintaining project management standards and practices. The primary purpose of a PMO is to ensure that projects are delivered consistently and effectively, according to best practices and in alignment with the organization's strategic objectives.

25. Describe Return on Investment

Slides

A financial metric of profitability that measures the gain or loss from an investment relative to the amount of money invested.

CHATGPT

Return on investment is a ratio that compares the gain or loss from an investment relative to its cost. It is used to measure the likelihood of gaining a return from an investment. Essentially, it's the percent return on an initial investment, calculated by taking the projected average of all net benefits and dividing them by the initial cost.

26. Describe internal Rate of Return

Slides

The interest rate that makes the net present value of all cash flow equal to zero. This rate is a function of the cost of capital for project implementation.

CHATGPT

The internal rate of return is the projected annual yield of a project investment, incorporating both initial and ongoing costs into an estimated percentage growth rate a given project is expected to have.

27. How do we identify and classify Risk?

CHATGPT

Identifying risks is a crucial step in risk management and involves recognizing potential events or conditions that could impact objectives.

- 1. Gather a diverse team and discuss potential risks.
- **2.** Analyze past projects or operations for previous risks.
- 3. Interview stakeholders, team members, and experts.
- 4. Consider "what-if" situations.
- **5.** Monitor market, competitors, and regulatory changes.

Classify based on source (e.g., technical, financial), impact (high, medium, low), probability of occurrence, response strategy (e.g., avoid, mitigate), and urgency.

28. What is included in a Risk Management Plan?

CHATGPT

A risk management plan documents the whole process, including identifying, evaluating, and mitigating risk. It includes the following steps:

- 1. Identifying risks
- 2. Assessing the severity and the likelihood of the risks
- 3. Minimize or eliminate risks
- 4. Assign responsibility for tasks
- 5. Develop contingency plans
- 6. Communicate plan and train staff
- 7. Monitor for new risks

29. What is PESTLE?

Slides/CHATGPT

PESTLE (Political, Economic, Socio-Cultural, Technical, Legal, Environmental) is a framework used to understand external factors that can introduce risk, uncertainty, or provide opportunities and affect the value and desired outcomes of a project.

- **Political:** Government policies, regulations, and political stability.
- **Economic:** Economic growth, exchange rates, inflation, and interest rates.
- **Social:** Demographics, cultural norms, and societal attitudes.
- **Technological:** Technological advancements, innovation, and R&D activity.
- Legal: Laws and regulations affecting the industry or business.
- **Environmental:** Ecological factors, climate change, and sustainability concerns.

30. What are Audits and what are they used for?

CHATGPT

Auditing is an effective means of ensuring compliance. Audits are systematic evaluations of records, operations, or performances to ensure accuracy, compliance, and efficiency against established criteria.

Audits are used to:

- Verify accuracy of financial statements.
- Ensure compliance with laws and regulations.
- Evaluate operational efficiency.
- Identify and manage risks.
- Detect fraudulent activities.
- Provide assurance to stakeholders.
- Ensure quality standards are met.

31. 6 Pillars of Business Value

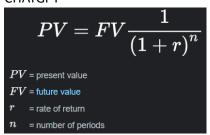
Slides/CHATGPT

- 1. Financial Gain: Direct monetary benefits, impacting revenue and costs.
- 2. **New Customers:** Expansion of client base and potential increase in sales.
- 3. **Social Benefit:** This refers to the positive impact a business has on society or a particular community.
- 4. First to Market: Competitive edge by introducing new products or services before competitors.

- 5. **Improvement:** Enhancements in technology or processes leading to efficiency and quality boosts.
- 6. **Regularization:** Compliance with industry standards and regulations, ensuring ethical conduct and avoiding penalties.

32. Present Value Formula? Why is it used in Project Management?

CHATGPT



Present value is a way of representing the current value of future cash flows, based on the principle that money in the present is worth more than money in the future. PV helps project managers make informed decisions by translating future returns into today's value.

33. List and describe the Communication Management Plan ComponentsCHATGPT

- Choose a Method: Decide on the best tool or platform (e.g., document, spreadsheet, management software) to create and share the plan. Define what information (e.g., project updates, meeting notes) to include.
- **Set Communication Goals:** Collaborate with the team to establish clear communication objectives. Let these goals guide your strategy.
- **Determine Roles:** Outline specific roles within the project (e.g., customers, stakeholders, IT support, project manager) and how each should communicate.
- Identify Communication Channels: Define how team members should convey information (e.g., virtual meetings, emails, group chats) and when to use each method.
- **Organize Technology:** Provide details on the tech tools used for communication, like group chat software, email tools, and project management apps.
- **Set Frequency Expectations:** Indicate when and how often specific communications should occur, such as project updates or daily check-ins.

34. Minimum Business Increment

CHATGPT

A Minimum Business Increment (MBI) is a concept in Agile and Lean product development. It represents the smallest amount of work that, when delivered, provides value to the business, considering both development and deployment costs. In essence, it's the smallest chunk of a project that, once completed, yields a positive return on investment.

35. Describe and differentiate Project Documents, Artefacts and Deliverables CHATGPT

Project Documents are documents created and utilized during the project lifecycle. They provide insights into project status, progress, and planning.

Artifacts are items or documentation that provide evidence of the processes used and decisions made during the project.

Deliverables are tangible or intangible outputs resulting from the project that must be delivered to the client or stakeholder. They represent the end goal or objectives of the project.

In essence, while all three can be documentation or tangible items, project documents guide and inform the project's progress, artifacts capture evidence and history, and deliverables represent the final outputs or results of the project.

36. Types of Communication

Slides

1. Meetings/verbal

- Physical (face to face)
- Virtual (videoconferencing)
- Phone call

2. Digital/electronic media

- Websites and social media
- Instant/text messaging via phone or platform
- Email or fax

3. Physical

- Body language and gestures
- White boards

37. Which traits should a leader possess?

CHATGPT

- **Visionary:** Understands and communicates the project's objectives and aligns the team towards those goals.
- **Decision-Maker:** Able to make informed decisions quickly and efficiently, even under pressure.
- **Good Communicator:** Clearly conveys information, manages expectations, and actively listens to team members and stakeholders.
- **Problem Solver:** Identifies potential issues early on and devises solutions or contingency plans to address them.
- **Empathetic:** Understands and respects the perspectives and emotions of team members, fostering a supportive work environment.
- Adaptable: Flexibly navigates changes or unforeseen challenges that arise during the project.
- **Risk Manager:** Anticipates, assesses, and addresses potential risks to keep the project on track.
- **Time Manager:** Ensures the project stays on schedule, effectively prioritizing tasks and managing resources.

38. Causes of Project Change?

CHATGPT

• **Stakeholder Requests:** Changes requested by stakeholders, sponsors, or key project team members to meet evolving requirements or preferences.

- **Budgetary Constraints:** A change in the available budget can necessitate adjustments in project scope, timelines, or resources.
- **Resource Availability:** Unavailability or changes in key personnel, equipment, or materials can trigger project changes.
- **Technical Challenges:** Unforeseen technical issues or challenges that necessitate a change in approach or method.
- **Risk Realization:** The occurrence of an identified or unidentified risk that impacts the project's course.
- Market or Environmental Factors: External factors such as market shifts, economic changes, or regulatory updates.

39. Why servant leadership instead of authoritarian leadership?

Slides/CHATGPT

Servant leadership is the practice of leading the team by focusing on understanding and addressing the needs and development of team members in order to enable the highest possible team performance.

Why some organizations prefer servant leadership instead of authoritarian:

- Servant leadership promotes teamwork and collaboration, while authoritarian leadership can inhibit open communication and idea sharing.
- By serving and supporting team members, servant leaders boost morale, job satisfaction, and motivation, leading to increased productivity and retention.
- Servant leaders prioritize the needs of their team, fostering an environment of trust. In contrast, authoritarian leaders might generate fear or resentment.
- Servant leadership encourages participatory decision-making, allowing diverse perspectives to be heard, whereas authoritarian leadership often involves top-down decisions.

40. Minimum Viable Product?

Slides

The smallest collection of features that can be included in a product for customers to consider it functional. In Lean methodologies, it can be referred to as "bare bones" or "no frills" functionality.

CHATGPT

A Minimum Viable Product (MVP) is a product version with the least amount of features necessary to satisfy early adopters and gather feedback for further product development. The MVP approach allows teams to quickly test hypotheses, reduce uncertainties, and learn about customer preferences without investing significant resources in full product development.

41. Describe Incremental Delivery

CHATGPT

Incremental delivery is a project management and product development approach where a product or system is developed and delivered in small, manageable segments or increments. Each increment represents a portion of the complete product's functionality and is built upon the previous increments, eventually leading to a complete product.

Full Midterm Simulation – All CHATGPT

1. Distinguish between traditional and agile pm

Traditional project management, often referred to as the Waterfall approach, is characterized by a linear, phase-by-phase progression. It emphasizes detailed upfront planning, fixed requirements, and delivering the final product at the project's end. Changes are managed through formal processes, and risks are primarily assessed and handled at the beginning.

Agile project management is iterative and allows for continuous adjustments. Projects are broken into short cycles called iterations or sprints. Planning is adaptive, requirements can evolve, and parts of the project are delivered frequently, allowing stakeholders to provide feedback regularly. This approach is more collaborative and emphasizes flexibility, responding to changes, and ongoing risk management.

2. What is Scrum?

Scrum is a framework within Agile project management used to develop, deliver, and sustain complex products. It's iterative and incremental in nature and emphasizes collaboration, adaptability, and delivering high-value products quickly. Key features of Scrum include:

• Roles: Three primary roles exist in Scrum:

Product Owner: Responsible for maximizing the product value and setting priorities by managing the product backlog.

Scrum Master: Facilitates the Scrum process, ensures the team adheres to Scrum principles, and works to remove any impediments the team faces.

Development Team: Cross-functional group responsible for delivering potentially releasable increments at the end of each sprint.

• Events: Scrum is defined by specific events/ceremonies:

Sprint: A fixed duration (usually 2-4 weeks) during which specific work is completed and made ready for review.

Daily Scrum: Short, daily meeting (often 15 minutes) where the development team synchronizes activities and plans for the next 24 hours.

Sprint Review: Held at the end of a sprint to present the increment to stakeholders and get feedback.

Sprint Retrospective: Team reflects on the past sprint and identifies opportunities for improvement.

Sprint Planning: Team decides what work will be done in the upcoming sprint.

• Artifacts: Key documents and tools used in Scrum:

Product Backlog: Prioritized list of features, enhancements, and fixes required in the product. **Sprint Backlog:** Subset of items selected from the product backlog for the current sprint plus the plan for completing them.

Increment: The sum of all the product backlog items completed during a sprint combined with the increments of all previous sprints.

3. The pros and cons of traditional project management methodology

Pros:

Structured Approach: It provides a clear sequence of events, ensuring that stakeholders have a clear understanding of what's expected at each phase.

Detailed Documentation: Each phase requires specific documentation before moving to the next, ensuring clarity and reducing ambiguities.

Predictability: Stakeholders know what to expect as the project moves from one phase to the next.

Clear Milestones: Makes it easier to measure progress and assess team productivity. **Fixed Requirements:** Fewer changes mean less potential for scope creep, and budgets and timelines are often more stable.

Cons:

Inflexibility: Changes can be costly or challenging to implement once the project has started. **Longer Delivery Times:** Products or features are not delivered until the end of the project cycle. **Risk of Mismatch:** Since the product is only tested at the end, there's a risk it might not meet the user's needs or expectations.

Delayed Feedback: Stakeholders might only see the end product, limiting opportunities for feedback and course correction during development.

Resource Wastage: If the project is deemed not viable late in the process, a lot of resources might have already been spent.

4. The pros and cons of agile project management methodology

Pros:

Flexibility and Adaptability: Agile allows teams to adapt to changes quickly, ensuring the product remains relevant.

Frequent Feedback Loops: Regular interactions with stakeholders mean continuous feedback, which can be immediately acted upon.

Incremental Delivery: Delivers value to users faster by releasing features incrementally.

Customer-Centered: Focus on user needs and priorities ensures the final product aligns closely with customer requirements.

Improved Risk Management: Regular reviews and iterations allow for early detection and mitigation of issues.

Cons:

Less Predictability: The scope and direction can change frequently, which can be challenging for some stakeholders.

Requires High Customer Involvement: Effective Agile implementation needs continuous customer or stakeholder engagement.

Not Always Suitable: Agile might not be ideal for projects with fixed requirements or those that require substantial upfront planning.

Can be Labor-Intensive: Regular meetings (like daily stand-ups, reviews, and retrospectives) can be seen as time-consuming.

Ambiguous Endpoint: Without a clear final goal, projects can risk continuous evolution without a definitive conclusion.

5. What is Kanban, where is it best to be used?

Kanban is a visual workflow management system that is designed to optimize the flow of tasks and reduce bottlenecks in production processes. The main elements of Kanban are a board and cards. Each card represents a task, and the board visualizes the flow of these tasks from start to finish.

Where is Kanban best used?

Continuous Workflow Processes: Unlike Scrum which works in sprints, Kanban is best for environments with a continuous flow, such as IT support or maintenance tasks.

Teams with Variable Task Priorities: In dynamic environments where priorities can shift rapidly, Kanban allows for easy reprioritization of tasks.

To Visualize Work: It's an effective tool for teams that benefit from a visual representation of work items and their status.

Workload Limitation: Kanban emphasizes limiting work in progress (WIP) which can help teams focus and reduce context switching.

Process Improvement: By highlighting bottlenecks and areas of slowdown, teams can identify and address inefficiencies in their workflow.

6. What is Extreme Programming, and where is it best used?

Extreme Programming (XP) is a software development methodology that emphasizes customer satisfaction, flexibility to changing requirements, and frequent delivery of working software. It promotes a high level of collaboration between developers and stakeholders, continuous feedback, and a set of best practices that aim to produce high-quality software quickly.

Where is Extreme Programming best used?

Rapidly Changing Requirements: XP's iterative approach makes it suitable for projects where requirements can change frequently or aren't fully defined at the outset.

Close Collaboration with Stakeholders: If the customer or main stakeholder can be actively involved throughout the project, providing feedback and clarifications, XP can be highly effective.

High-risk Projects: For projects where quality and reducing defects are crucial, XP's emphasis on testing and continuous integration can be invaluable.

Small to Medium-sized Teams: XP is most effective with smaller teams, typically less than 12 people, because its practices require close collaboration.

Projects that Emphasize Code Quality: The practices of XP, such as pair programming and test-driven development, are geared towards producing high-quality code.