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SDLC – Life Cycle

```
graph TD; RA[Requirement Analysis] --> D[Design]; D --> I[Implementation]; I --> T[Testing]; T --> E[Evolution]; E --> RA;
```

SDLC
Software/System Development
Life Cycle - SDLC

5 / 16



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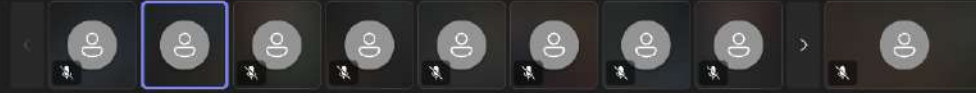
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Waterfall Model

The **waterfall Model** illustrates the software development process in a linear sequential flow. This means that any phase in the development process begins only if the previous phase is complete.

```
graph TD; 1[Requirement Analysis] --> 2[System Design]; 2 --> 3[Implementation]; 3 --> 4[System Testing]; 4 --> 5[System Deployment]; 5 --> 6[System Maintenance];
```

16

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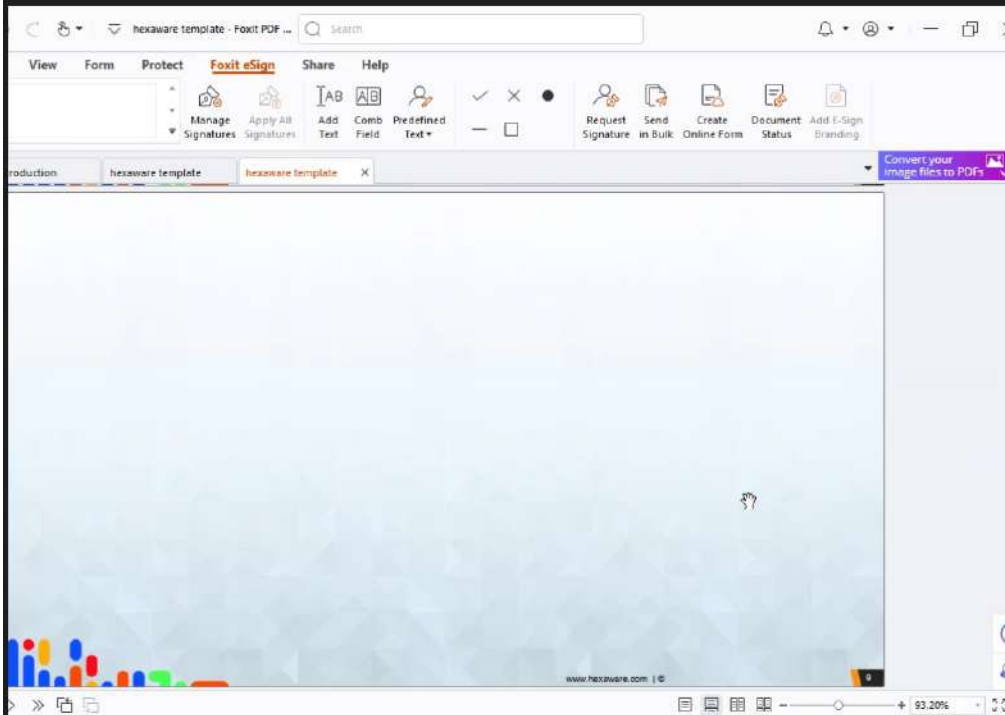
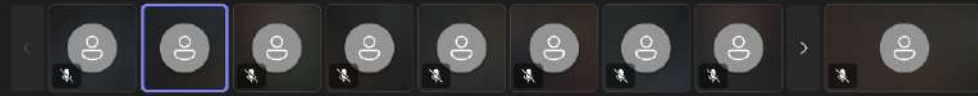
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Iterative & Incremental Model

In this method of software development the product is designed, implemented and tested incrementally (a little more is added each time) until the product is finished.

```
graph LR; subgraph Build1 [Build 1]; D1[Design & Development] --> T1[Testing] --> I1[Implementation]; end; subgraph Build2 [Build 2]; R2[Requirements] --> D2[Design & Development] --> T2[Testing] --> I2[Implementation]; end; subgraph Build3 [Build 3]; D3[Design & Development] --> T3[Testing] --> I3[Implementation]; end;
```

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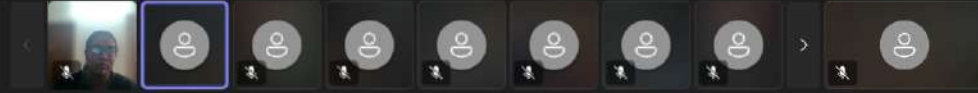
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Waterfall Vs Incremental

S.No	Iterative Waterfall Model	Incremental Model
1	This model is used for implementing, the [12] software product when the requirement is clearly defined.	When there is always a possibility of changing the requirement, we prefer this model.
2	Customers do not interact with the software until the final phase is [13] not accomplished. (customer evaluation after the final stage)	There is a core (baseline) product which is created after each increment. So, the clients are able to take review before executing the final phase (customer evaluation in each increment)
3	The Human resource is dependent on the requirements of clients.	Less human resource is required when the increments are small
4	The Project failure risk will be high.	The Project failure risk will be low.

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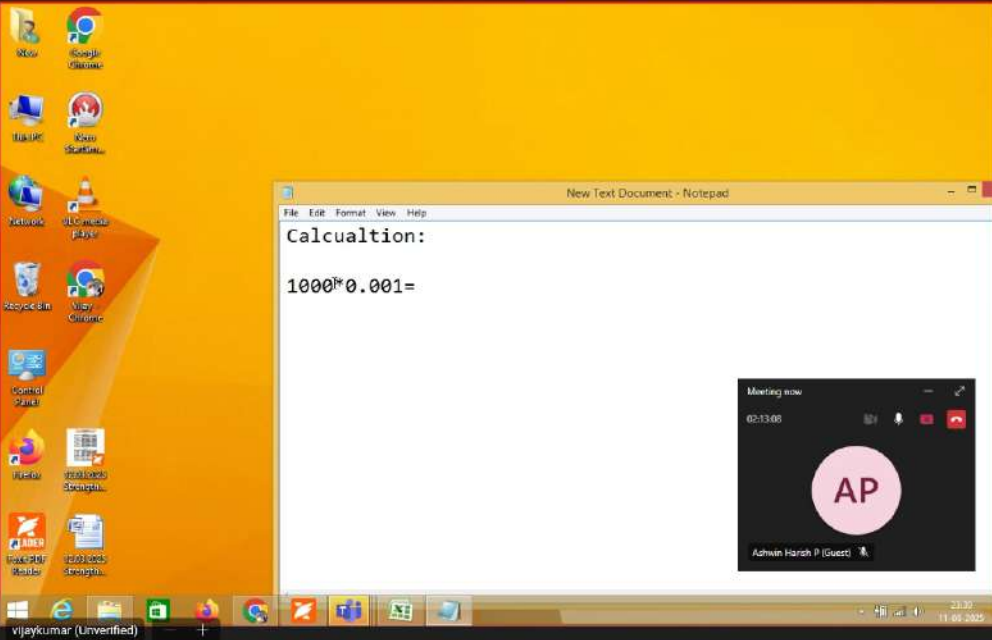
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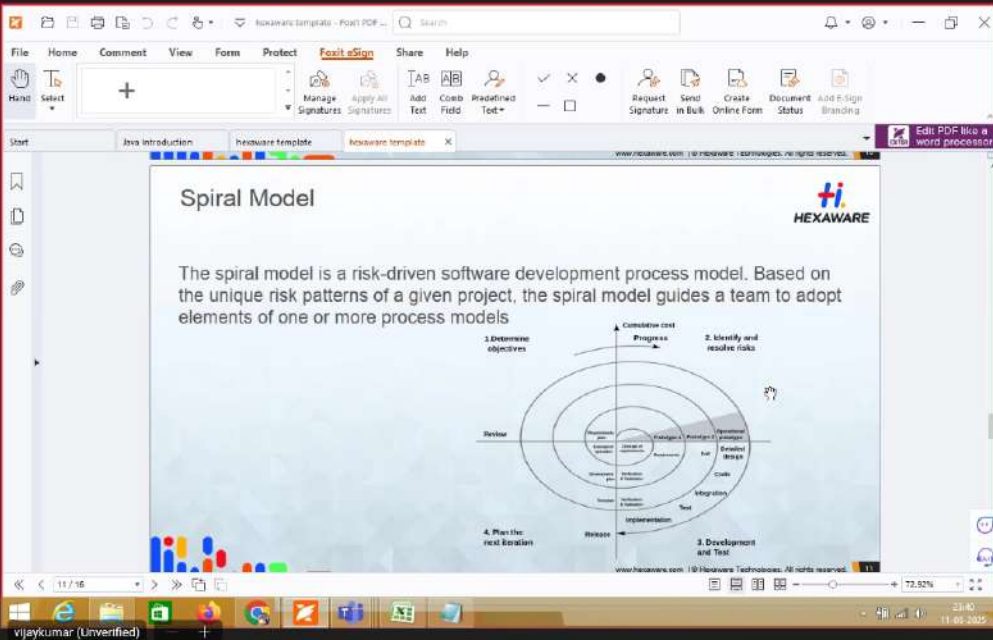
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V-Model

HEXWARE

The V-Model is an extension of the waterfall model and is based on the association of a testing phase for each corresponding development stage. This means that for every single phase in the development cycle, there is a directly associated testing phase.

```
graph TD
    subgraph System_Design [System Design]
        R[Requirements] --> GDS[Generate Design Specification]
        GDS --> DCS[Detailed Design Specification]
    end
    subgraph System_Integration [System Integration]
        ST[Acceptance Testing] --> CT[Component Testing]
        CT --> UT[Unit Test]
    end
    R -- Validation --> ST
    GDS -- Validation --> CT
    DCS -- Validation --> UT
```

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Pros of V modal

- V model is understandable and very easy to use.
- Each phase has definite deliverables.
- Higher possibility of achievement over the waterfall model due to the development of test plans early on during the life cycle.
- Works well for small projects where obligations are simply understood.

Gamification – Waterfalls Vs Agile

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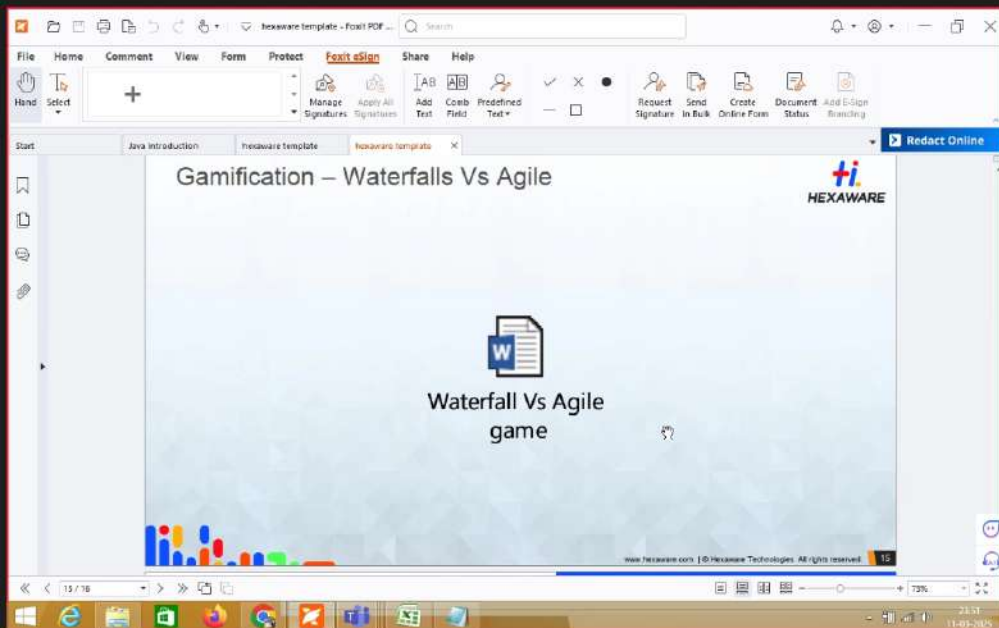
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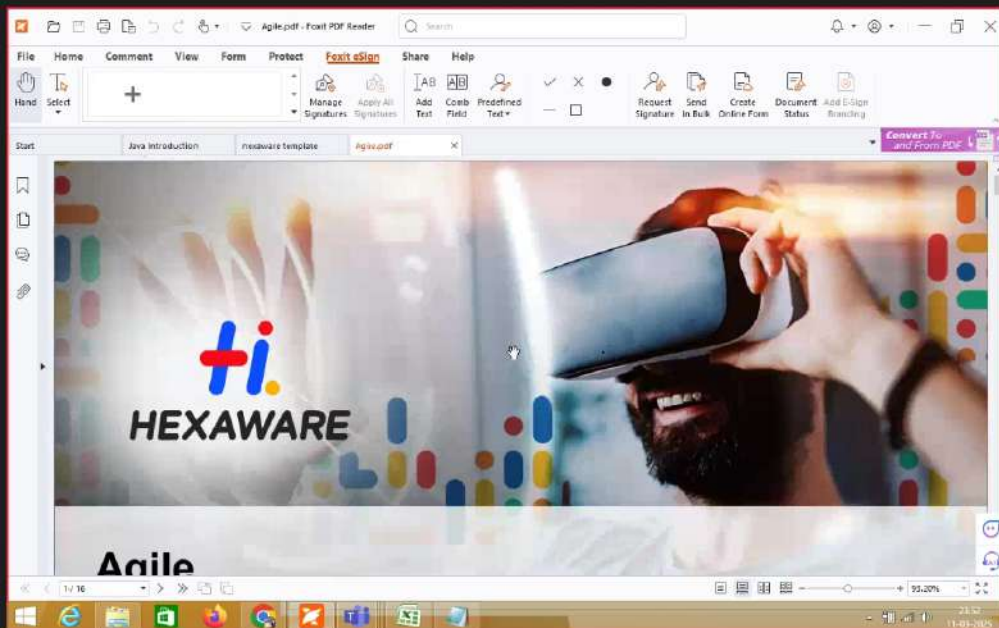
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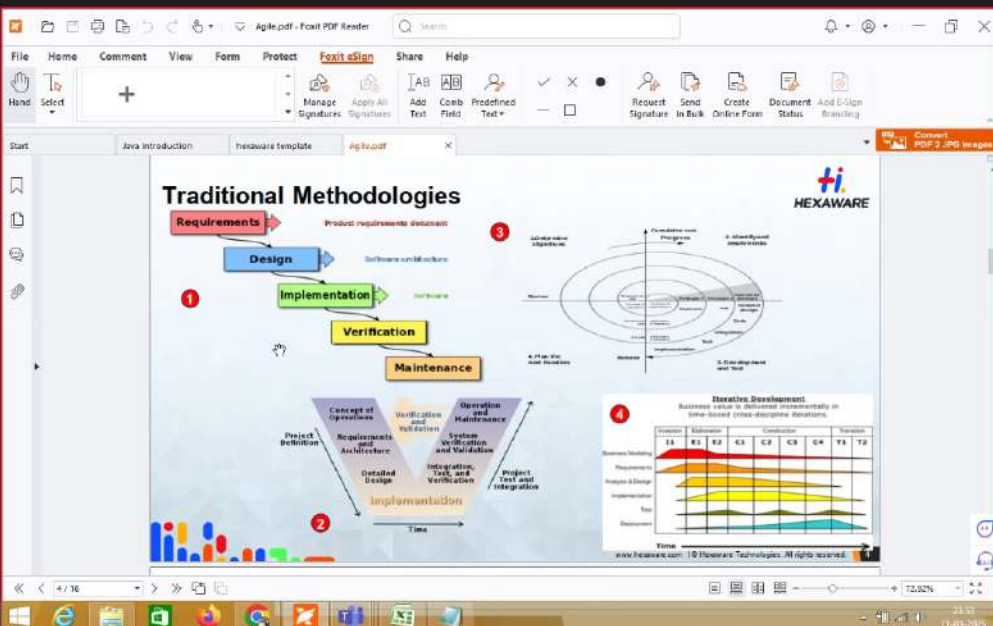
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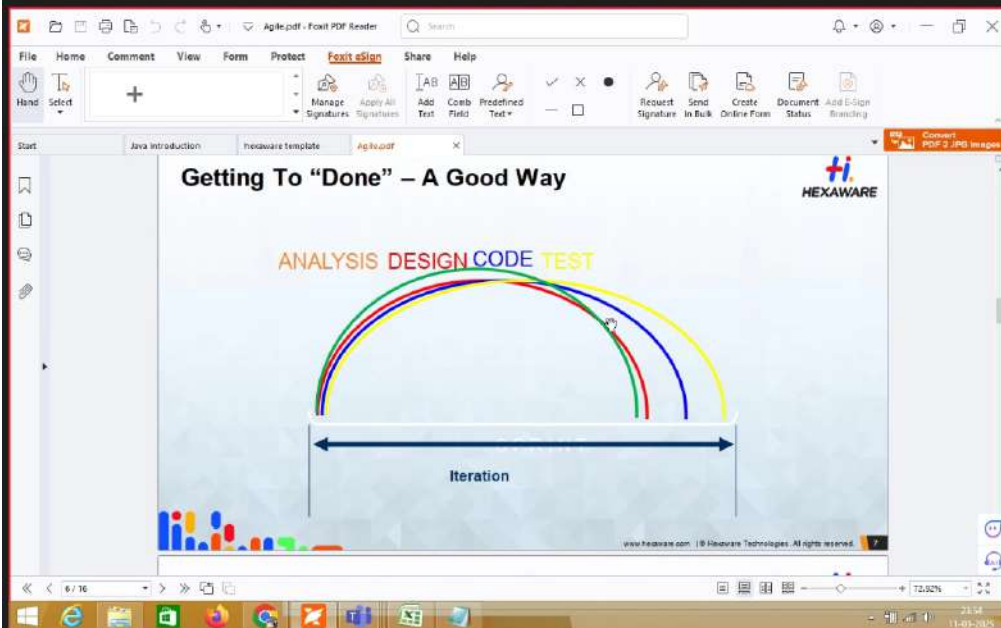
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Phased vs. Agile – Delivering incremental value

HEXWARE

Phased

Initiation → Planning → Execution → Close → Release

Monitor and Control (overlapping with Planning, Execution, and Close)

Agile – Iterative Delivery

Sprint 1 Sprint 2 Sprint 3 Sprint 4 Sprint 5 Sprint 6 Sprint 7 Sprint 8 Sprint 9 Sprint 10 Sprint 11 Sprint 12 Sprint 13

2 wks 2 wks 2 wks 2 wks 2 wks 2 wks 2 wks 2 wks 2 wks 2 wks 2 wks 2 wks

Release #1 Release #2 Release #3

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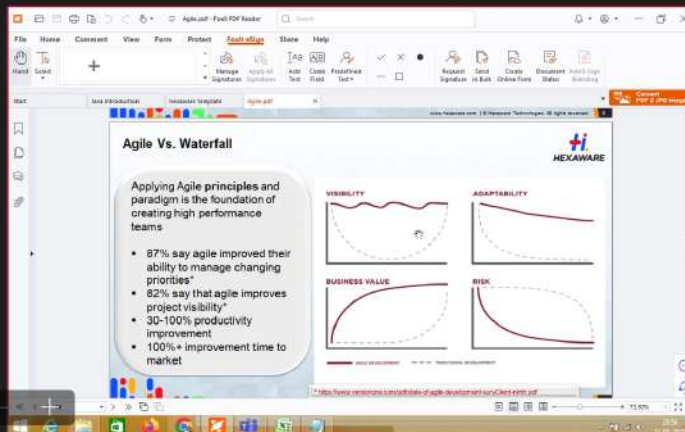
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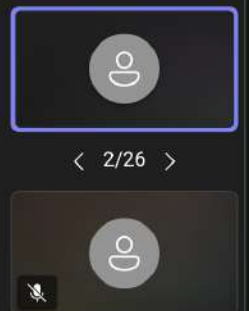
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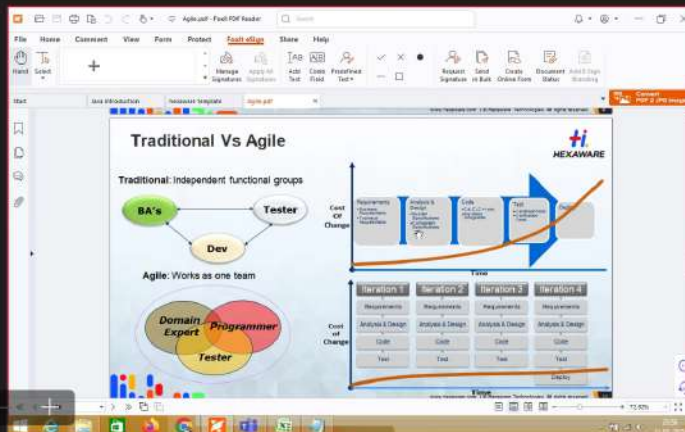
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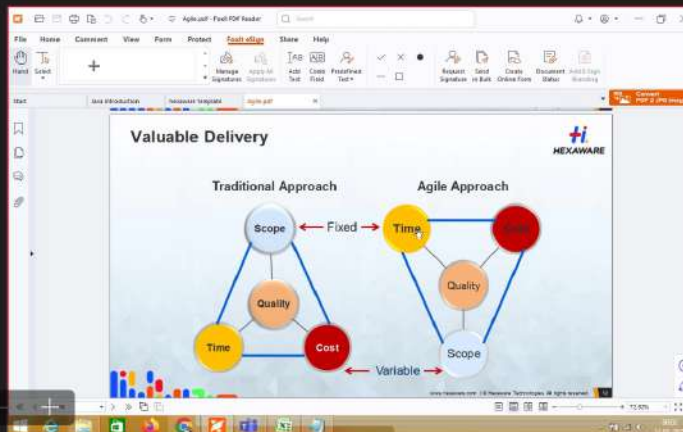
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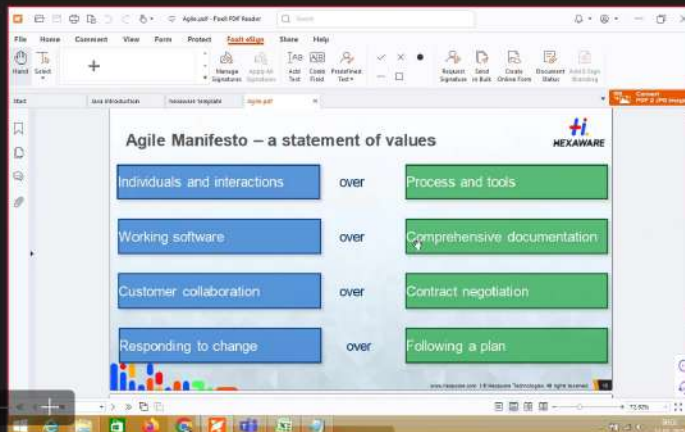
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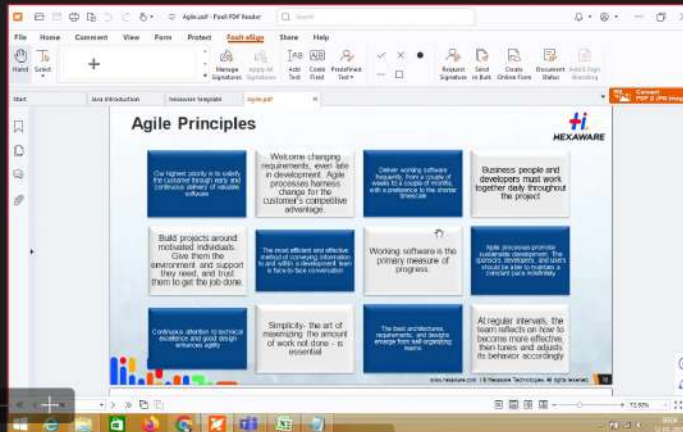
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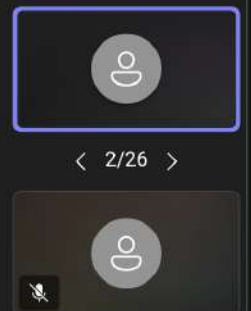
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Agile Advantage

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- No need in long documentation and detailed specification
- Easy adjustment to new requirements
- Process visibility and high interaction between a customer and a team
- Knowledge sharing for making better decisions
- Reduced project development time frames
- Business risks are minimized



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