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Lab 1

1. Describe the process and characteristics of building a house following the waterfall way of working. Describe the advantages and disadvantages of building a house this way

Answer:

* Project manager / Building Engineer
* Analyst / Building Engineer
* Developer / Builder, Building Engineer
* Tester / Builder
* Architect / Building Architecture

A simple example of a Waterfall project is building a house. To build a house, one must first procure land, then build the foundation, then build the walls, then install the kitchen and bathroom appliances, etc.

2. Describe the process and characteristics of building a house following the RUP way of working. Describe the advantages and disadvantages of building a house this way

Answer:

Inception

* Define the scope
* Identify risks
* Develop and evaluate the business case

Elaboration

* Get the main part of the requirements
* Define the architecture
* Check the architecture/ Test

Construction

* Build a house

Transition

* Deploy the house

Advantage : if you want large and luxury house this way is better ☺.

Disadvantage : So many experts need and maybe cost is increased.

3. Describe the process and characteristics of building a house following the SCRUM way of working. Describe the advantages and disadvantages of building a house this way

Answer:

Roles

* Product Owner
* Scrum Master
* Team

Artifacts

* Product backlog
* Sprint backlog
* Burndown charts
* Definition of done

Ceremonies

* Sprint planning
* Sprint review
* Sprint retrospective
* Daily scrum meetring
* Product backlog refinement

Pros of Scrum Methodology. Being Simple. Adaptable. Focused Approach. Maintaining Transparency. Avoids Mistakes. ...

Cons of Scrum Methodology. Meetings. Absence of Team Member. Time Lines. Change in Working Methods.

4. Describe how devops is different from other software development methods. What are the advantages and disadvantages of devops.

Answer:

Pros of DevOps: DevOps makes better collaboration and faster turnaround.

Cons of DevOps: Production environment in the cloud makes an enterprise infrastructure test purposes complex and leads to compatibility issues. In-depth understanding required to handle the integration, infrastructure, and orchestrating the workflow.

5. What kind of projects can be best done using the waterfall way of working? What kind of projects can be best done using the RUP way of working? What kind of projects can be best done using the SCRUM way of working? What kind of projects can be best done using the devops way of working?

Waterfall: Small projects

RUP: I think mobile app’s project

Scrum: Medium and big project

Devops: ERP, big system

6. What are the characteristics of documentation in a software project? How do you think we should document our software system: extended and detailed documentation or only small overview documents. What are the consequences or problems of your choice and how can we manage these problems?

I think need a very good product manager and a scrum master to make a software project successful. I also think that we need to train and lead our clients to avoid including every client's request in the project