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Prototyping Model

What is the prototype model? When is prototype modelling used?

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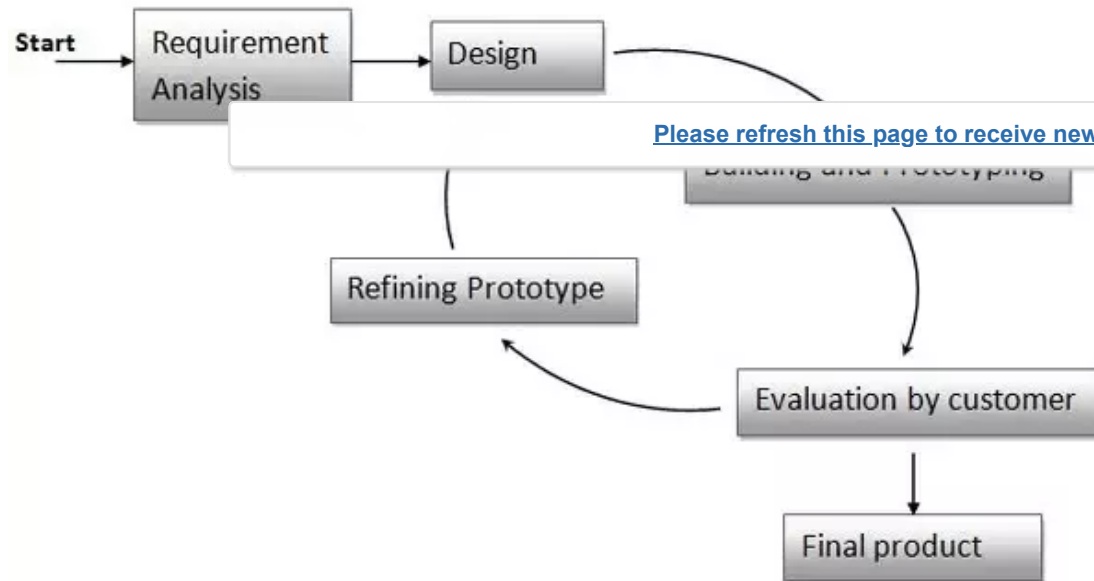What is the difference between waterfall and prototype model?

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Ashwin Dhakal, Author of book "Software Engineering" ISBN:978-9937-0-3279-7
Answered Oct 29, 2017

Better software development model than the waterfall model !

This is what the software developers say and it is.

Prototyping model is the model of software development life cycle where the Iterative process starts with a simple implementation of the software requirements and iteratively enhances the evolving versions until the full system is implemented.

Here is the diagrammatic view of the prototype model.

Start   ┌──────────────┐   ┌──────────┐
        │ Requirement │─────▶│ Design │
        │ Analysis   │   └──────────┘
        └──────────────┘

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Building and Prototyping

Refining Prototype

Evaluation by customer

Final product

Few points to be noted:

1. Here, the developer and client interact to establish the requirements of the software.

2. The essence of prototyping is a quickly designed and can undergo immediate evaluation.

3. Here, the visible elements of the software, the input and the output are designed.

4. The final product of the design through this model is a prototype.

5. After the prototype is developed, the client evaluates the prototype and provides its recommendations and suggestion to the developer.

6. Until the all the user requirements are met, it continues in an iterative manner .

Hence this model accommodates problem of changing requirements.

I have a beautifully articulated article for this :

Advantages, Disadvantages and When to use Prototyping Model ?

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Hope you understood the essence.

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Kruti Niranjan, works at Computer Science Engineering
Answered Mar 17, 2017

Prototype Model:-

The basic idea here is that instead of freezing the requirements before a design or coding can proceed, a throwaway prototype is built to understand the requirements.

This prototype is developed based on the currently known requirements.

By using this prototype, the client can get an "actual feel" of the system, since the interactions with prototype can enable the client to better understand the

requirements of the desired system.

Prototyping is an attractive idea for complicated and large systems for which

there is no manu

requirements.

The prototype are usually not complete systems and many of the details are not built in the prototype.

The goal is to provide a system with overall functionality.

When To Use:

1.when the requirement of customer is unclear and certainly changing at that time prototype model are used.

 2. in this model generally evolved a customer interaction.

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Brian Sheridan, I like to help people develop their prototypes
Answered Oct 5, 2016

Originally Answered: What are the features of prototyping model?

There is no one way to approach but the most efficient way would be to adopt an approach which ~~would incorporate user-centred design of the ???~~

In this approach you begin with a question rather than a solution and you only move on to the next phase when you are confident that you have come up with a real problem that needs to be solved.

You then need to design a solution. You do not start with the most obvious solution. But, you look at the problem from as many perspectives as possible and arrive at the most efficient solution to the problem.

You then need to start the prototyping phase. This will begin with a basic proof of concept. Devise a very basic design which will end up as the basic low fidelity wireframe. This will be done on paper for the most part.

Once you are happy that you have got something to work with you need to move on to a high fidelity prototype. You need a tool such as Fluid UI - Free web and mobile app prototyping   which will allow you to import your basic wireframes. You will then be able to add transitions and come up with a basic screenflow for the solution.

You then need to go through a phase of testing and incremental improvements to the design until you have something that you can bring to a developer.

The fundamental is to keep researching at every phase and keeping testing with users. You do not need a huge number of users, even 5 would be sufficient to give you an indication of how your design is progressing and what changes are necessary.

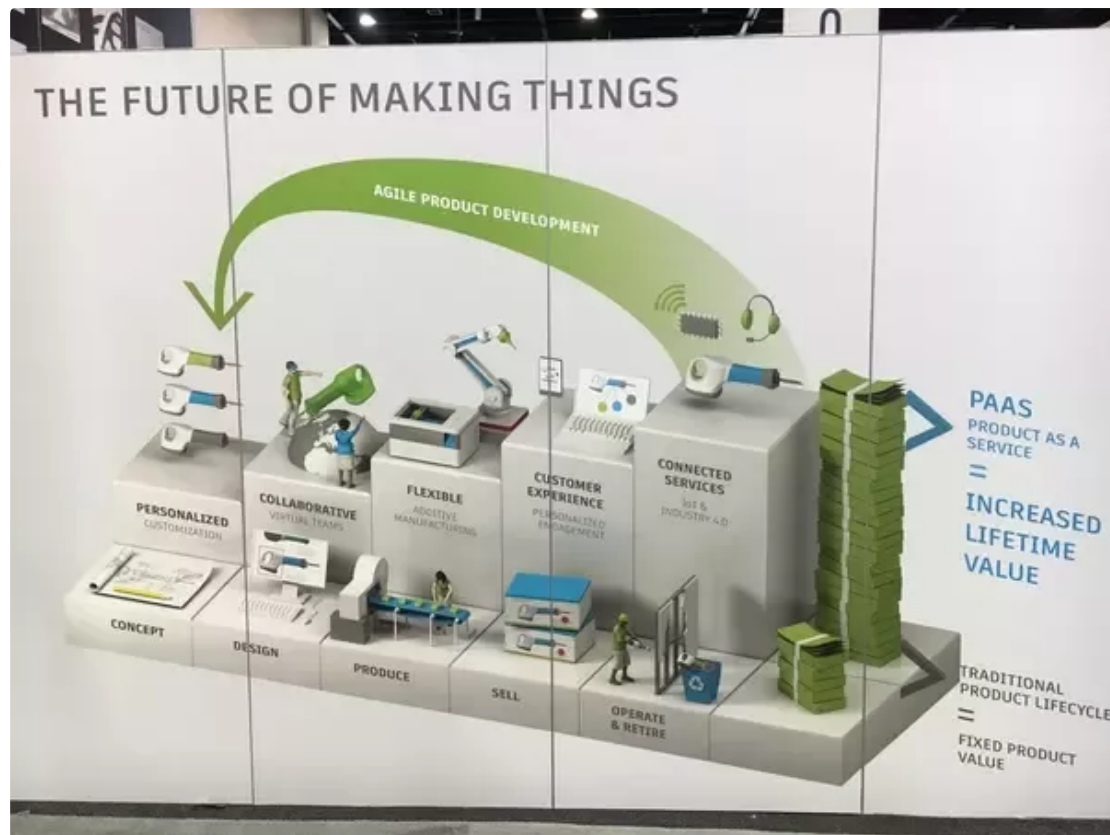661 Views · Answer requested by Jay-Hee Carsona

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Lucas Wang, I help hardware startups develop, manufacture, & bring products to market
Answered Oct 6, 2016

Originally Answered: What are the features of prototyping model?

A graphic says all

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