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Assignment1

B461

1. pick 3 processes and compare/contrast

Linear, Iterative, Evolutionary

1a. how are they similar

They all include the same give major steps in the process flow, communication, planning, modeling, construction, and deployment.

2a. how are they different

They have different flows which means they can be chosen based on the nature of the problem to be solved. Depending on the users, client, market, product, etc - different processes might suit different projects. For example, there is a circular communication and planning flow that takes place during iterative process flow. You could imagine this being the case if you were at a company where a lot of cross-departmental input needs to be taken into consideration and the use cases have complex flows. For example, say you're a staff engineer at a big tech firm, your goal is to design software that the actual employees off say the accounting department use, and you want to seed up their particular workflow. This will require a lot of communication and planning to undercover what their actual wanted UX flow is, what features they need, how they do things now, etc.

Whereas, in the linear process flow, every step has its place before the next one. This might be more common for something like a development shop, where it's a one time deal, and your job is to work through just one product of feature.

1c. according to my research, it's hard to say if the process flows listed are compatible to the four listed here. Naturally with stuff like this there is a lot of word salad fluff clickbait articles from corporate social content initiatives. Went through like 20 pages I can't really tell. So I'm going to say, no it's just these four in this specific context, assuming that things like models described in the following section are not equivalent to flows.

2

a. What type of project can best be suited for this flow? Give an example of the project that can be effectively completed using this process flow.

Note: A real world project example is expected (provide references). Provide a brief summary of the project.

b. Discuss why you chose this project. Highlight why the chosen flow is effective in completing the project. Then discuss this: If you had chosen a different flow, how would that affect the project?

Linear Process Flow

Type of project: outsourced dev shop responsible for delivering a single feature

example project: non-technical people try and outsource an mvp to a dev shop

brief summary: a project management app

why this: because there is a single deliverable, the linear process flow can work.

what changes with different flow: if they had something more evolutionary, like they would with a normal set of designers and engineers working with users to churn out versions based on user feedback, they'd probably be in better shape

Iterative process flow

Type of project: staff engineering

example project: improving accounting department automation

brief summary: accounting dept wants to automate to cut down on manual input from its people

why this: lot of communication and modeling to uncover the actual complex UX flow of these specific departmental functions. As you can see from the circular arrows on the iterative process flow, these arrows means communication and planning are really good

what changes with different flow: different flow, different arrows - big problems. Less communication. Without that circular arrow if your process flow - I mean your communication is going to be in tatters. You're going to have low level employees calling you to tell you about this new thing you should plan for - WAIT JUST KIDDING - they can't call you there's no circular arrow between communication and planning.

Evolutionary Process Flow

Type of project: startup working on an mvp

example project: NFT marketplace

brief summary: 2-sided marketplace to auction digital art NFTs between buyers and sellers

why this: kinda looks like something that might work well with a gitflow workflow where each evolution could fit into semantic versioning devops

what changes with different flow: you can break this down by major, minor, and patch versions and be able to tackle things quickly. Other process flows, FORGET IT.

Parallel Process Flow

Type of project: webapps

example project: a webapp for tutorial based learning for pairs of pair programmers working alongside each other, in parallel

brief summary: edtech site to teach how to pair program on the frontend by coding a wysiwyg parallel gui editor for background vector graphics made up entirely of parallelograms

why this: A generic process model for software engineering encompasses a set of framework and umbrella activities, actions, and work tasks. Each of a variety of process models can be described by a different process flow—a description of how the framework activities, actions, and tasks are organized sequentially and chronologically. Process patterns can be used to solve common problems that are encountered as part of the software process.

what changes with different flow: the arrows are in different order, so depending on which one you pick, you'll have a different flow