SDLC and STLC. Software development methodologies

Assignment

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- Complete the task of the previous level. ✓

- Write detailed answers (0.5-1 pages in volume) to the following two questions:

  In your opinion, why did the Agile manifesto appear?
  What problems did it have to solve and did it succeed?

In my opinion, the Agile manifesto appeared as a new groundbreaking approach to products being successful to directly serve customer's needs and meet their expectations. In the old fashioned ways, the focus has been set on building products in a successful way regardless of the after effects. Now it's about how well it can satisfy customers and how these products are perceived useful and reliable in a more psychological manner.
What I mean by psychological manner, is that in the past we used to have products delivered to us in a solid state, pre-made concepts and use but just in a manufacturing-quality vision.

Nowadays, the tables have turned and the products must adapt to our concepts, needs and use. This change had a great impact on the market and our modern and constantly changing behavior, these products are now, almost, essential to have and use in our daily lives. Compared to the past, pre-made and fixed products were by choice used and required adaptability from customers to their use, as example: a washing machine with physical buttons and preset washing schedule and methods, required its users to adapt their needs strictly to those characteristics. " I have to gather enough clothes that can be washed to 30 degrees temperature and reserve 60 minutes of my time for the washing machine to complete this task."

Agile manifesto contributed to big changes in the companies, with all of its 4 main concepts, and these are:

1. Individuals and interactions over processes and tools - I think the problem that had to be solved in the past, was that a company served fixed products with pre-made concepts and strategies, operations and resources (material, human, knowledge, etc.).
Therefore, companies had teams and member of teams with limited tasks and contributions, probably limited interactions between colleagues, I know I had a small similar experience where I had nothing to discuss or help my colleagues from Sales, just as an example, because I had my limited field of work and they had theirs and we were not contributing together and directly to the whole work's system in collaboration, just individually.

2. Customer collaboration over contract negotiation - As we discussed in the course today, I understood that nowadays a product's customer can act as a contributor to the product development. It leads to a broad opportunity to change, enhance and deliver greater quality of the desired product. I imagine in the old days, a company didn't bring a product owner to actively participate with the whole development and testing team to brainstorm ideas? I can guess it could have been done by statistics, customer review, market research.., etc. but this is just a simple example I could think of for now. So the interactions were also limited to contract negotiations, budgets, etc. I can pair this value with the first one above.

3. Working software over comprehensive documentation - If my washing machine example can be relatable to this subject 🥲 , I would say that we are no longer constrained to understand a product's use and documentation completely, but rather we have a working product that could adapt to our environment and decisions better. I recall from our course today, that if the documentation isn't well written and is validated forward to implementation, then the software can have some flaws as well. It's true that a working software shouldn't be 100% over its comprehensive documentation but I see that when it is done well, the results are satisfying customer's expectation and since Agile is flexible to changes, the software can be fixed anytime and as soon as a flaw is found.

4. Responding to change over following a plan - I relate this value to the above ones..

To finish, I regard all of the problems listed above as successful and solved, the results are clear and everyone benefits from them: industries, companies, employees, products and customers, etc. We're already going through this era of fast changes, updates, better human interactions and continuous adaptation.