THE AGILE-SCRUM APPROACH

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CS250

WATERFALL APPROACH

WATERFALL

Analysis
Design
Implementation
Testing
Maintenance
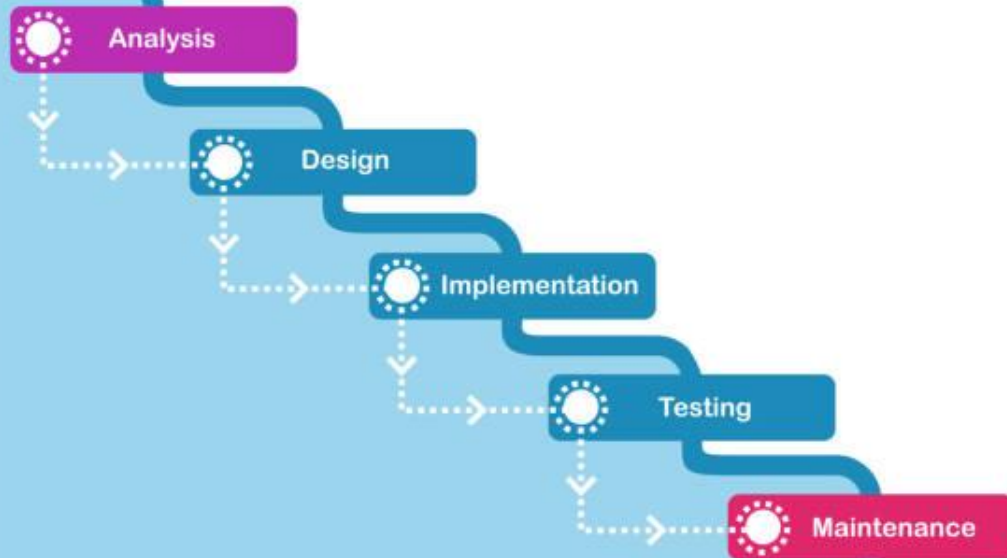
- To understand agile, it's important to look at a different mythology in the waterfall method

- This approach implements the bulk of its planning during the beginning of the project

- It was designed to eliminate costs further down the line of development

- But in doing so this generates greater cost to alter projects due to unforeseen problems

SCRUM

- In a scrum project, pieces of the project are developed incrementally accroding to when items for a feature are due

- This makes changing the actual workings of the project to meet changing demands in the project

- And unlike in Waterfall, communication is constantly happening between customer, owner and developers

Scrum Framework

Product Backlog → Sprint Backlog → 24 Hours / 2-4 Weeks → Potentially shipable Product Increment
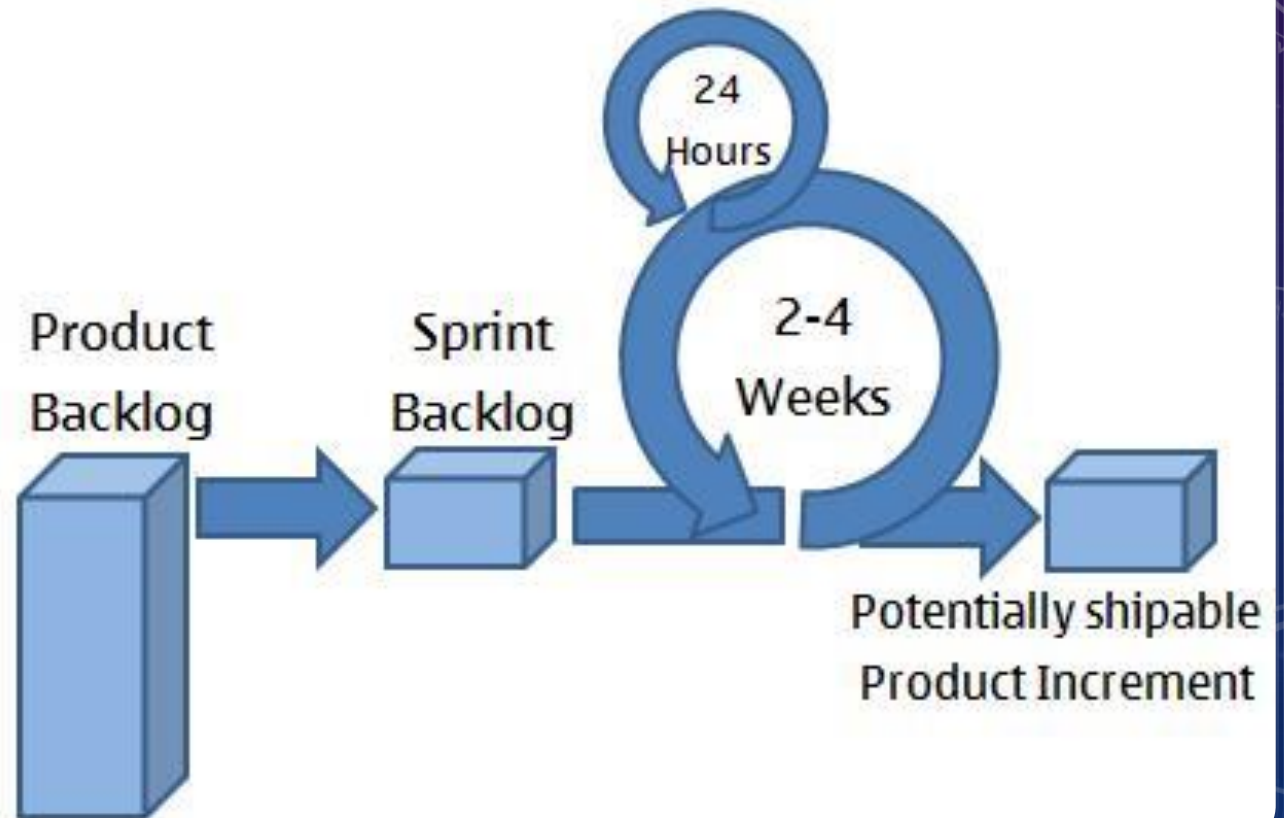
PRODUCT OWNER
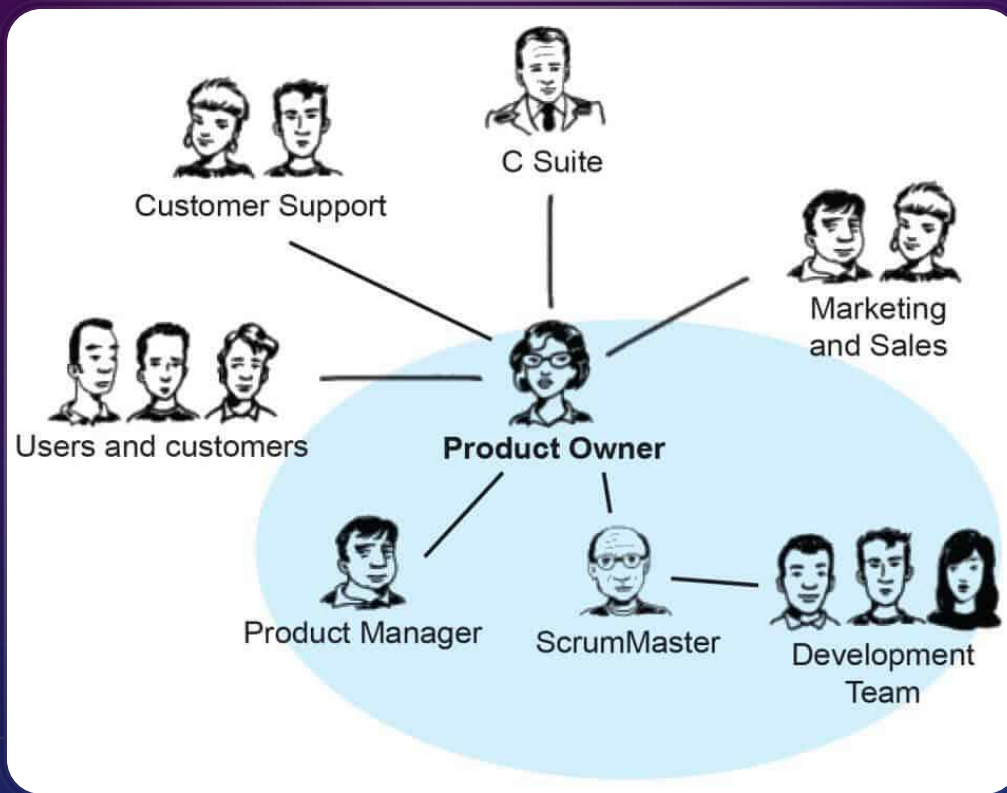
- Communicate with customers and produce user stories

- Manage product backlog and order work accordingly

- Regular face to face time with customers/users

- Has Face to Face meetings creating user stories for backlog

TESTER

- Provides continuous testing rather than just testing at the end

- Ensures Quality in team product

- Focus on user stories/customer needs rather than product specifications

- Creates test to provide constant updates in the program when new requirements are needed

- Works from beginning of project as appose to just the end like in waterfall methology

SCRUM MASTER

- Facilitate teams daily standup and other team regular team meetings

- Helps development team with deal with obstacles that arise during development

- Works towards working as more of a mentor that a leader to their team

DEVELOPER

- Attends all daily stand ups on time and sprint planning communicates needs clearly

- Communicates with rest of the team to ensure all features are being developed according to specs

- Detailed oriented and focused on user needs

- Develops product features for final program

AGILE-SCRUM VS. WATERFALL

When deciding which approach is right for a project it's important to consider the needs of the project. The waterfall method is best suited for project like automotive factory. Where you supply and demands needs will be predetermined and production should flow one direction.

The agile-scrum approach is far better suited for programming or any user-based service. The approach gives far more flexible and room to adapt to new situations. And the entire team from user to developer are in constant contact with each other, so the real needs of the project are addressed and not a bunch of frills and extra features the user has no need for.