Ways to manage *Technical debt*

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Research and the Root cause analysis

Identify indicators of debt, calculate the time required to pay it off, and devise a strategy.

Establish coding standards

Coding standards should be established to ensure that coding is accurate, consistent, and maintainable. Best practices such as using common conventions (names, formats, etc.), coding styles, and commenting on code can be enforced.

Firstly, create the essential features.

Identify which areas require attention and prioritize them based on prospective risks and benefits. This allows you to prioritize high-priority regions first and take preventative actions for those that do not pose a high immediate threat.

Document the code properly

Code documentation is helpful in many ways. Proper naming, comments, README file speaks a lot.

Implement early code freezes

Code freezes are the practice of freezing a version of a project’s code base, preventing any further changes from being made to it.

Write automated tests and refactor the code

Automation allows us to test rapidly, and code refactoring allows us to have cleaner code by eliminating redundancy and optimizing the code.

Using branching when required

Branching enables you to work on the same source at the same time without interfering with one another. This keeps errors and mistakes out of the main source and enables more regulated and coordinated procedures.

Perform code reviews and versioning

Code reviews ensure that code is well-written, readable, efficient, and bug-free. Peer reviews can help in code optimization. Versioning enables you to readily comprehend and compare different versions of a software program.

Select scalable and expandable architecture

Scalable and extensible architecture is intended to manage rising volumes of traffic, data, and processes while enabling future system growth.

Test early in the development process

Testing early in the development process is critical to ensure that any problems are identified and resolved as soon as possible. Early testing also aids in identifying flaws and allows the team to swiftly take corrective action.

"Chaos and debt are not just negative terms; they can deliver excellent outcomes to your business if you are clever enough to capitalize on the opportunities and plan perfectly."

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