    Explain how the quality of the software engineering process can affect the quality of software that is produced.

The quality of the software engineering process is directly related to the quality of software produced. I am fortunate to work with a lot of really smart software engineers who enjoy discussing design concepts.

One of the reasons poorly designed software occurs, even among highly skilled developers, is that non-technical management communicate unrealistic delivery times to clients. These unrealistic delivery dates do not always allow time for well thought-out designs.

In order to meet deadlines, software is built that meet requirements and pass the tests. However, problems arise when the customer comes back with additional requests for new features or functionality. Now the developers are left with recreating software to meet new functionality, collecting “technical debt”.

“**Technical debt**… is a concept in software development that reflects the implied cost of additional rework caused by choosing an easy solution now instead of using a better approach that would take longer.” https://en.wikipedia.org/wiki/Technical\_debt

When this scenario occurs repeatedly, software can become “brittle” and susceptible to errors. If the software engineers had been given enough information and time to properly design a good model, they could have anticipated requests for additional features and changes. In the end, the software engineers could have built code with smaller technical debt, faster turnaround times, and fewer bugs.