

MY ARCHI SOLUTION

This is my current approach to send the requirements and design to developers for implementation.

But I would approach this a little differently if this is my daily job. And I will explain how in the last section.

MY SOLUTION (NOW)

Assumptions

- Developer has the skills to perform the task.
- Developers have access to business or architects and are able to ask questions.
- Developers have some skills related to a clean coding approach.

Design Document

The design document will have these basic sections to explain the idea and the general design down to the class level.

- **Use Case Diagram**: Just explains the general idea
- **Components and Classes** : The proposed classes , models and components needs to be created or used in the implementation.
- **Data** : some sample data must be included or the source is mentioned, this is to use for implementation and testing
- **Testing**: Some information about the testing approach and scenarios needs to be considered (not everything)

Please read the [Tool Rental Design Document](#)

Implementation

ProcessComponent > process is what processes data
Tests in ProcessComponentTests and CalendarUtilTest

BETTER SOLUTION (FUTURE)

Just thinking about the big picture here and sharing my opinion.

The company should have set standards for architecture and that include standard diagrams that the architecture team decides. Some kind of a modified version of UML diagrams.

For any diagrams we use as architects , we should not be over designing everything with details, to avoid the high cost of maintaining designs.

Architects should conduct training for the developers to educate them about our diagrams and designs to make our communication clear on paper and always listen to feedback and improve.

The same way additional trainings should also talk about the quality of code and standards for better performance and cleaner code. If developers know how to code with high standards, then architects do not need to design down to the function level and will improve the process drastically .

So, my design in the future will be based on the standards architecture team decided and handed to quality engineers trained to write clean code. Also my design document will include links to best practices and internal standards links to read.

Conclusion

Thanks for the opportunity :) .. I really enjoyed working on this.