**Condo Management Web Application: A Collaborative Journey Through Challenges**

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# **Introduction**

In this postmortem, we reflect on our journey of developing a web application aimed at simplifying condo management. Our team embarked on this project with high hopes, aiming to leverage modern technology to address the complexities of condo management. Utilizing a range of tools and architectural practices, we aimed to create a robust solution that meets the diverse needs of condo managers and residents alike. Despite facing challenges along the way, we are happy with what we have achieved and the lessons we have learned.

# What went wrong?

1. **Domain Model Refactoring:**

The need to refactor our domain model multiple times presented considerable challenges:

* Each refactoring necessitated widespread changes across the codebase, increasing the risk of introducing bugs.
* It diverted resources away from feature development and bug fixes, affecting our overall project timeline.
* Adapting to changing requirements while maintaining code quality and project momentum required careful management and additional testing cycles.

1. **Backend Complexity vs. Frontend Test Coverage:**

The advanced complexity of the backend compared to the frontend presented unique challenges, particularly in achieving our goal of 80% test coverage. The sophisticated logic and data handling required in the backend made it difficult to ensure comprehensive testing, highlighting a need for enhanced strategies in test planning and execution.

1. **Challenges with Mobile App Development**

Different Styling Requirements: The mobile app required a distinct approach to styling compared to the web version. The need to adapt layouts, fonts, and interaction elements for smaller screens introduced complexities that were not initially anticipated.

What went right?

1. **Effective Communication:**Despite the challenges, our team maintained a strong emphasis on communication. Members were supportive, frequently stepping in to assist with tasks outside their assigned responsibilities, fostering a collaborative team environment.
2. **Completion of All Planned User Stories:**

A significant achievement for our team was the ability to complete all user stories planned for the sprint without needing to push any to the next sprint. This success demonstrates our effective planning, estimation, and execution capabilities, ensuring that we met our project goals within the set timeframe.

1. **Adherence to Agile Methodologies:**Our commitment to agile practices allowed us to adapt quickly to changes and feedback, ensuring continuous improvement in our development process.
2. **Effective Use of Tools:**Utilizing collaboration and project management tools effectively helped in keeping the team organized and on track, despite remote working conditions.
3. **High-Quality Code Standards:**The team maintained high standards of code quality through peer reviews and adopting best coding practices, which significantly reduced bugs in the final product.
4. **Successful Stakeholder Engagement:**Regular updates and feedback sessions with the user ensured that the project remained aligned with user needs and expectations.

# **Conclusion**

In this sprint, we navigated through challenges such as multiple domain model refactoring, achieving test coverage due to backend complexity and complexity for mobile app development. Despite these, our strengths in communication, completing all planned user stories, adhering to agile methodologies, utilizing tools effectively, maintaining high code quality, and engaging stakeholders played a pivotal role in our success.