

# Project Retrospective

## Project 2: Pitest IDE Plugin (PIT MutationMate)

Dear Future AMOS Teams,

We are excited to share our experience from our PIT MutationMate project, which at the beginning, felt overwhelming since we had to adjust to an agile way of working (Scrum). Initial hurdles included team coordination and time management in our first experience within a larger group setting. Fortunately, the presence of team members with prior involvement in AMOS projects proved to be invaluable. Their collective experience greatly facilitated collaboration, enhancing the overall effectiveness of our team endeavors.

Over time, we grew accustomed to working together as a team. Each week, our understanding of the project deepened gradually. Adapting Scrum principles notably enhanced our teamwork, time management, and task allocation. Despite facing challenges and juggling academic responsibilities, we swiftly unified as a cohesive unit. It was great to witness our collective efforts yielding significant progress.

Reflecting on our achievements, we take pride in what we've accomplished, driven by effective collaboration and ongoing communication. We recognized the importance of staying connected, leveraging tools like Github's pull requests and comments to enhance our workflow and productivity.

Key lessons from developing our MutationMate plugin include the necessity of a thorough understanding of requirements from the start, strategic planning before execution, and early task completion to allow developers to review them.

For future teams, we recommend early and regular contact with industry partners as this helped to find flaws in our understanding and helped us understand the technological details.

Furthermore, create solid communication channels (discord, slack, teams,...) and use them, since this greatly improves communication within the team. Identify specific skills of individual members and use them to your advantage.

Do copilotting sessions, especially when there are parts of the project you don't fully grasp. Don't wait for certain parts of the project to become too much of a black box for you and understand the importance of early and continuous testing.

We appreciate the insights and learnings we gained at the project's successful completion.

Warm regard,  
The PIT MutationMate Team