

# Assignment 5: Quality Attributes and Architecture

July 2025

## Project Information

- **Project Title:** Workshops Check-in for InNoHassle
- **Customer:** InNoHassle Team
- **Team Members:**
  - Insaf Garifullin – Team Lead, completed the assignment
  - Evgenii Moskal – Frontend Developer, added the white theme
  - Kirill Karaev – Frontend Developer, fixed bugs
  - Khasan Sadykov – Backend Developer, created docs
  - Ilnur Ramazanov – Backend Developer, add features in backend
  - Ranis Haertdinov – Designer, created design for MVP-2 presentation

## Sprint 5 Summary

### Sprint Planning and Tracking

- **Backlog:** <https://github.com/orgs/InNoHassle-Workshops-Check-In/projects/3/views/1>
- **Sprint 5 Milestone:** <https://github.com/orgs/InNoHassle-Workshops-Check-In/projects/3/views/12>
- **Sprint Tracking Table:** [https://docs.google.com/spreadsheets/d/18V\\_vwoLqsRdk-1E1lkW2h/edit?gid=320016309#gid=320016309](https://docs.google.com/spreadsheets/d/18V_vwoLqsRdk-1E1lkW2h/edit?gid=320016309#gid=320016309)

### Scrum Activities

- Groomed backlog and created milestone.
- Sprint review and retrospective completed.
- Updated sprint tracking table.

## Documentation

- Readme link: <https://github.com/InNoHassle-Workshops-Check-In/backend/blob/main/README.md>
- Roadmap table: <https://docs.google.com/spreadsheets/d/1C27XIgzJ75mmq0Xzq1ycXgp0WCovf/edit?usp=sharing>

## Quality Assurance

- Link to the commit with tests: <https://github.com/InNoHassle-Workshops-Check-In/backend/commit/c0826586c99d4fff506f9000b76e4df95ce4c380#diff-2b050ad656ec98504477e4>
- **Main Findings:** We conducted tests on the main endpoints implemented in our FastAPI backend. The tested endpoints include:
  - Checking into a workshop
  - Adding a new workshop
  - Editing existing workshops
  - Retrieving the list of workshops

All endpoints responded correctly during testing and met the functional requirements. Minor bugs discovered earlier (e.g., during editing) have been addressed.

- **Performance Result – Dynamic View Scenario:** For the dynamic view scenario, we tested a full workflow involving a user checking into an existing workshop. This request triggered multiple components across the frontend and backend.

*Average execution time:* **420ms** in the production environment.

This result is within acceptable limits for the expected user load, indicating that the system performs well in real usage conditions.

## Build and Deployment

- CI Pipeline: <https://github.com/InNoHassle-Workshops-Check-In/backend/actions/runs/1606923323>
- CD Pipeline: <https://github.com/InNoHassle-Workshops-Check-In/backend/actions/runs/15959758627/job/45010664929>

## Git Workflow Evidence

- Issues Created and Resolved: <https://github.com/InNoHassle-Workshops-Check-In/backend/issues/42>; <https://github.com/InNoHassle-Workshops-Check-In/backend/issues/29>
- Pull Requests Reviewed and Merged: <https://github.com/InNoHassle-Workshops-Check-In/backend/pull/41>; <https://github.com/InNoHassle-Workshops-Check-In/backend/pull/40>

## AI Usage

- ChatGPT was used to create overleaf template

## Retrospective

- **What went well:** We worked well as a team and successfully implemented a new feature. Development and collaboration were smooth, and we made consistent progress throughout the sprint.
- **What can be improved:** We can improve our usage of the sprint boards by updating them more regularly and aligning tasks more clearly with their corresponding stages.
- **Team collaboration summary:** Overall, the team collaborated effectively. Communication was strong, and everyone contributed actively to achieving the sprint goals.
- **Customer interaction reflection:** The customer reviewed our application and expressed satisfaction with the current state. They mentioned that the product could be deployed after some additional refinements, indicating that we are on the right track.