

Team 5 - Sprint 7 Review Report

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What Was Accomplished in Sprint 7:

- **User Acceptance Test (UAT) plan updated** to reflect the latest development progress.
 - **12 UAT test cases** created based on the product backlog.
 - **UAT testing executed:**
 - 10 tests **passed successfully**.
 - 2 tests **failed** and documented for fixes.
 - **Test results recorded** systematically in an Excel tracking sheet.
 - **Heuristic Evaluation** performed:
 - Identified usability issues and areas for improvement.
 - Compiled findings into a structured report with actionable suggestions.
 - **Codebase cleanup completed:**
 - Final SonarQube and Checkstyle checks passed.
 - Code is stable and ready for final sprint and UAT completion.
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Highlights:

- UAT Tests: 83% Passed (10/12), 17% Failed (2/12).
 - Heuristic Evaluation Report finalized, highlighting 18 key usability findings.
 - SonarQube & Checkstyle checks completed — Codebase is clean and ready for production testing.
 - Test documentation and bug reports shared with development team for next actions.
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Covered User Stories:

- As a QA engineer, I want to update the User Acceptance Test (UAT) plan, so that we can align testing with the latest development progress.
- As a QA tester, I want to design 12 functional test cases based on the initial product backlog so that we can evaluate system behavior under real user scenarios.
- As a team member, I want to document the results of test executions in an Excel spreadsheet so that we can track outcomes and identify areas needing fixes.

- As a QA lead, I want to compile a report summarizing test results, discovered bugs, and their severity so that we can prepare for the final sprint.
- As a QA engineer, we want to conduct a heuristic evaluation, so that we can identify usability issues and recommend improvements.
- As a development team, we have completed SonarQube and Checkstyle checks, so that our codebase is clean and ready for UAT testing.

UAT Test Results:

Test Case	Result
Verify that users can browse books with filters	Passed
Ensure users can reserve books	Passed
Extend a book reservation	Passed
Notification generated when book is reserved	Passed
Reminder notification before due date	Passed
Language switching available	Passed
Guests cannot reserve books	Passed
Book is already reserved by someone else	Passed
Ensure both student and teacher roles can use features	Passed
Ensure that the student cannot reserve more than 5 books.	Passed
2 users reserving same book simultaneously	Failed
Session timeout does not redirect to login page	Failed

Heuristic Evaluation Summary:

Strengths:

- Consistent UI with standard button and label styles.
- Localization implemented for user-friendliness.
- Visual feedback (notifications) provided for actions.

Identified Usability Issues (examples):

- Session timeout leads to stale screen without a redirect.
- “Invalid Token” message is vague — needs actionable feedback.

- Lack of "Cancel" buttons after accidental clicks.
- Navigation after using search filters is tedious.
- No keyboard shortcuts for power users.
- Missing help section or tooltips for user guidance.
- Users must re-login every time — no "Remember Me" option.

Suggested Improvements:

- Implement European date format.
 - Show auto-logout alert with options to re-login.
 - Add confirmation modals for important actions (reserve/return/extend).
 - Improve error messaging for session expiration.
 - Introduce help sections and tooltips.
 - Lock book IDs to prevent double-booking.
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Sprint Success Measurement:

- **Task Completion:** 100% of planned Jira tasks either completed or in progress.
 - **Time Tracking:** Updated time logs submitted by all team members.
 - **Sprint Backlog Status:**
 - Completed User Stories: 6
 - No stories postponed.
 - **Obstacles Identified:**
 - Handling simultaneous book reservations needs backend locking mechanism (to be addressed in Sprint 8).
 - Session timeout handling improvement required.
 - **User Feedback Integration:**
 - Feedback from UAT and heuristic evaluation incorporated into Sprint 8 planning.
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Useful Links:

- [Jira Board](#)
- [Project Plan](#)
- [Product Vision](#)
- [Figma UI Blueprint/Prototype](#)

- [GitHub Repository](#)
- [Time Tracking Sheet](#)