Group 1 – Sprint 6 Planning Report

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Sprint 6 Goals

- Extend localization support to the database layer.
- Conduct a static code analysis to identify and fix code quality issues.
- Improve overall code quality and maintainability based on analysis results.
- Prepare for project acceptance by planning and defining acceptance tests.
- Update system design artifacts, including ER Diagrams and UML models.

Sprint Duration

- 2 weeks

Planned Tasks

1. Database Localization
- Design and implement a localization strategy for database content.
- Develop and document database localization plan and implementation details.
- Add documentation of chosen localization method to the project's GitHub README.

2. Statistical Code Review
- Conduct a static code analysis using tools such as ESLint, SonarQube / SonarCloud, and Jest coverage reports.
- Identify code violations, complexity issues, redundant logic, and potential bugs.
- Document all findings, metrics, and corrective actions.

3. Code Clean-Up and Refactoring
- Improve codespace for better readability and maintainability.
- Split large and complex functions into smaller reusable components.
- Remove redundant or duplicate code segments.
- Re-run unit tests to ensure stability after refactoring.
- Ensure 100% unit test pass successfully.

4. Acceptance Test Planning
- Define clear and measurable acceptance criteria for key system features.
- Design acceptance tests, including functional and usability testing.
- Prepare example test cases with expected outcomes.

5. Architecture Design Documentation
- Update all ER Diagrams and UML models, and related architectural documentation.
- Add updated design artifacts and diagrams to the GitHub repository.

Sprint Success Measurement

- **Task Completion:** Ensure all Jira board tasks are categorized correctly (To Do, In Progress, Done)
- **Sprint Backlog Status:** Monitor progress of planned user stories (Completed user stories, In-progress user stories, Postponed user stories)
- **Obstacle Identification:** Document any challenges faced and outline solutions or pending issues.

Links:

Project Jira
https://rikukaartoaho-1755679798806.atlassian.net/jira/software/projects/SCRUM/boards/1/backlog

Project Plan

https://github.com/vickneee/SEP-R1/blob/main/documents/design/SEP1-ProjectPlanRyhm%C3%A41.pdf

Project Vision

https://github.com/vickneee/SEP-R1/blob/main/documents/design/SEP1-ProjectVisionRyhm%C3%A41.pdf

Figma UI Prototyping https://www.figma.com/design/pzKWLdwl0qDaUedtmmVdAp/Library-System-Design?nodeid=0-1&p=f&m=draw

Project repository

https://github.com/vickneee/SEP-R1