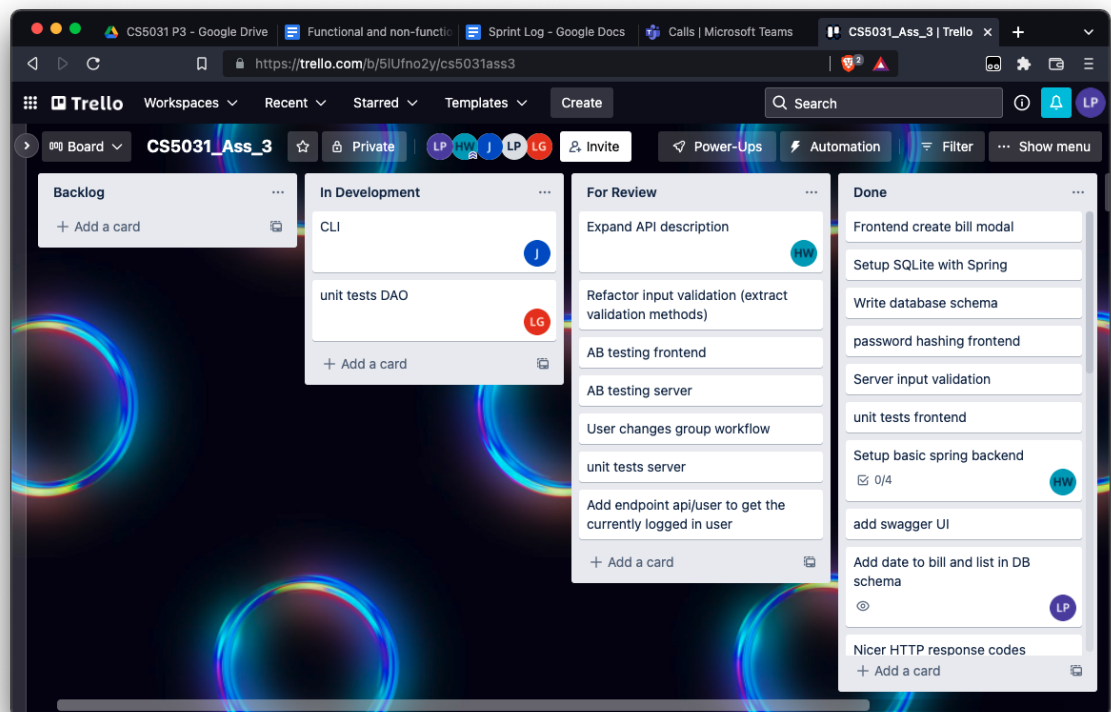


Development Process Documentation

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Notes

- Sprint log contains rough outline of sprint cycles, the to-dos of each cycle, and the review of previous to-dos
- Meetings were (almost exclusively) held on Teams
- Work allocation and ad-hoc communication was done on Teams
- Backlog and granular todos were managed on Trello:



Requirements

Functional requirements

- User shall have their own account to which they can login repeatedly
- Users shall be able to create their account themselves
- Users shall be able to create groups that correspond to their flats
- Users shall be able to see all bills in their group, the bills outstanding for them, the amount outstanding and their account total.
- The users shall be able to set the relative percentages due by each member of the bill individually (It does not have to be 50/50 if the bill has 2 users)
- There shall be one admin in a given group - the admin can ~~create recurring payments~~ and add members to the group, as well as changing the role of another user to admin
- The User that sets up the bill shall be the owner of the bill - they can set the amount due, the people that have to pay it back, and the percentages the user have to pay, and a means of payment.
- The users that are not the owner of the bill can only view the bill and pay it back
- The owner of a bill may also add the bill to an existing shopping list
- Users shall be able to mark any outstanding bills as paid. A user can only pay their share of the amount due in full.
- Users shall be able to create shopping lists
- Users can only be part of a single group
- Users shall have a view of their total due payments
- Users shall have a view of their payment history
- (A/B testing): Users shall be able to pay off all their payments at once on the overview page

Non-functional requirements

- The system shall use an SQLite database
- Vue.js client
- Terminal client
- Java Spring backend

Sprint Log

Meeting	21/03
Description	First meeting with brainstorming of ideas
Todo	Pick an idea

Meeting	22/03
Description	Decided to build a system that lets flatmates coordinate their expenses, shopping etc.
Todo	<ul style="list-style-type: none">- Determine (non-) functional requirements- Decide on work allocation

Meeting	23/03
Description	<ul style="list-style-type: none">- Establish (non-) functional requirements- Agree on basic API design and endpoints- Design database
Todo	<ul style="list-style-type: none">- Start first sprint cycle

Sprint cycle	23/03 - 25/03
Todo	<ul style="list-style-type: none">- Basic setup of vue.js client- Basic setup of Spring application
Review	n/a

Sprint cycle	25/03 - 28/03
Todo	<ul style="list-style-type: none">- Integrate SQLite database on the server including a data access object- Setup API endpoints with restricted access- Implement Admin and User views in the frontend- Setup Gitlab CI workflow
Review	<ul style="list-style-type: none">- Vue client has been set up- Spring has been set up including web security

Sprint cycle	29/03 - 01/04
Todo	<ul style="list-style-type: none"> - Frontend-client / server integration - Add lobby view to client - Unit tests for Server - Begin implementation of terminal client - Fix gitlab CI workflow
Review	<ul style="list-style-type: none"> - SQLite fully working - Majority of API endpoints integrated - Gitlab CI workflow not working yet - Swagger UI implemented

Sprint cycle	02/04 - 05/04
Todo	<ul style="list-style-type: none"> - Finish unit tests for Server - Add more extensive testing for DAO - Implement A/B testing functionality - Server refactoring (style, comments) - Finish CLI implementation
Review	<ul style="list-style-type: none"> - Frontend and server fully integrated; frontend meets all functional requirements - Server meets all functional requirements - Unit tests finished

Sprint cycle	06/04 - 07/04
Todo	<ul style="list-style-type: none"> - Write group report - Prepare project for submission - Submit project
Review	<ul style="list-style-type: none"> - Unit tests finished and all passing - Server and clients meet (non-) functional requirements