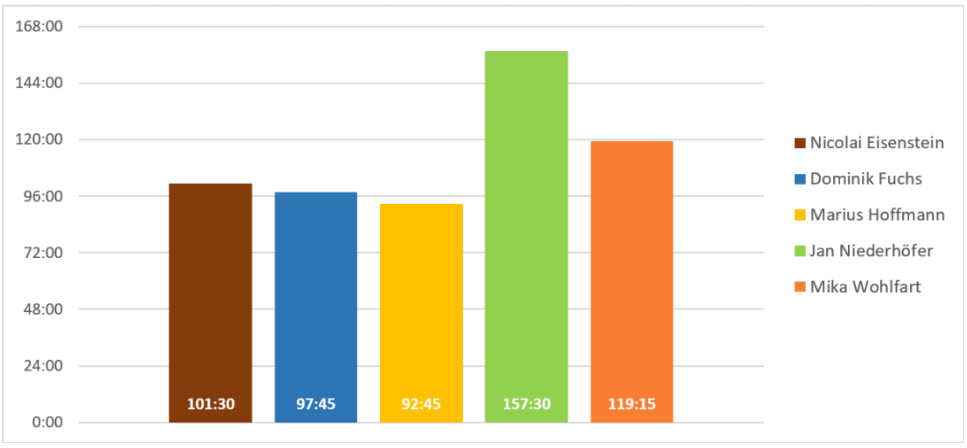
Inventory Management System Enterprise

Statistics of efforts

Hours per person



Highlights of project

Tech stack

Eclipse

WordPress

Github

Figma

Java

YouTrack

MongoDB

SonarQube

Discord

Maven

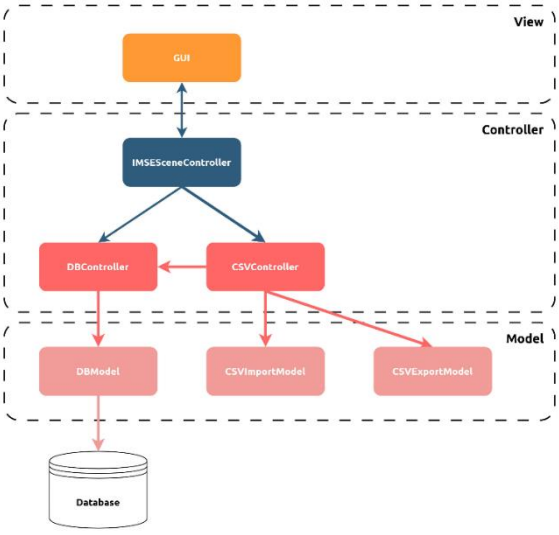
MVC

Separating the application into three components

MVC pattern promotes maintainability, code reusability, and testability

We utilize interfaces to facilitate communication between the View and Controllers

Controllers interact with the Models through direct access, enabling seamless data manipulation and processing



TINF21B2:
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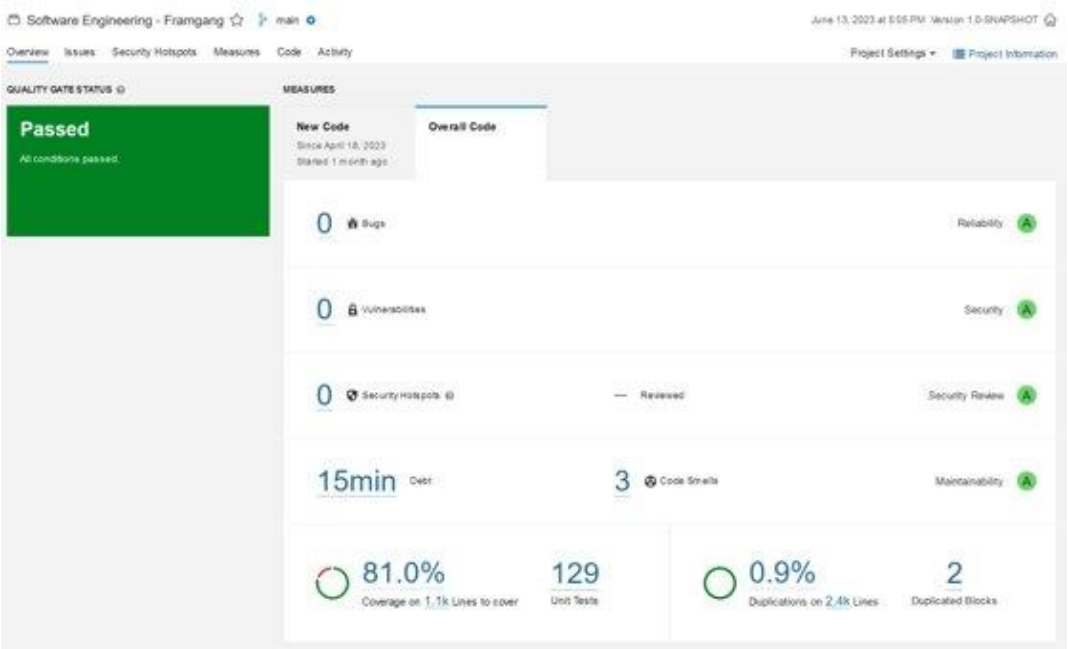
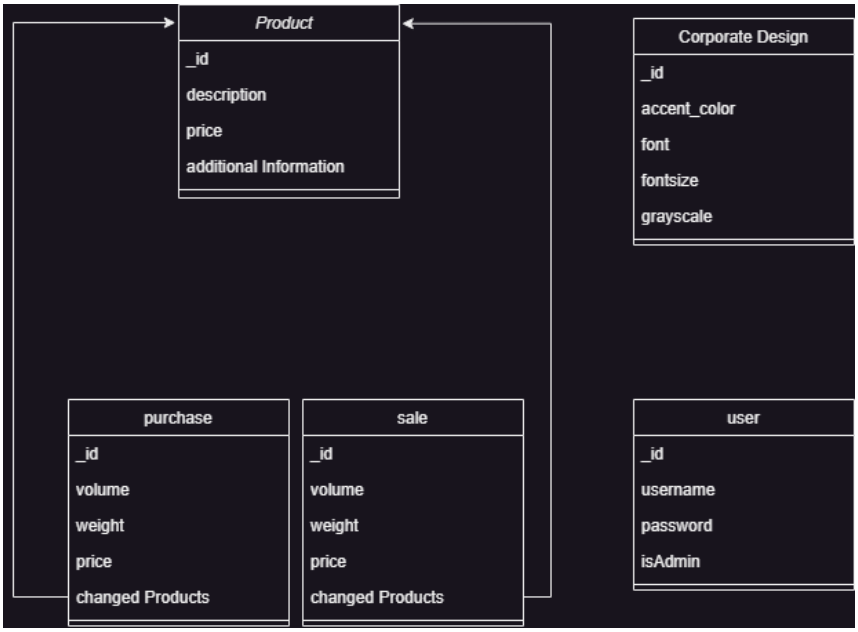
Testing



Target coverage of unit tests is 80%.

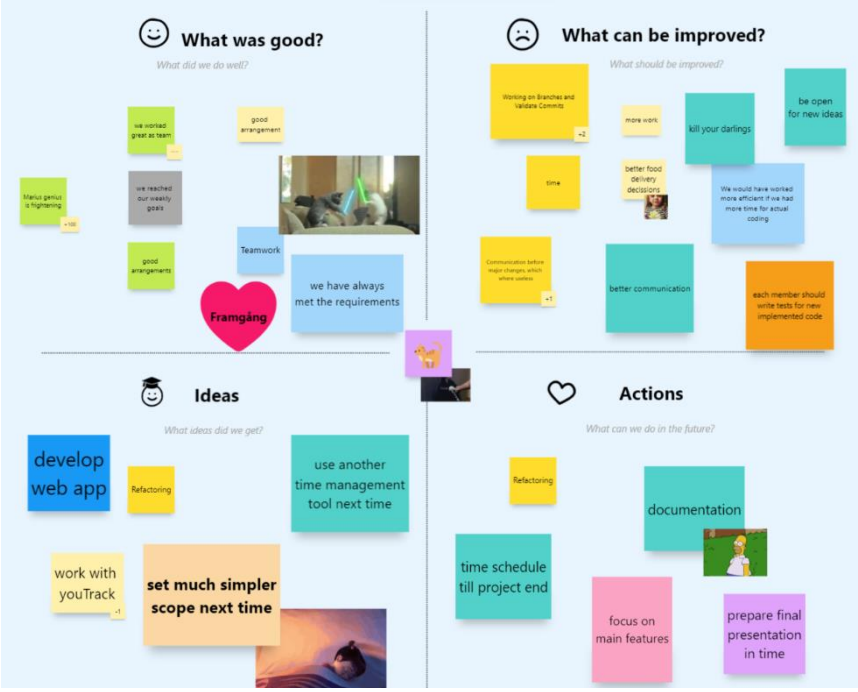
Achieved 81.0% with 129 unit tests.

Database design



1. Flexibility: Dynamic schema, accommodating changes in data models
2. Scalability: Horizontal scaling through sharding
3. Document-oriented storage: JSON-like documents for efficient data handling
4. High availability: Replica sets for automatic failover
5. Easy integration and development: Seamless integration with popular languages and frameworks

Project retrospective



Lessons learned

- at first, we had problems with the graphics in the documents (often inferior quality), today we pay attention to high resolution and appealing presentation
- when choosing a provider, consider if and after which period the account will be suspended (mongoDB)
- check in time if all requirements are fulfilled (e.g. accessibility from outside)
- choose the project-scope not too big
- choice of platform: web-app would have opened more possibilities and avoided some difficulties (see DB, CD)
- make sure to start early with time management
- finish documents early and don't put everything off until "later"
    - high workload at the end of the semester

Highlights of demo