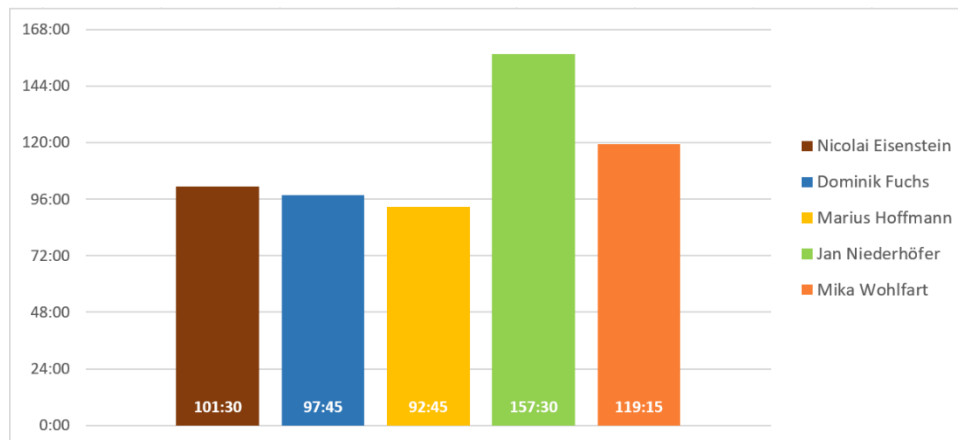


Inventory Management System Enterprise

Statistics of efforts

Hours per person



Highlights of project

Tech stack



Eclipse



WordPress



Github



Figma



Java



YouTrack



MongoDB



SonarQube



Discord



Maven

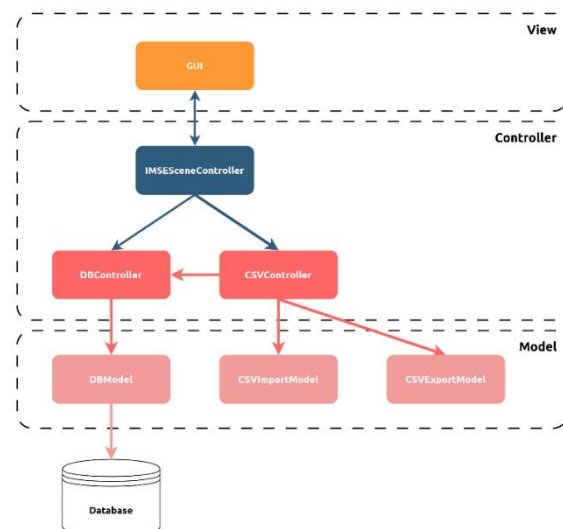
MVC

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

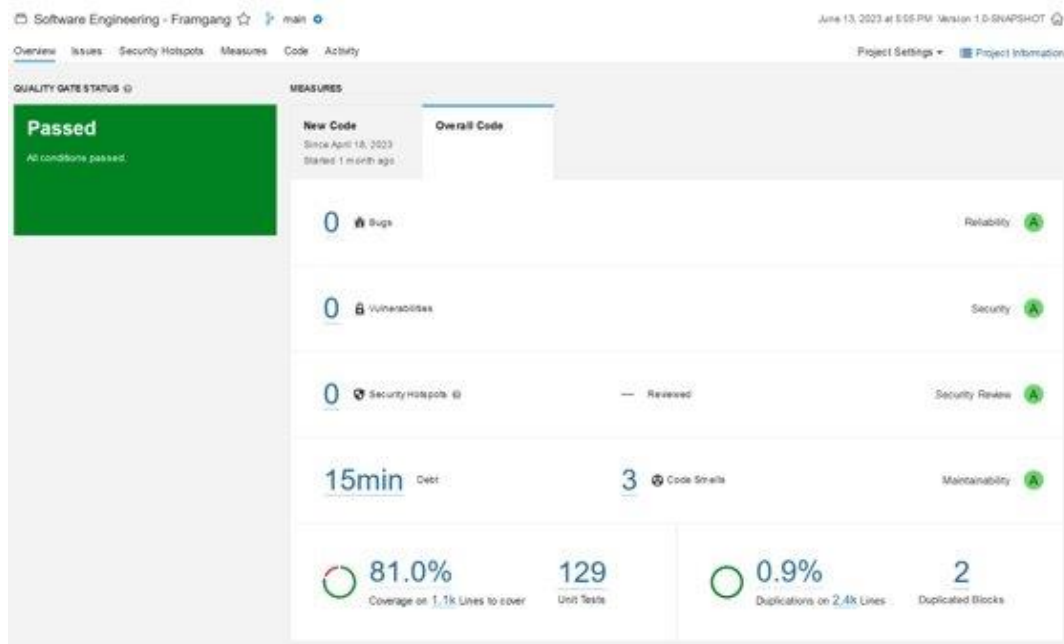
Controllers interact with the Models through direct access, enabling seamless data manipulation and processing



TINF21B2:

Nicolai Eisenstein, Dominik Fuchs, Marius Hoffmann, Jan Niederhöfer, Mika Wohlfart

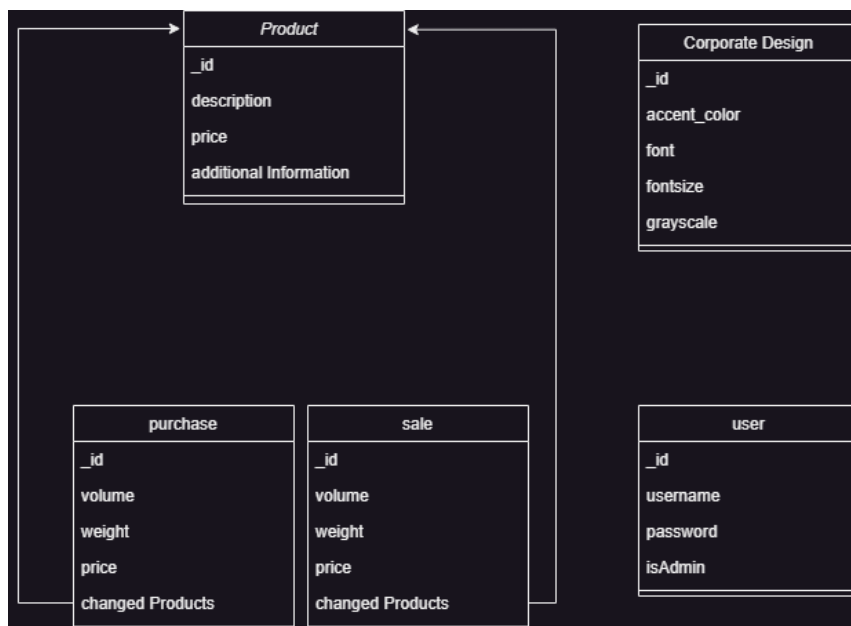
Testing



Target coverage of unit tests is 80%.

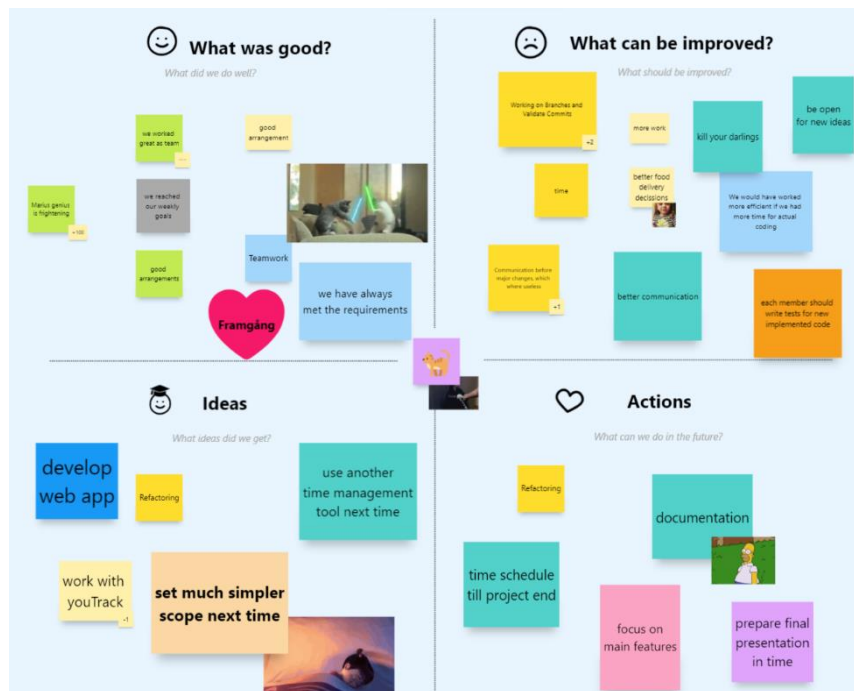
Achieved 81.0% with 129 unit tests.

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

FRAMGANG

Dashboard Products Management

login

Purchase

Sale

Article Overview

Article

Export CSV Add Product

Search Product: Keyword

ID	Description	Price	Quantity
646491a05e90c07f80b05758	ergonomic drill	43.43	50
646491a05e90c07f80b0575b	portable wrench	91.75	42
646491a05e90c07f80b0575a	powerful nails	16.44	74
646491a05e90c07f80b05760	powerful level	75.38	53
646491a05e90c07f80b05780	innovative pliers	97.73	74
646491a05e90c07f80b05754	multi-functional power tool	53.46	87
646491a05e90c07f80b05753	heavy-weight sander	27.34	16
646491a05e90c07f80b05759	innovative sander	18.33	32
646491a05e90c07f80b05752	precision nails	18.42	98
646491a05e90c07f80b05755	versatile pliers	85.99	79
646491a05e90c07f80b05772	innovative sander	46.89	47
646491a05e90c07f80b05757	heavy-duty glue	14.36	78
646491a05e90c07f80b05756	innovative level	70.07	26
646491a05e90c07f80b0576e	ergonomic paint	47.89	40
646491a05e90c07f80b05787	ergonomic hammer	31.21	93
646491a05e90c07f80b0578f	powerful ear protection	34.63	89
646491a05e90c07f80b05791	heavy-duty drill	13.3	10
646491a05e90c07f80b05794	portable tape measure	30.69	96
646491a05e90c07f80b057af	powerful ladder	17.83	69
646491a05e90c07f80b05780	portable drill	42.13	90
646491a05e90c07f80b057e2	reliable tape measure	66.74	50
646491a05e90c07f80b05796	precision glue	21.86	12

FRAMGANG

Dashboard Products Management

login

Purchase

Sale

Article Overview

Recent sales

ID	Total weight	Volume	Price
6466f05a3c6014e891d386c	4.0	4.0	216.2

New sale

ID: 6466f05a3c6014e891d386c

Total weight: 30.0

Volume: 30.0

Price: 1939.80

Products:

Search product

adjustable angle grinder id:646491a05e90c07f80b057af

Quantity (from 1 - 41): 28 Add

ID	Description	Weight	Volume	Unit	Price	Currency	Quantity
646491a05e90c07f80b057af	adjustable saw	64.66					30