IDATA2306 Sprint Reports

10029, 10007, 10017

May 2025

Contents

1 Sprint 1, week 3 **3**
1.1 Planning . . . 3
1.2 Task delegation . . . 3
1.3 Retrospective . . . 3
1.4 Issue-board screenshots . . . 3

2 Sprint 2, week 4 **4**
2.1 Planning . . . 4
2.2 Task delegation . . . 4
2.3 Retrospective . . . 4
2.4 Issue-board screenshots . . . 4

3 Sprint 3, week 5 **5**
3.1 Planning . . . 5
3.2 Task delegation . . . 5
3.3 Retrospective . . . 5
3.4 Issue-board screenshots . . . 5

4 Sprint 4, week 6 - 7 **6**
4.1 Planning . . . 6
4.2 Task delegation . . . 6
4.3 Retrospective . . . 6
4.4 Issue-board screenshots . . . 6

5 Sprint 5, week 8-9 **6**
5.1 Planning . . . 6
5.2 Task delegation . . . 6
5.3 Retrospective . . . 7
5.4 Issue-board screenshots . . . 7

6 Sprint 6, week 10-11 **7**
6.1 Planning . . . 7
6.2 Task delegation . . . 7
6.3 Retrospective . . . 8
6.4 Issue-board screenshots . . . 8

7 Sprint 7, week 12 - 13 **8**
7.1 Planning . . . 8
7.2 Retrospective . . . 8

8 Sprint 8, week 14 - 15 **8**
8.1 Planning . . . 8
8.2 Task delegation . . . 8
8.3 Retrospective . . . 9
8.4 Issue-board screenshots . . . 9

9 Sprint 9, week 16 - 17 **9**
9.1 Planning . . . 9
9.2 Task delegation . . . 9
9.3 Retrospective . . . 10
9.4 Issue-board screenshots . . . 10

10 Sprint 10, week 18-19 **11**
10.1 Planning . . . 11
10.2 Task delegation . . . 11
10.3 Retrospective . . . 11
10.4 Issue-board screenshots . . . 12

11 Sprint 11, week 20-21 **13**
11.1 Planning 13
11.2 Task delegation 13
11.3 Retrospective 13
11.4 Issue-board screenshots 14

1 Sprint 1, week 3

1.1 Planning

The goal of the sprint is to establish the requirements and create the architecture application.

1.2 Task delegation

Tasks this sprint include:

- Plan out the different elements of the application and their responsibilities (Full group)
- Create an illustration for the architecture (Stian)

1.3 Retrospective

This ended up being a small sprint with only 2 tasks. The tasks that were in the sprint went well. We feel that we are well ahead of schedule

1.4 Issue-board screenshots

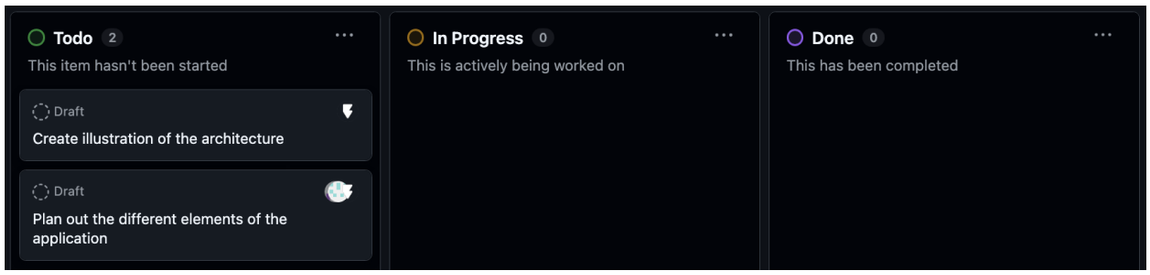

Figure 1: Sprint 1: Start

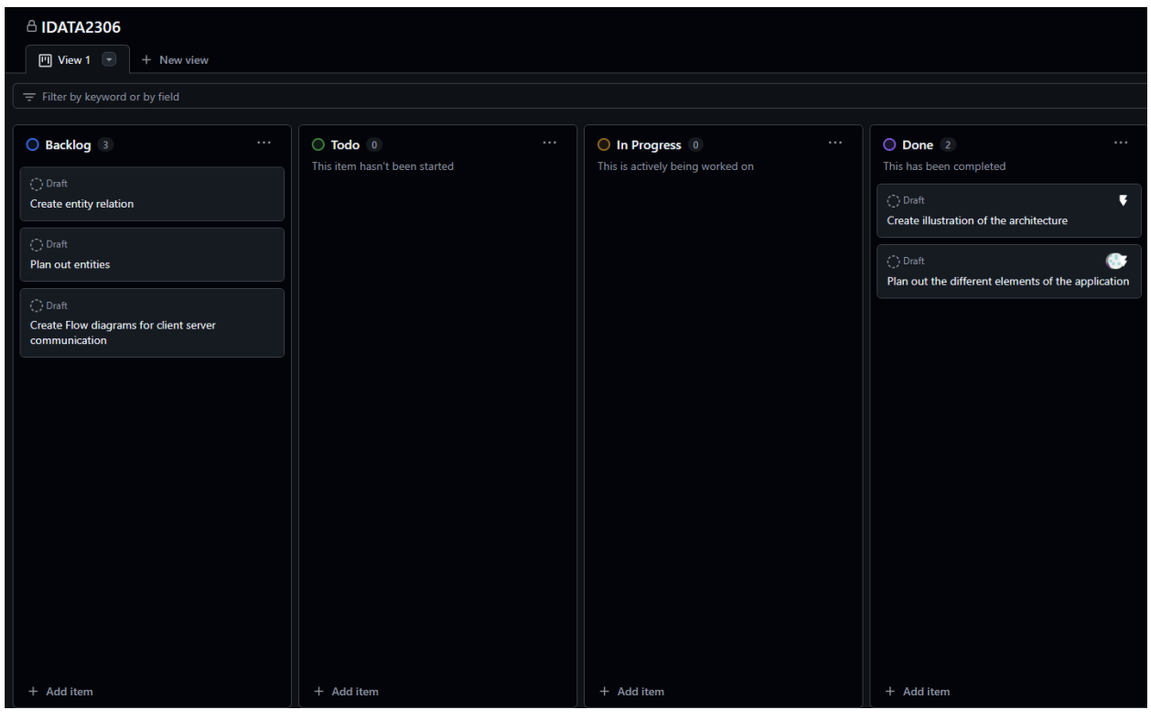

Figure 2: Sprint 1: End

2 Sprint 2, week 4

2.1 Planning

In this sprint we aim to get the basics of the project up and going, this includes planning out the different entities and initializing the projects code base.

2.2 Task delegation

Tasks this sprint include:

- Establish a theoretical and logical model for entities (Everyone)
- Initiate spring project (Stian)
  - Create repository (Ludvik)
  - Add dependencies (Stian)
- Create basic entity class for cars (Ludvik)
- Create basic entity class for companies (Kristian)
- Create user entity (Stian)

2.3 Retrospective

We finished most of the tasks. The group did not have as much time this week as we expected, thus some tasks need to be moved to the next sprint. These tasks are showed in figure 4. The work we had time for went smoothly.

2.4 Issue-board screenshots

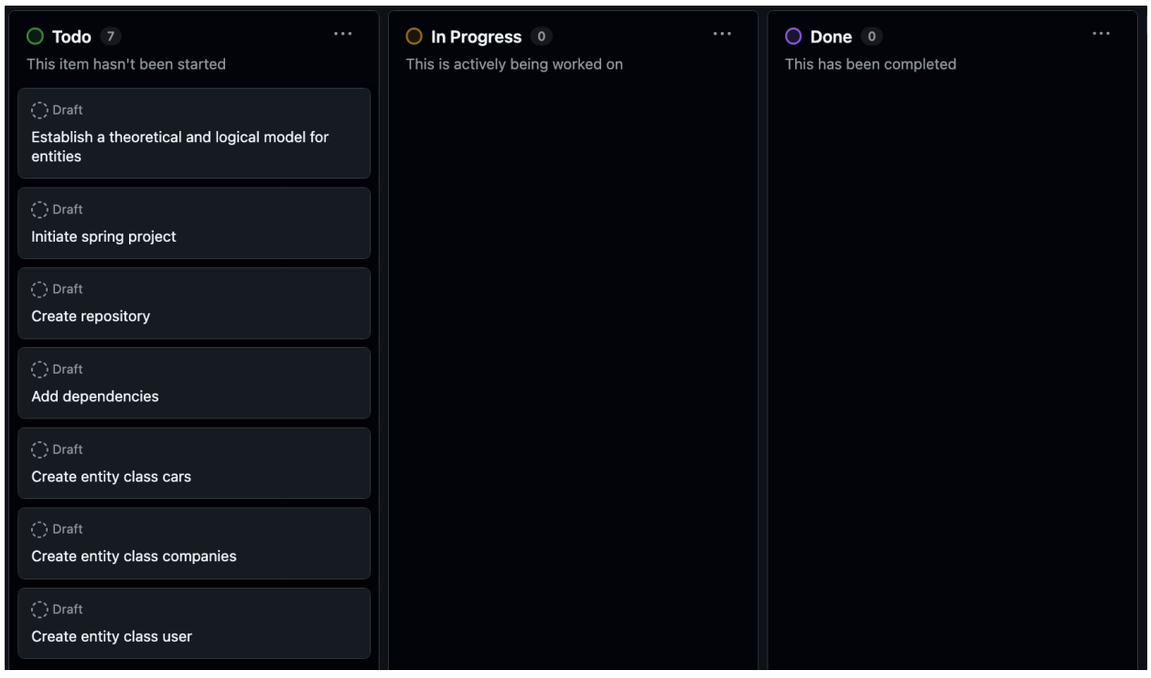

Figure 3: Sprint 2: Start

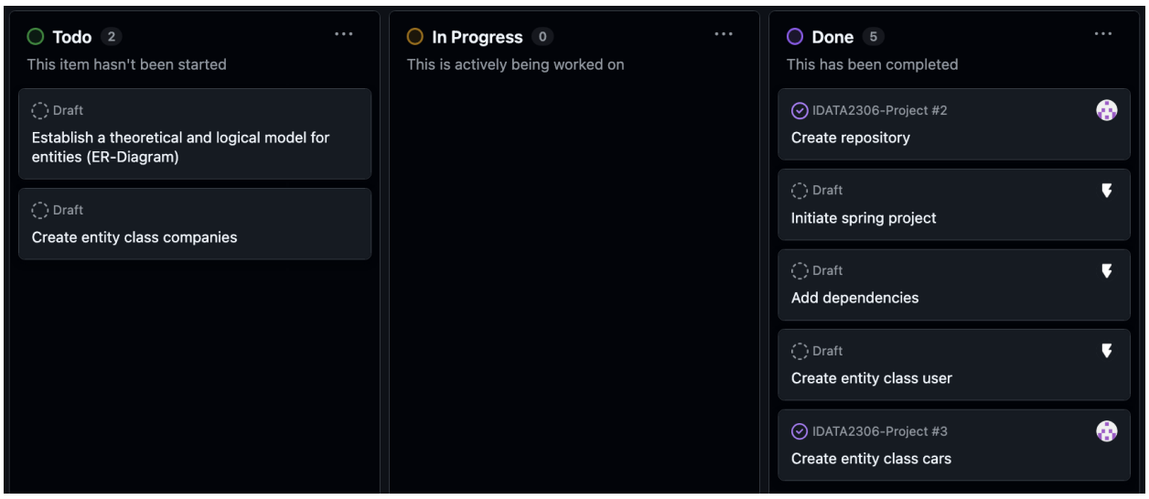

Figure 4: Sprint 2: End

3 Sprint 3, week 5

3.1 Planning

For the third sprint we will focus on creating an ER-model as well as continuing on the uncompleted tasks from the previous sprint.

3.2 Task delegation

Tasks this sprint include:

- ER-Model/Diagram (Stian, Ludvik)
- Create entity class companies (Kristian)
- Research Spring security (All members)

3.3 Retrospective

Everyone met as expected and we completed all expected tasks.

3.4 Issue-board screenshots

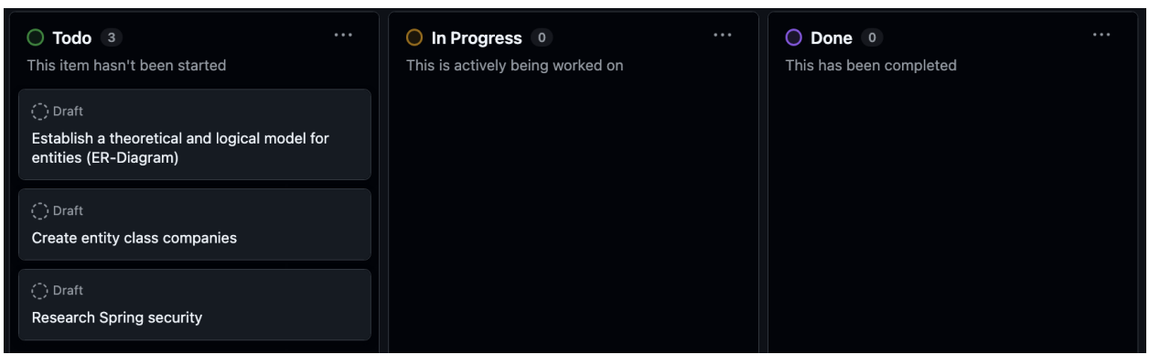

Figure 5: Sprint 3: Start

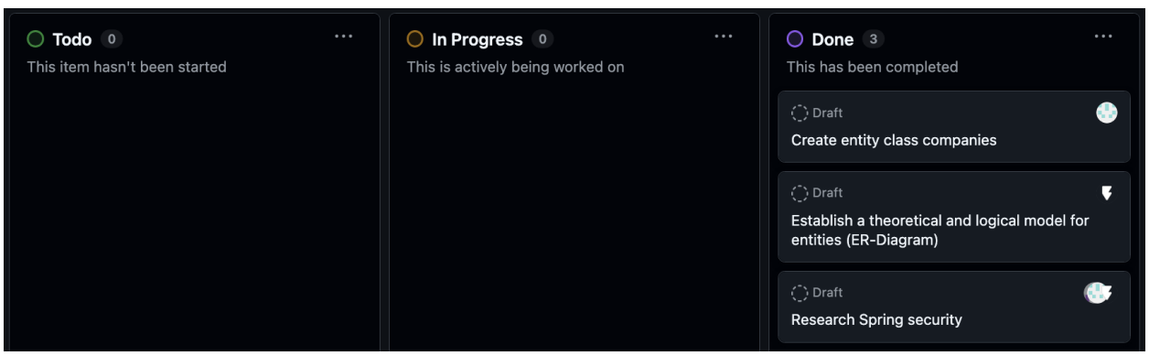

Figure 6: Sprint 3: End

4 Sprint 4, week 6 - 7

4.1 Planning

This sprint we will focus on implementing basic controllers to make our backend accessible for testing purposes.

4.2 Task delegation

Tasks this sprint include:

- Implement CarController (Stian)
- Implement UserController (Kristian)
- Implement CompanyController (Ludvik)

4.3 Retrospective

This sprint went very smoothly since there were few issues. This is due to prioritization of other courses these weeks. Before this sprint we decided to extend the sprints' length to 2 weeks as one week sprints became redundant. All sprints following will be 2 weeks long.

4.4 Issue-board screenshots

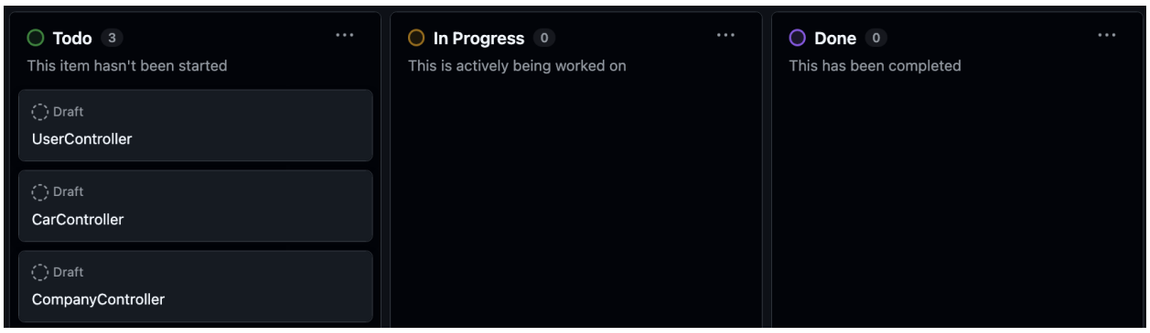

Figure 7: Sprint 4: Start

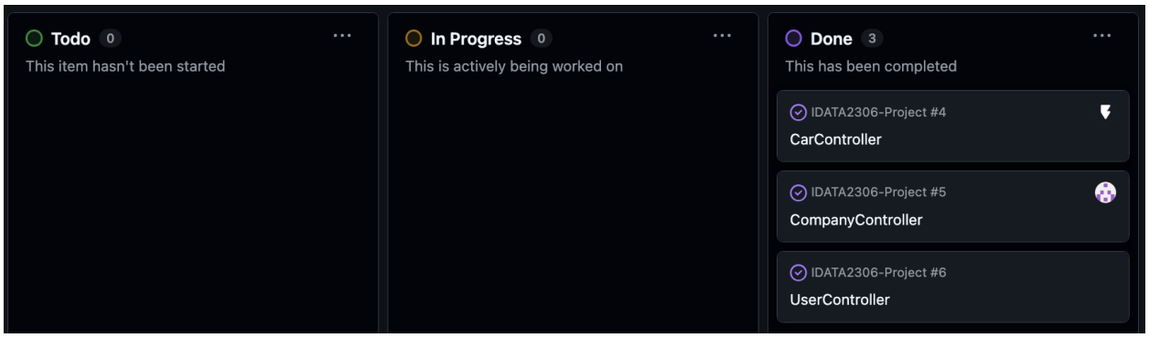

Figure 8: Sprint 4: End

5 Sprint 5, week 8-9

5.1 Planning

This sprint we will focus on opening up for communication with the frontend by configuring CORS to allow external connections. We will also implement some more user functionality

5.2 Task delegation

Tasks this sprint include:

- Implement User Repository (Kristian)
- Implement UserDetailsService (Stian)
- Setup password encryption (Kristian, Ludvik)
- JWT token (Stian, Ludvik)
- Configure CORS (Ludvik)

5.3 Retrospective

At the start of the second week we noticed that we had forgotten to implement the security configuration of the application. This made it impossible to both implement the jwt token security and setting up the password encryption. To fix this issue we create an extra issue on the issue board to implement it.

5.4 Issue-board screenshots

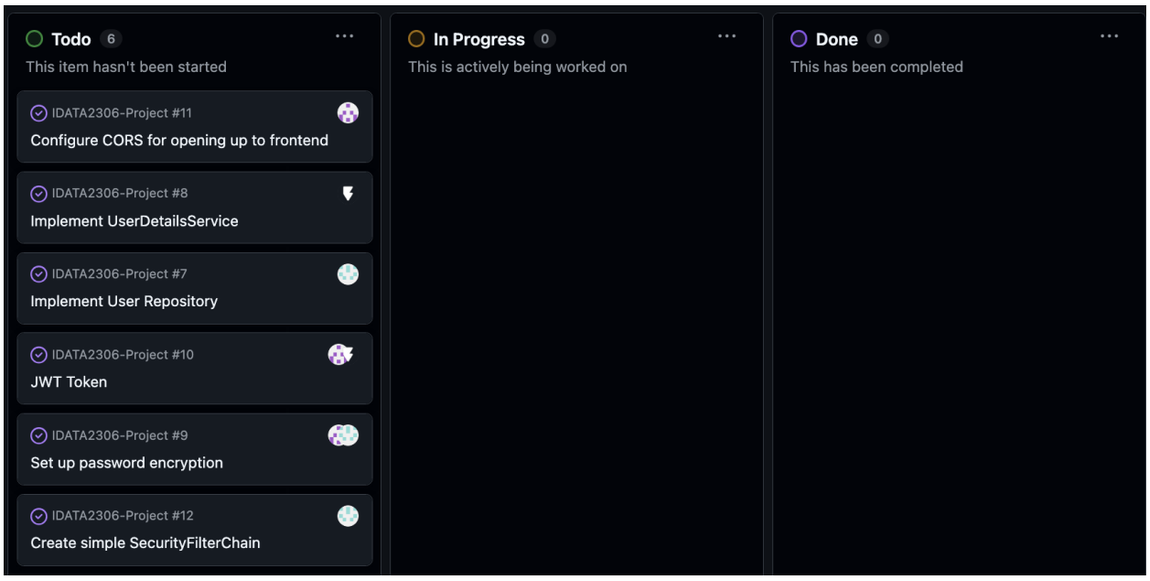

Figure 9: Sprint 5: Start

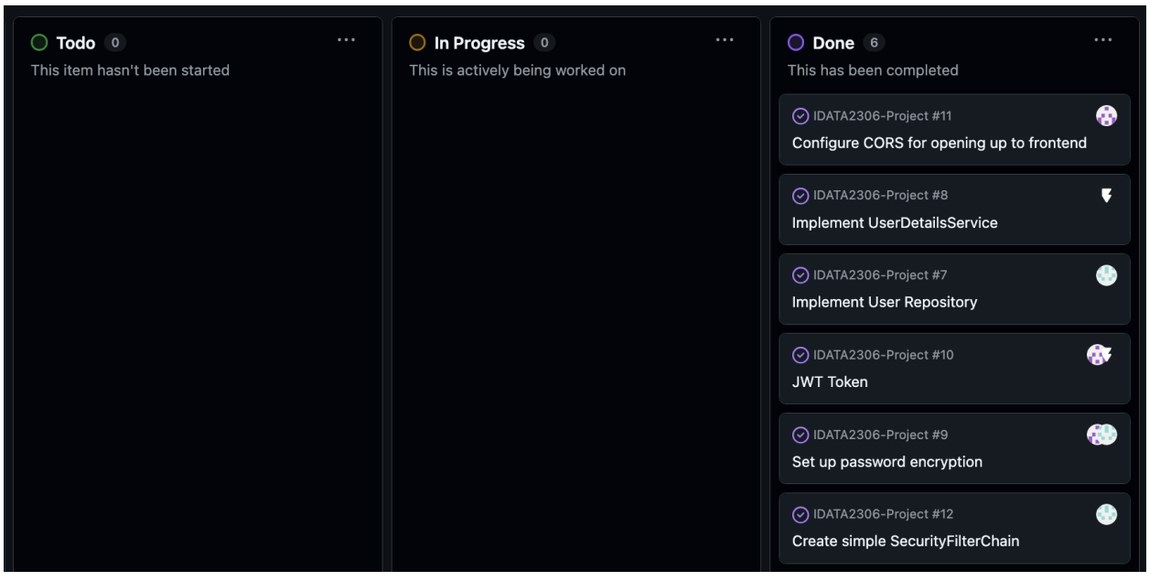

Figure 10: Sprint 5: End

6 Sprint 6, week 10-11

6.1 Planning

During this sprint we will focus on taking a step back, refactoring previous work to reflect on feedback from the second checkpoint.

6.2 Task delegation

Tasks this sprint include:

- Implement different levels of users (Stian)
- Update and expand ER-diagram (All members)
- Expand car entity (Ludvik, Stian)
- API Doc (Kristian)

6.3 Retrospective

The sprint went as planned. The backend has been updated according to our new ER-diagram. It was a good idea to not have more issues since there was a lot of boilerplate code that took some time. The issues could have been divided into smaller issues for this reason.

6.4 Issue-board screenshots

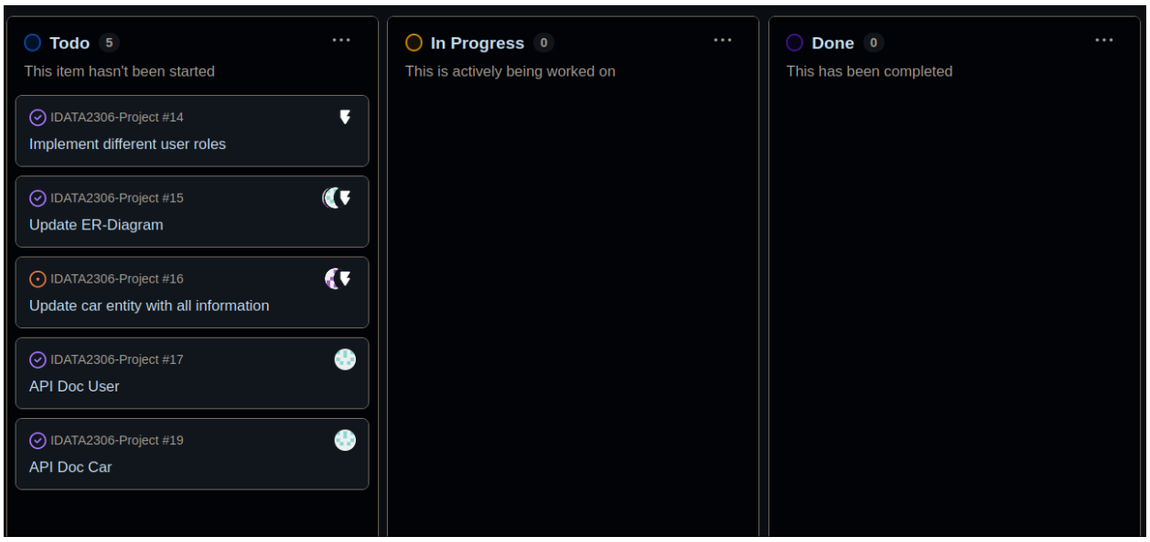

Figure 11: Sprint 6: Start

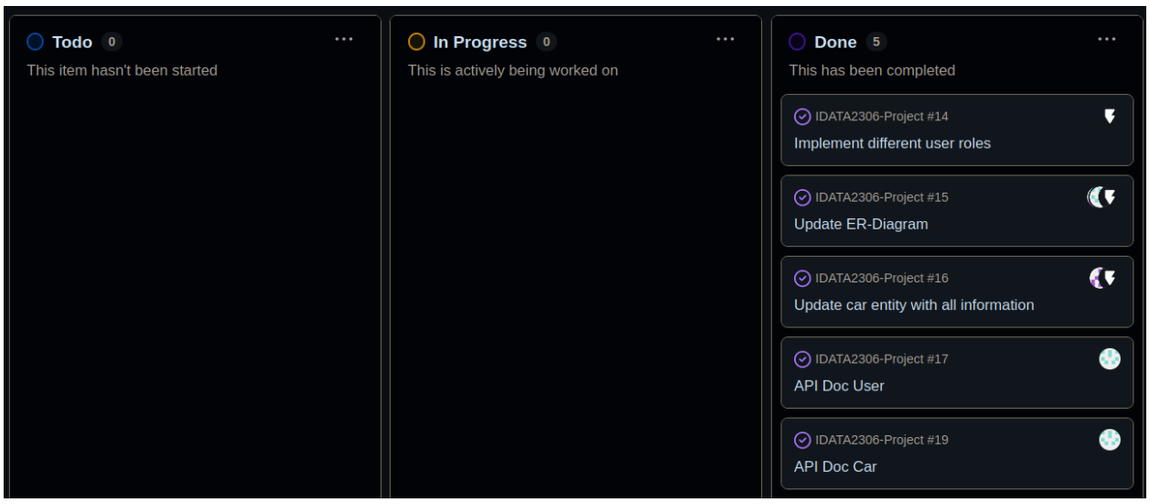

Figure 12: Sprint 6: End

7 Sprint 7, week 12 - 13

7.1 Planning

This sprint we will focus on the frontend, making sure it is up to date and all static pages are implemented.

7.2 Retrospective

As we focused on frontend, the sprint went well.

8 Sprint 8, week 14 - 15

8.1 Planning

The main focus of this sprint is to catch up on previously backlogged issues, with the addition of completing postman tests for all controllers.

8.2 Task delegation

Tasks this sprint include:

- Key storage in resource (Removed)

- Logging User (Ludvik)
- Logging Car (Kristian)
- Logging Company (Stian)
- Open up portal related endpoints for all origins (no jwt required) (Ludvik)
- Implement order entity (Kristian)
- Postman tests AuthenticationController (Stian)
- Postman tests CarController (Not completed)
- Postman tests CompanyController (Not completed)
- Postman tests UserController (Not completed)

8.3 Retrospective

This sprint did not go exactly as planned. Logging has been implemented, and endpoints have been opened. Postman tests were started on but not finished, so many of them were put back in the backlog.

8.4 Issue-board screenshots

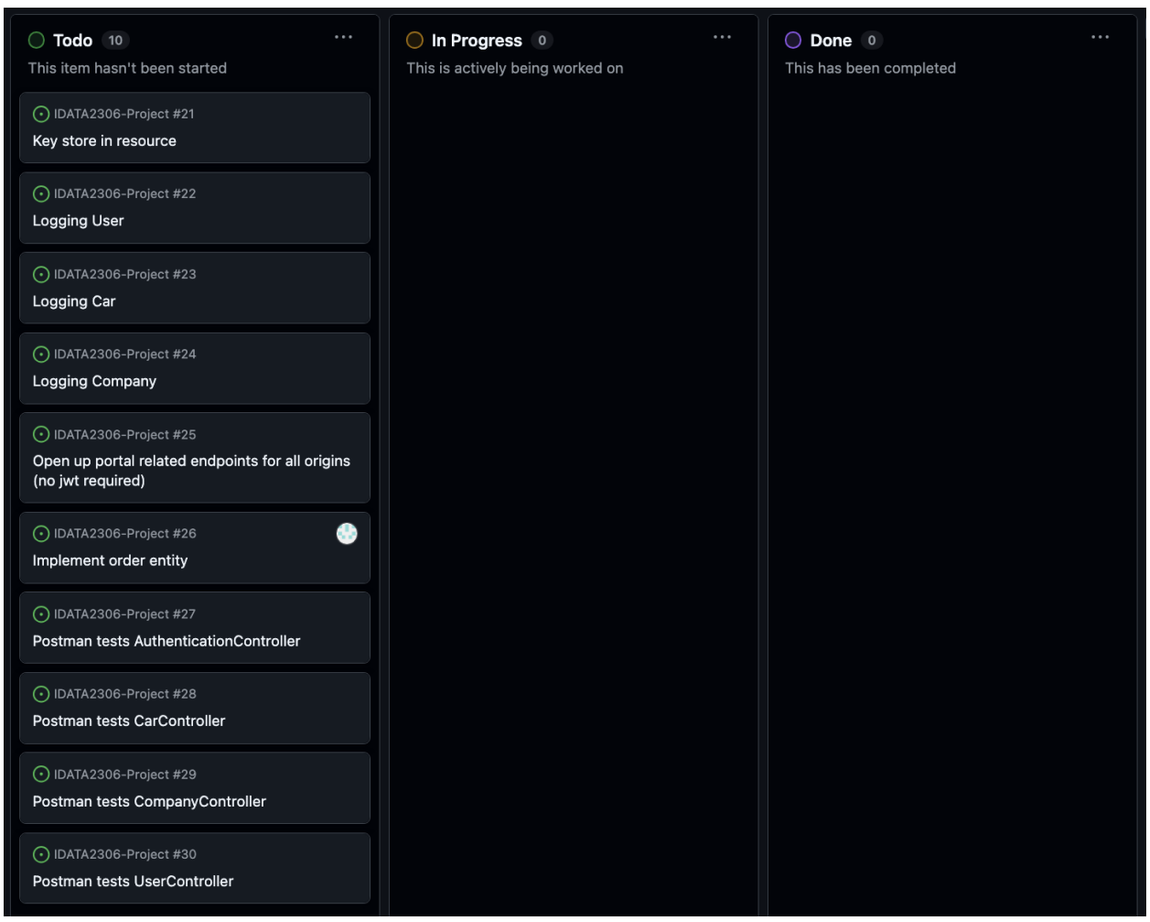

Figure 13: Sprint 8: Start

9 Sprint 9, week 16 - 17

9.1 Planning

As this sprint is partly during our easter break, we decided to create a lot of issues and complete however many we have time/want to do.

9.2 Task delegation

Tasks this sprint include:

- Postman tests CarController (Ludvik)
- Postman tests AuthenticationController (Stian)
- Postman tests UserController (Stian)

- Implement OrderRepository (Kristian)
- Implement OrderController (Kristian)
- Component for error message when unable to contact backend (Ludvik)
- Logging Order (Kristian)
- Car filters (Ludvik)
- Add description field to entity classes (Kristian)
- Implement post endpoint for creating an order (Stian)
- Open endpoints for fetching cars by id (Ludvik)

9.3 Retrospective

The group managed to complete all tasks during this sprint.

9.4 Issue-board screenshots

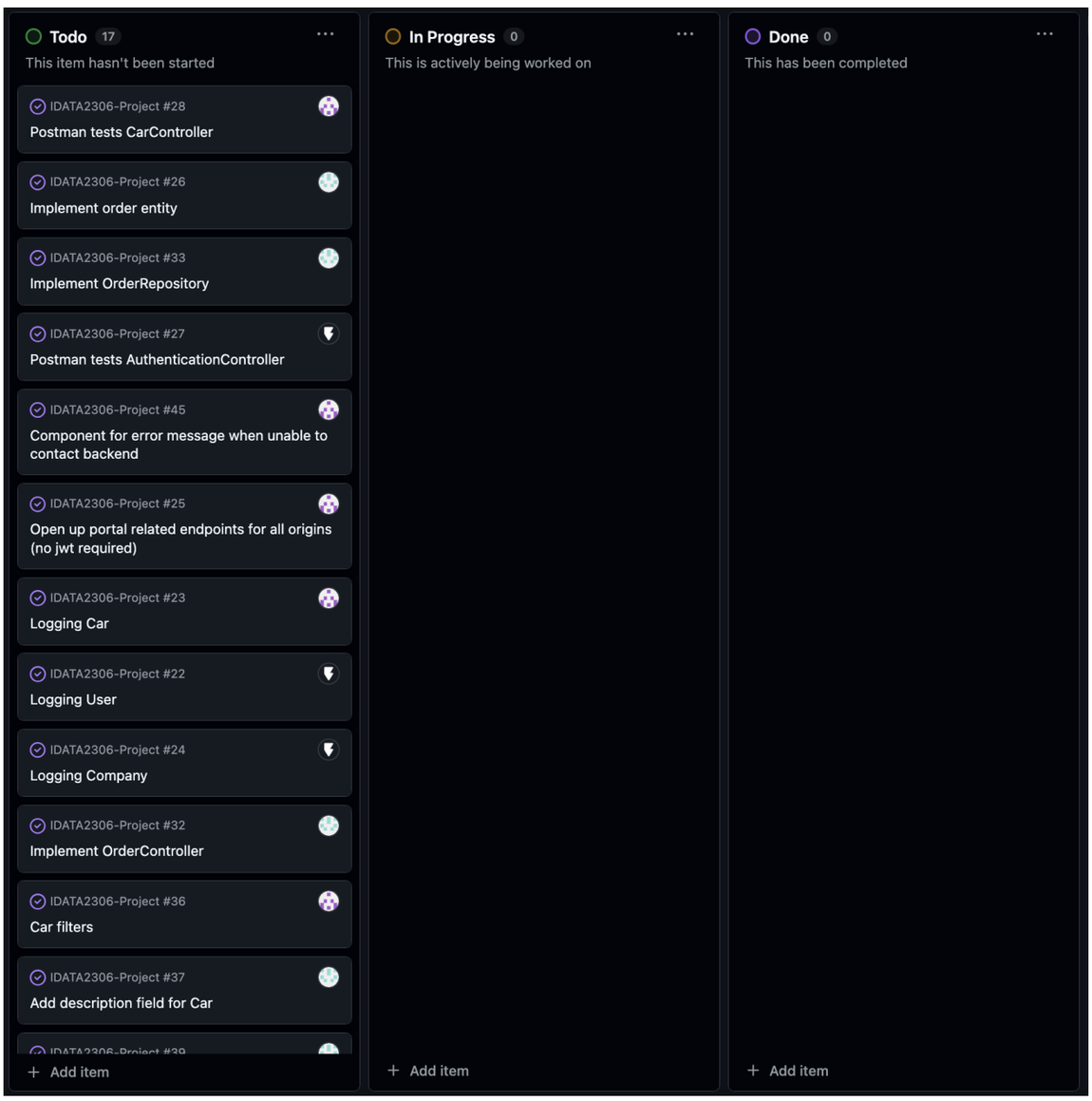

Figure 14: Sprint 9: Start

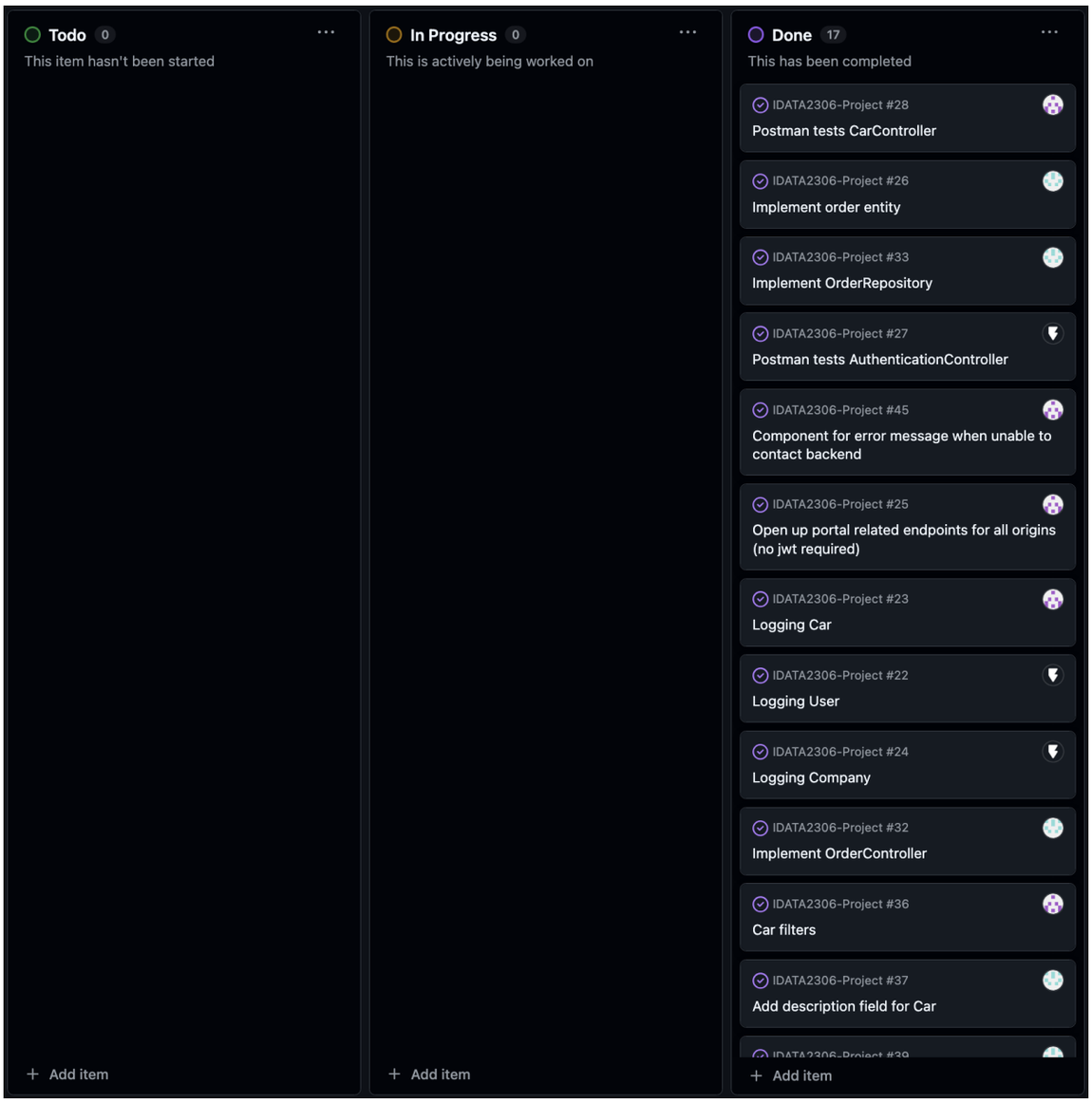

Figure 15: Sprint 9: End

10 Sprint 10, week 18-19

10.1 Planning

Finishing of smaller features that aren't core to the main application.

10.2 Task delegation

Tasks this sprint include:

- Dynamic filters (Ludvik)
- Implement favorite cars for User (Ludvik, Kristian)
- Change docker compose to not use latest postgres (Ludvik)
- Validation of JWT (Kristian)
- Implement price for addons (Stian)
- Add support for multiple choices per filter (Ludvik)
- Image serving and handling (Kristian)
- Postman tests ordercontroller (Stian)

10.3 Retrospective

The sprint went mostly as expected, with some issues being left to the next sprint since frontend was prioritised. Since we had no lectures, we had a lot of time to complete issues. The application is nearing completion.

10.4 Issue-board screenshots

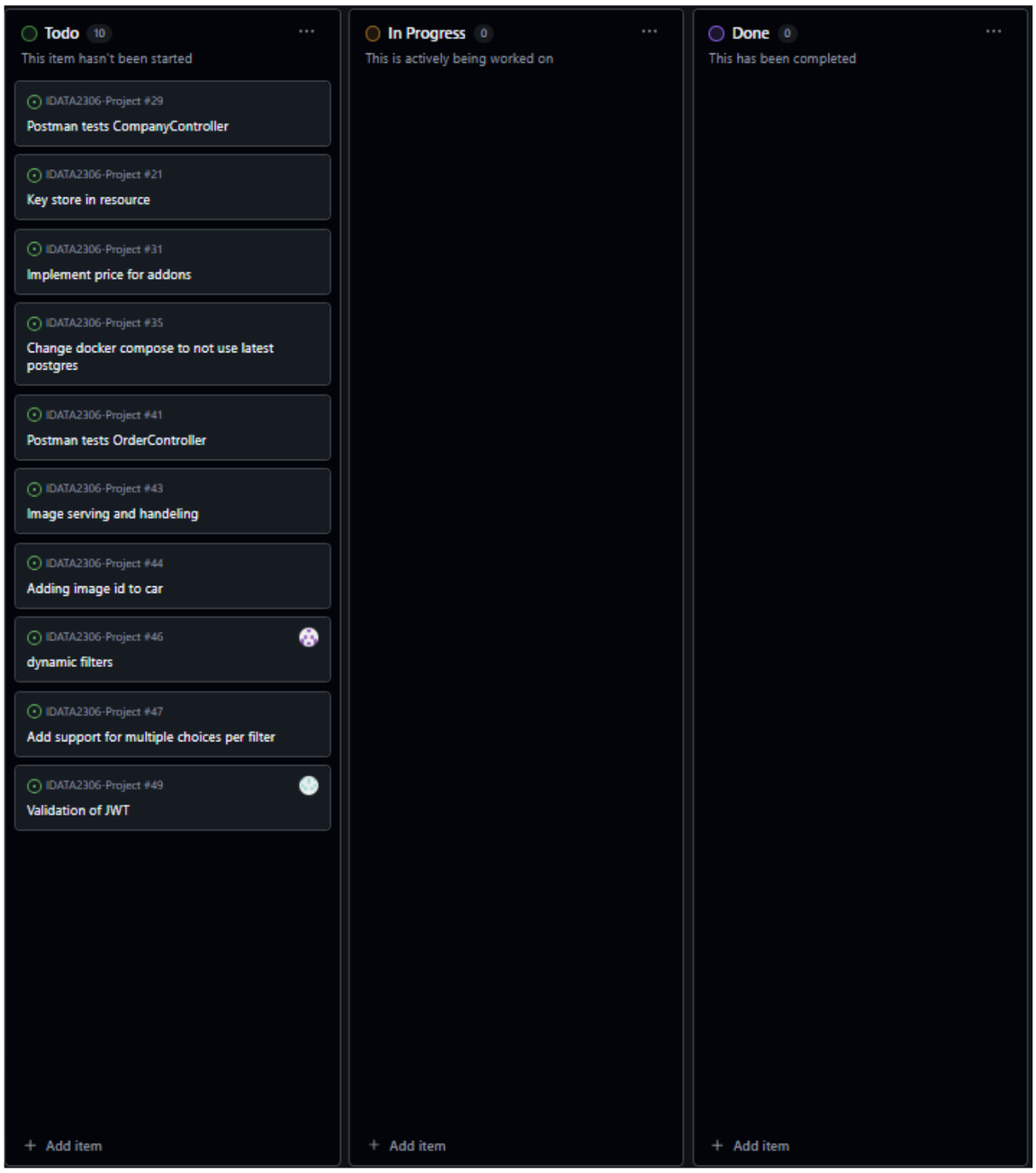

Figure 16: Sprint 10: Start

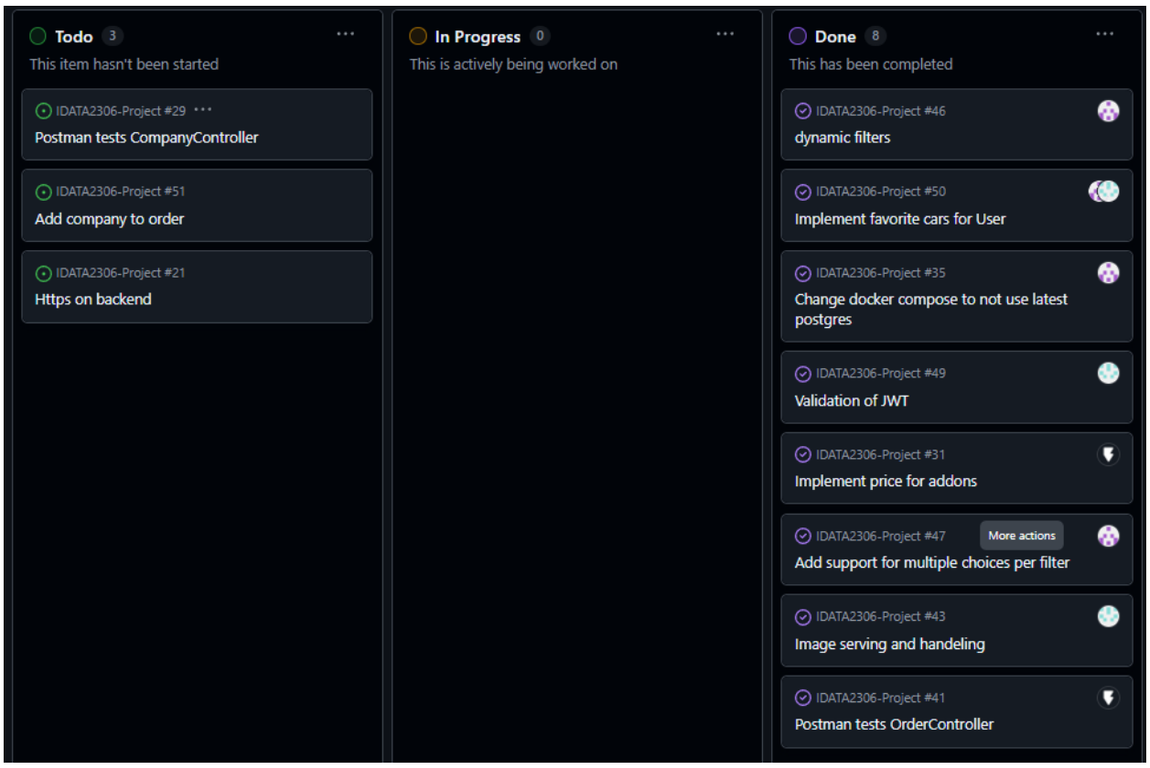

Figure 17: Sprint 10: End

11 Sprint 11, week 20-21

11.1 Planning

This is the final sprint of the project and we will aim mostly for cleaning up the code, refactoring, testing and deployment.

11.2 Task delegation

Tasks this sprint include:

- Limit Cors mapping (Ludvik)
- Restrict user endpoint (Kristian)
- Remove default password (Stian)
- Restrict car endpoints (Kristian)
- HTTPS (Stian)
- Readme (Stian)
- JavaDoc (All members)

11.3 Retrospective

The last sprint went well, and we managed to accomplish all the tasks we planned on doing.

11.4 Issue-board screenshots

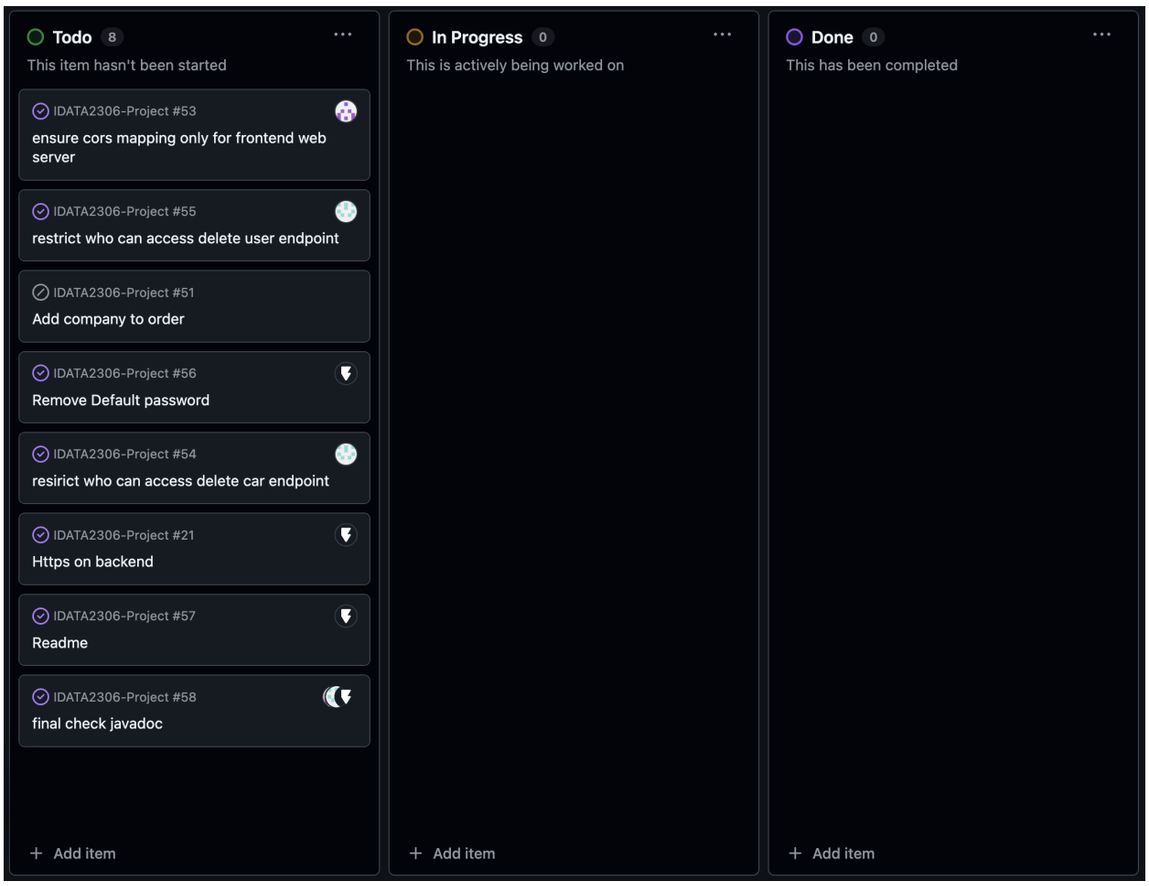

Figure 18: Sprint 11: Start

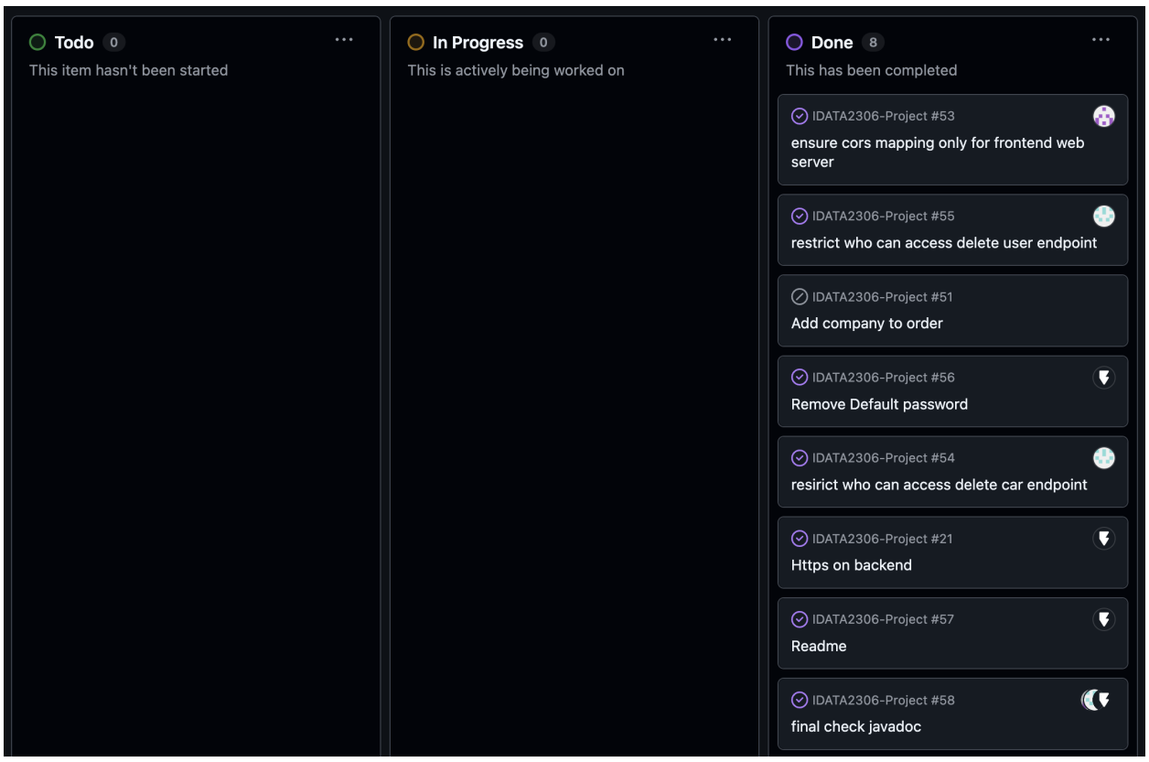

Figure 19: Sprint 11: End