

Sprint 4 Planning: Final steps and deployment

The following section outlines the plan and main focus points for sprint 4.

Focus:

- 1. Finalize Testing and CI/CD (3.3.2025 to 5.3.2025)**
 - Identify and resolve issues causing test failures, ensuring Jenkins operates smoothly and consistently.
 - **Assigned to:** Ade, Jonne & Mika
- 2. Containers and Deployment (5.3.2025 to 7.3.2025)**
 - Set up containerized environments and configure deployment processes.
 - **Assigned to:** Heta & Mika
- 3. Deploy Using Minikube (5.3.2025 to 7.3.2025)**
 - Implement and test local Kubernetes deployment using Minikube.
 - **Assigned to:** Ade & Heta
- 4. Prepare Project Documentation (5.3.2025 to 10.3.2025)**
 - Compile technical documentation, including setup, usage, readme, and architecture details.
 - **Assigned to:** Everyone
- 5. Prepare Project Presentation (5.3.2025 to 10.3.2025)**
 - Create and organize materials for the final project presentation.
 - **Assigned to:** Everyone

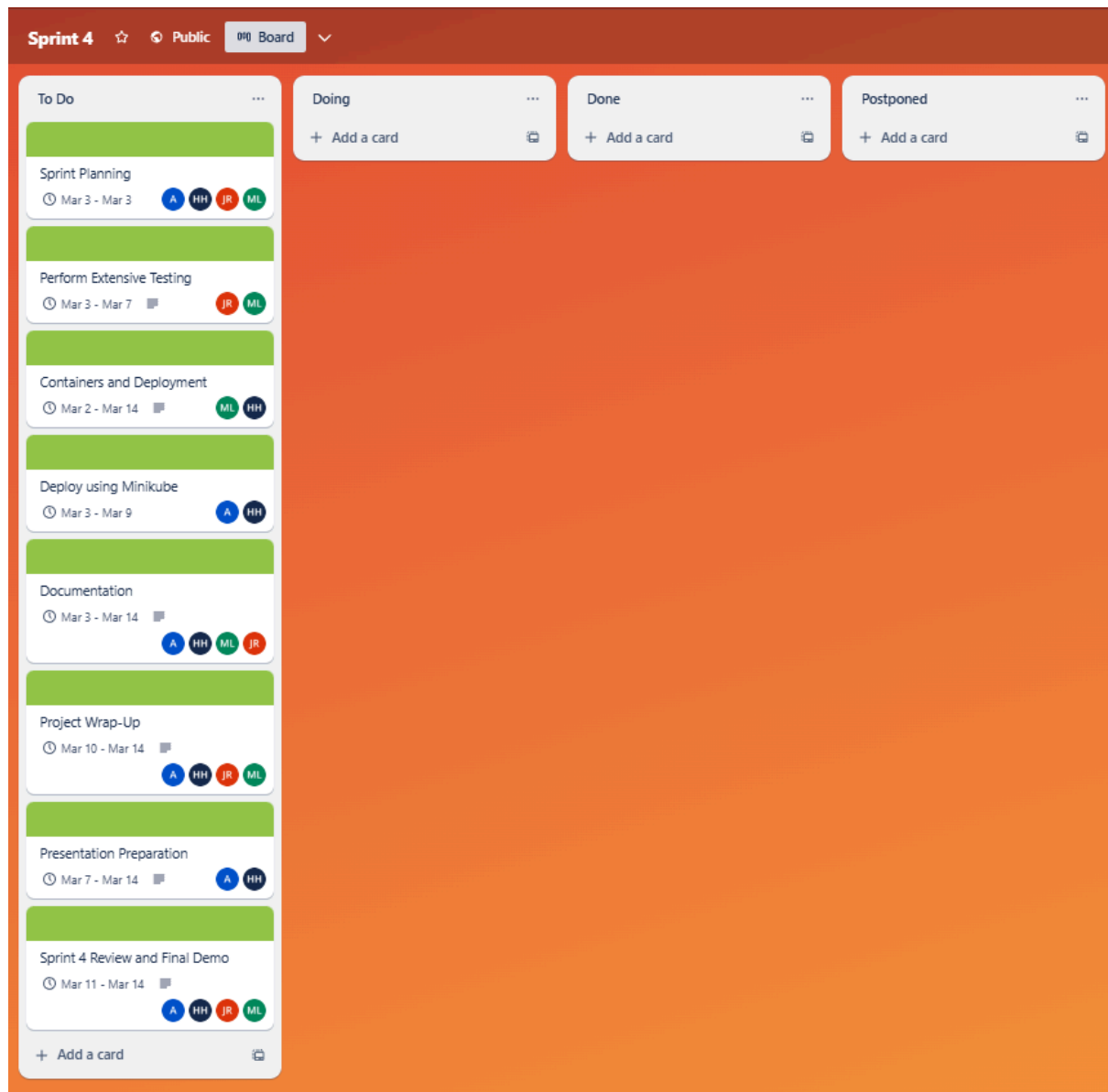


Image 1. Sprint 4 Backlog.

The sprint 4 trello board in **image 1**. displays all the upcoming tasks ordered in terms of their priority. Each card contains a brief description of the task and the assigned team member along with a schedule.

Sprint 3 Review

Sprint 3 backlog status:

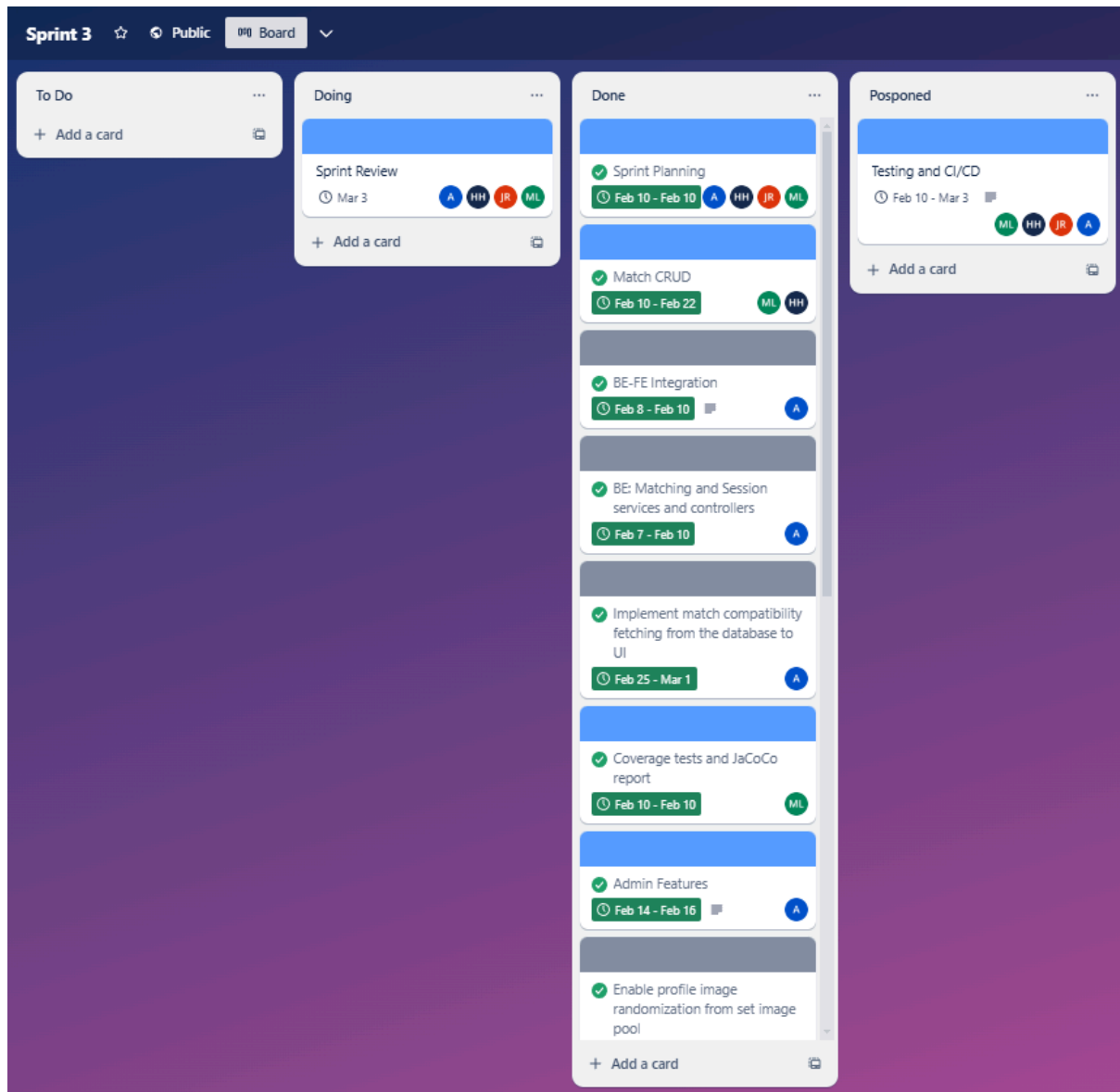


Image 2. Sprint 3 Backlog.

The sprint 3 Trello board in **image 2**. contains 16 fully completed tasks. The CI/CD needs refinement, and therefore is postponed to sprint 4.

Time spent by each team member:

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	Sprint 1	Sprint 2	Sprint 3	Sprint 4	Total
Ade	10	17	23		50
Heta	14	17	23		54
Mika	14	17	27		58
Jonne	14	19	25		58

Image 3. This worksheet tracks sprint work hours for each team member.

Obstacles and Challenges Encountered:

Testing proved to be a significant challenge, particularly when dealing with database interactions and UI components. To avoid unintended modifications to the database, we had to rely on Mockito for mocking database interactions. While this approach ensured data safety, it introduced additional complexity in setting up and maintaining test cases.

Another issue was the difficulty in achieving high test coverage due to UI elements that were hard to test. Many aspects required manual verification, making the process more time-consuming and less efficient.

Additionally, balancing the workload alongside other school assignments made time management a constant challenge. Coordinating schedules and prioritizing tasks became essential to keeping the project on track.

Best,

Team 6

Scrum Master Jonne