

Weekly Report

Software Developers – Batch 7

09/02/2026 – 13/02/2026

Team Members:

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Executive Summary

As part of the **Sprint 6 Assignment**, the team converted the previously developed application from a monolithic structure into a **microservices architecture**. The redesign included implementation of **API Gateway**, **Service Discovery**, **Kafka-based communication**, and **Resilience4j**, along with frontend integration using **React + Redux**.

The implementation is complete and pending technical review.

Sprint Status Overview

Sprint	Start	End	Focus Area	Key Coverage	Progress
Sprint 6	16 Jan	Ongoing	Microservices Architecture	Monolithic migration, Kafka, Resilience4j, React + Redux, Unit Testing	95%

Work Completed

- Completed **monolithic to microservices migration**.
- Implemented **Service Discovery**, **API Gateway**, **Kafka**, and **Resilience4j**.
- Integrated **React + Redux frontend**.
- Ensured quality through **unit testing**, **accessibility considerations**, and **coding best practices**.

Technical Impact

- Enabled **scalable and resilient microservices architecture**.
- Improved **fault tolerance** and asynchronous communication capability.
- Established foundation for **production-ready distributed deployment**.

Pending

- **Final technical review** scheduled for Monday.

Current Status: Implementation complete. Technical review pending.