# JobQuest Navigator – Week 4 Sprint Document

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Course Code: CAA900

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## 1. Sprint Goals

Officially kick off development by completing the code and API implementation for EPIC1. Use EPIC1 as a reference to align the entire team on working methodologies, tools, and processes. Additionally, finalize any outstanding microservices and UI/UX designs that were not completed during the overall design phase.

## 2. Tasks

* Complete the detailed design of the API Gateway YAML configuration file. **Done**
* Finalize the functional and interface design for all microservices. **Done**
* Complete the UI/UX design for the entire application. **Done**
* Validate the EPIC1 Job API endpoints and ensure synchronization with the local database. **Done**
* Complete the main program development for EPIC1. **Done**
* Standardize and pilot internal Agile tools and development workflows. **Done**

## 3. Key Features Being Developed

* epic1\_job\_map\_main.py – Core functionality for EPIC1
* epic1\_job\_to\_mysql.py – Data ingestion from EPIC1 API
* job-data-service-openapi.yaml – API Gateway configuration

## 4. Progress Overview This week, we completed EPIC1, which involved importing data from external API sources and matching job opportunities to users based on their IP address. During development, we identified inconsistencies in team members’ understanding of Agile practices, tooling, and overall workflow. Through this sprint, we successfully aligned on tools and standardized our development processes. In the next phase, we will begin developing our respective components and enable frontend-to-backend microservice communication via APIs.

## 6. Workflow and Tools Used

- Jira is used for requirement traceability.

- GitHub Projects is used for issue tracking, sprint boards, and automation.

- All user stories and tasks have GitHub Issues with labels and links to the PRD.

- Backend: Django (Django REST Framework)

- MongoDB (for unstructured data, AI suggestions), MySQL (for structured data)

- Google Maps API (job mapping functionality)

- OpenAI API (AI suggestions, interview questions)

- Adzuna API Job Bank (job data integration)