Agile Scrum Master Course

Project title: Smart Weather (With Jira)

Submitted By:

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1. DESCRIPTION:

The purpose of the project is to apply the concepts learned in the Agile Scrum Master course by analyzing a hypothetical organization.

Participants are encouraged to apply the techniques learned during the program but can also be creative in applying other techniques from other sources.

The steps may not always be carried out in the same sequence in real life. Participants may iterate through steps, as they may uncover ideas as they proceed from one step to the next.

2. Project Description:

GTM systems is a large IT company with offices all around the world. The company delivers software products and services to corporate clients. One of the reasons for its enduring success and consistent performance over the years is the ability to leverage technology and find innovative applications for it.

3. Smart Weather:

With climate change increasing the unpredictability of local weather conditions, there has been great demand for technology that can provide reliable weather information. Weather conditions impact several organizations and businesses – ranging from agriculture, outdoor event management, hospitality, travel and tourism, and healthcare.

While GTM has no expertise in meteorology, it proposes to aggregate weather data from multiple providers and use analytics to correlate it with meaningful conclusions for businesses.

Example use cases could be generating forecasts based on local weather conditions around:

1. Consumption of hot versus cold beverages depending on cold, sunny, or rainy weather
2. Number of visitors to a tourist site or an open-air entertainment event
3. Likelihood of seasonal illnesses such as flu in particular locations

The main system will comprise a web portal and a set of “apps” available on the popular mobile operating systems. Apart from this, clients can ask for specific services or apps based on the insights that the analytics can generate.

4. **Backlog for the main portal:**

Work items
Enable registration for free and paid users
Build integrations with public weather services around the world
Detect locations based on GPS (if on a device) or IP
Create a schema and a database for storing weather data based on location
Build logic to reconcile and aggregate data from multiple service providers
Access control for paid services
Provide severe weather advisory to registered users on the portal
Have provisions for advertisements on the portal and apps
Show current weather at a location
Show forecasts for five, ten, and fifteen days at a location
Provide seasonal forecasts like seasonal precipitation and temperatures
Show satellite images
Show time-lapse videos of satellite forecasts
Make a responsive design for the portal (usable for different devices and form factors)
Publish API or Services for client apps
Create apps for iOS and Android phones

5. **Project task**

Based on the above scenario, you are expected to perform the following tasks.

1. Identify at least five epics and 15 user stories from the case above(use your interpretation and independent research). Link the stories to the epics.
2. Get a free JIRA account and create a Scrum project.
3. Enter the backlog (epics, stories and subtasks) in JIRA.
4. Make a tentative release plan, by assigning the stories to three sprints.
5. Start and complete one sprint.
6. Submit screenshots of: Epics, Backlog, release plan, and Scrum board with tasks in various states.

Jira Software is an agile project management tool that supports any agile methodology. From agile boards, backlogs, roadmaps, reports, to integrations and add-ons you can plan, track, and manage all your agile software development projects from a single tool.

(Screenshots of Jira Software):

Identify at least five epics and 15 user stories from the case above. Link the stories to the epics.

Five Epics:

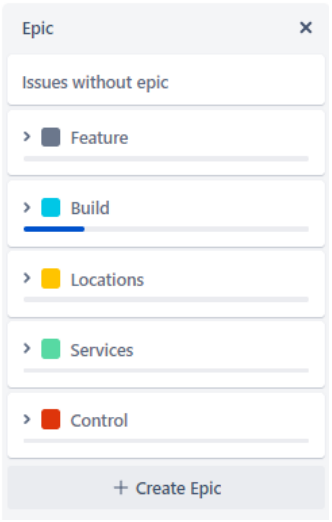

Figure 0: All Five Epics.

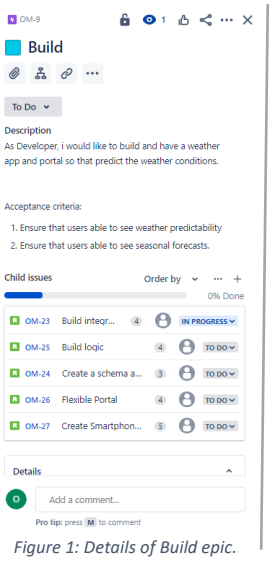

Figure 1: Details of Build epic.

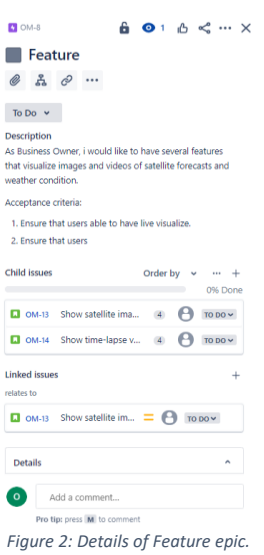

Figure 2: Details of Feature epic.

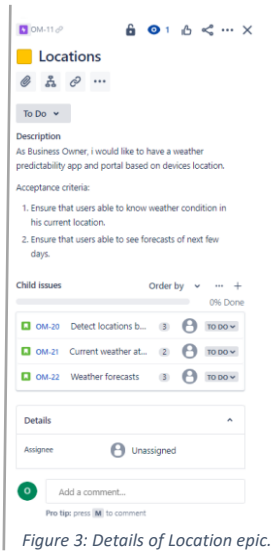

Figure 3: Details of Location epic.

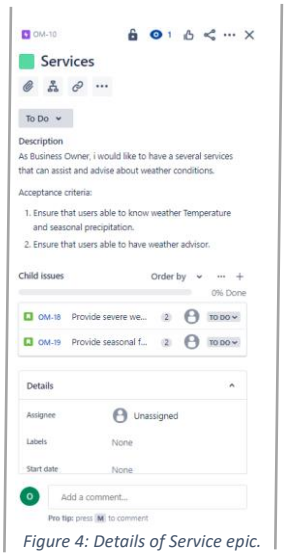

Figure 4: Details of Service epic.

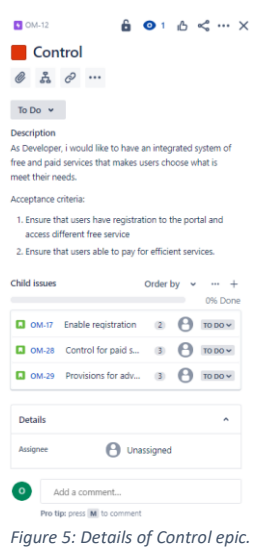

Figure 5: Details of Control epic.

15 user stories:

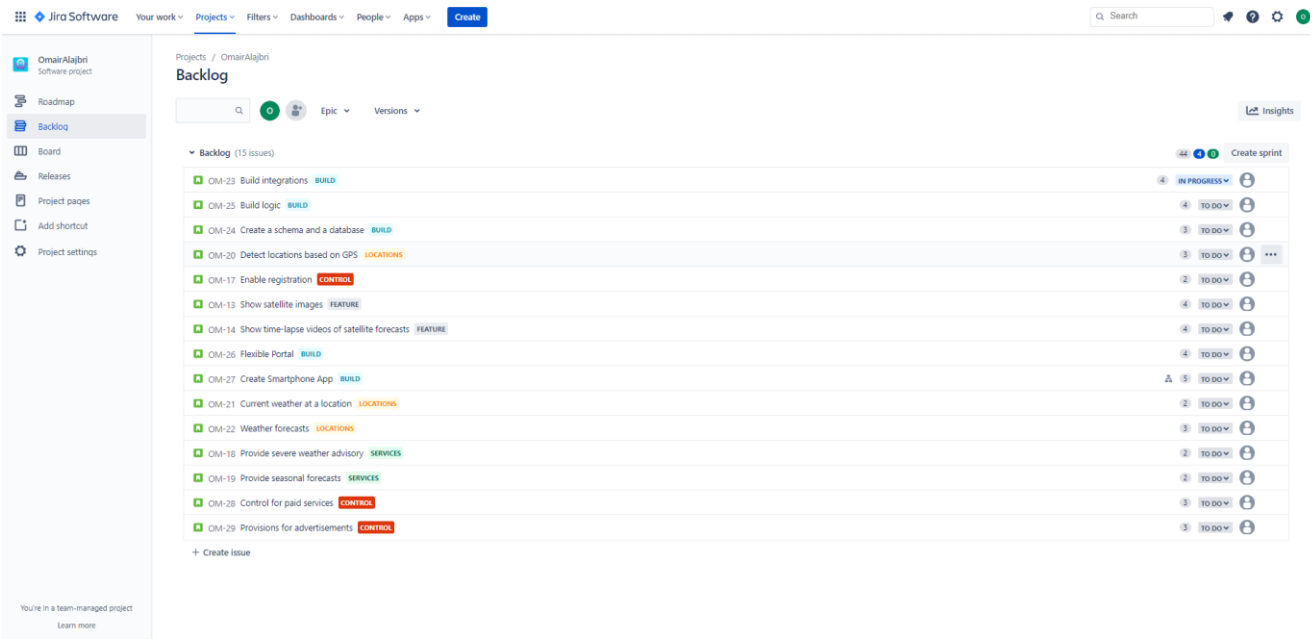

Figure 6: All 15 Stories

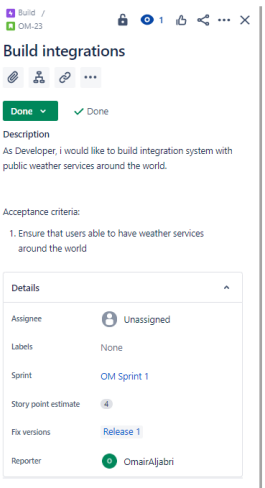

Figure 7: Build Integration story.

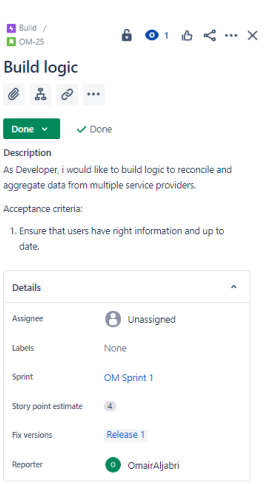

Figure 8: Build logic story.

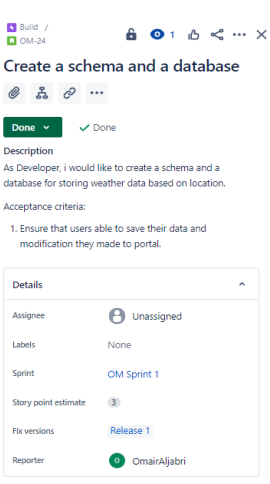

Figure 9: Create schema and DB story.

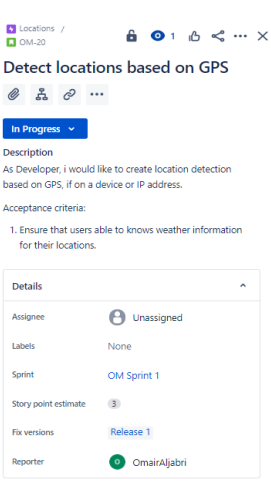

Figure 10: Detect Location Story

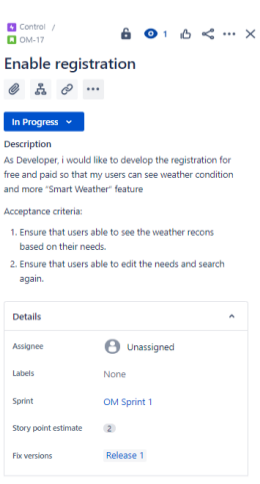

Figure 11: Enable registration.

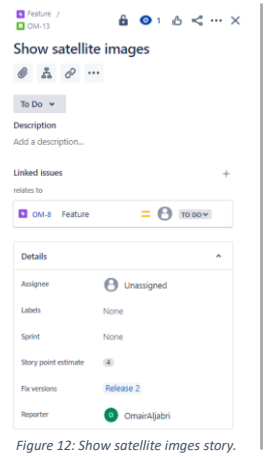

Figure 12: Show satellite imges story.

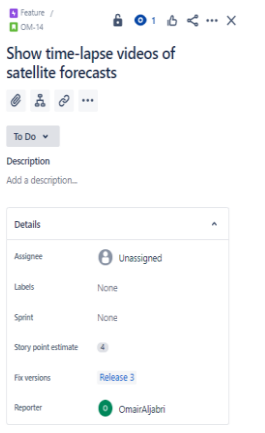

Figure 13: Show time-lapse story.

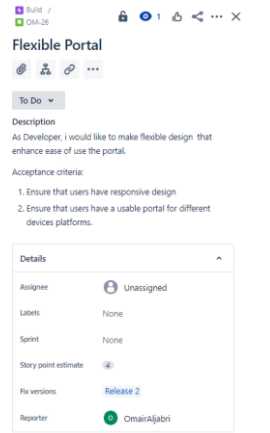

Figure 14: Flexible Portal Story.

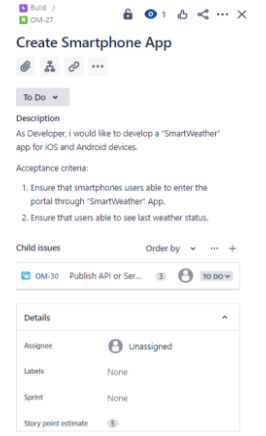

Figure 15: Create App story.

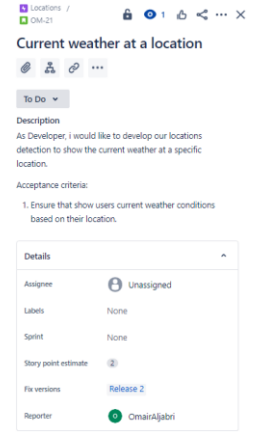

Figure 16: Current weather story.

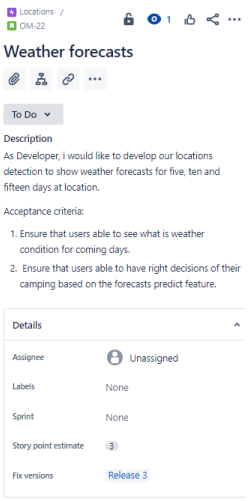

Figure 17: Weather Forecasts story.

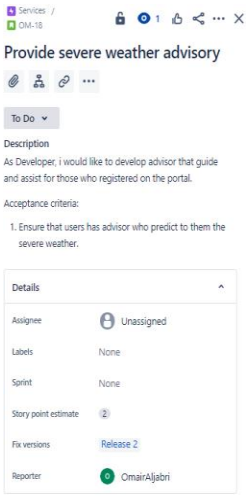

Figure 18: Provide weather advisory

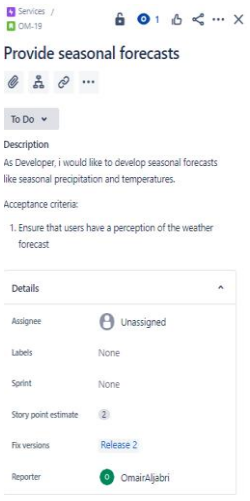

Figure 19: Seasonal forecasts story.

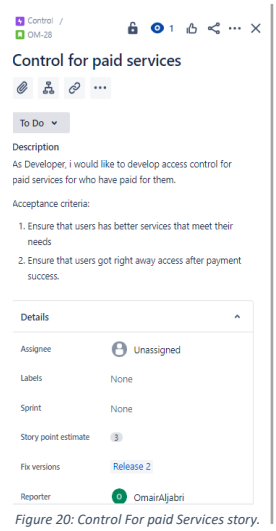

Figure 20: Control For paid Services story.

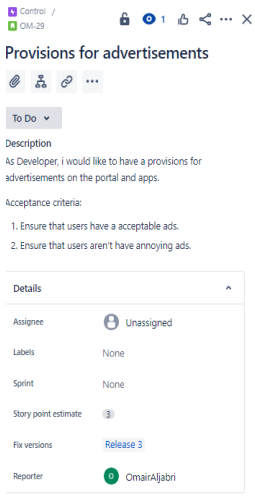

Figure 21: Provisions story.

Release plan:

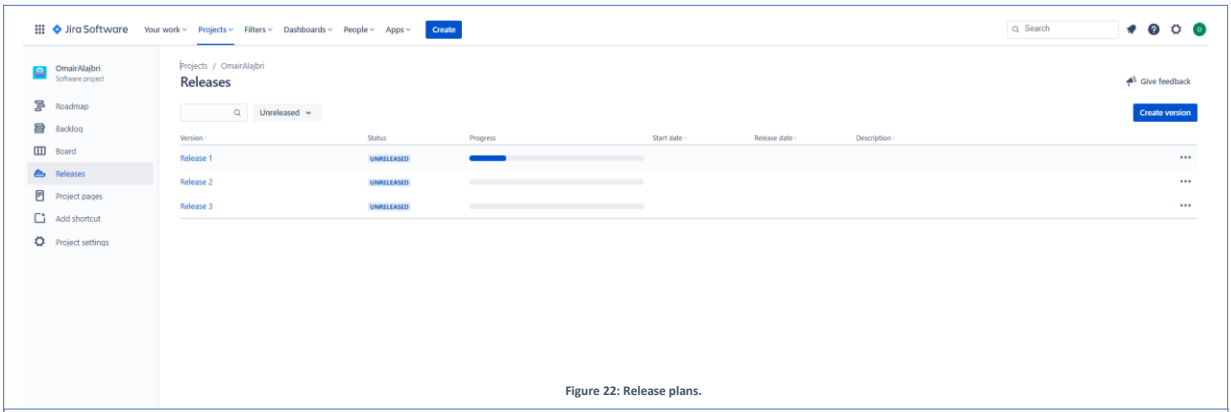

Figure 22: Release plans.

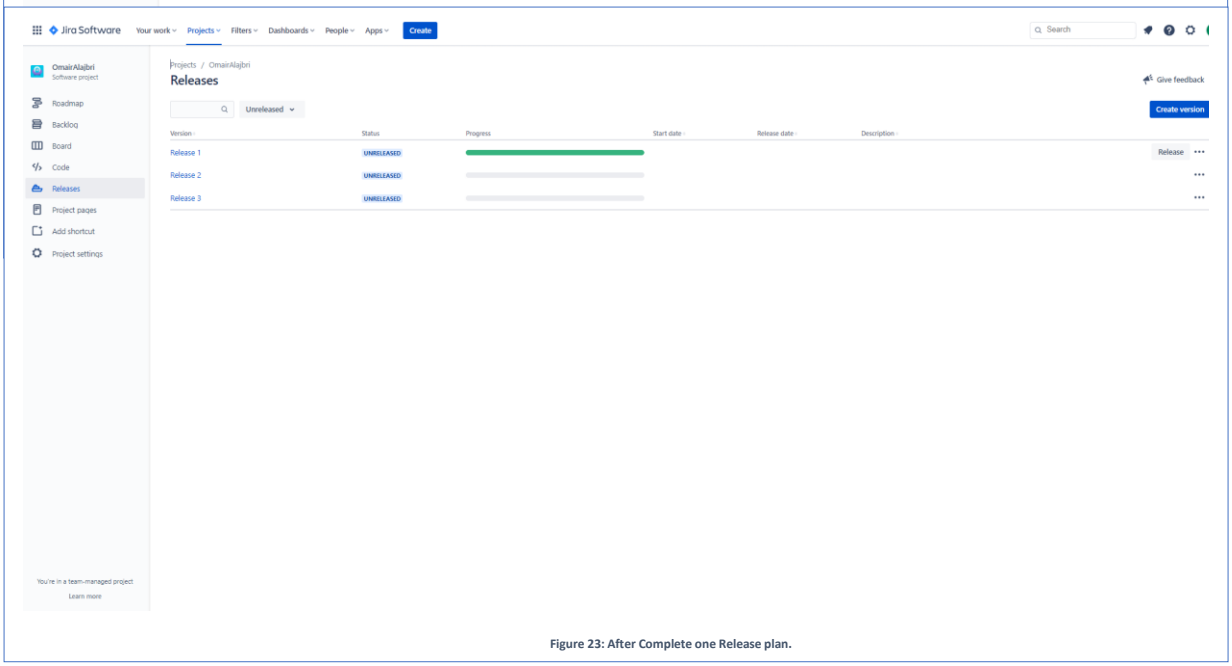

Figure 23: After Complete one Release plan.

Complete one sprint:

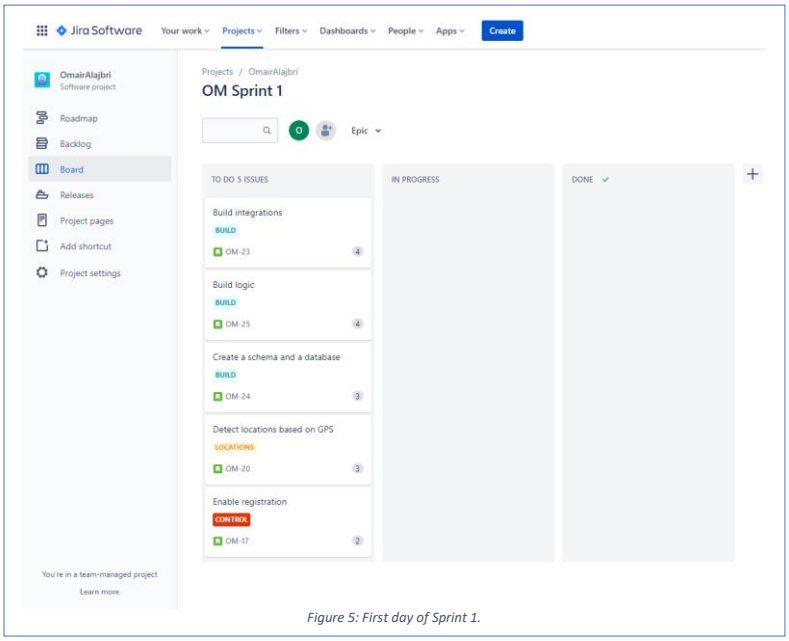

Figure 5: First day of Sprint 1.

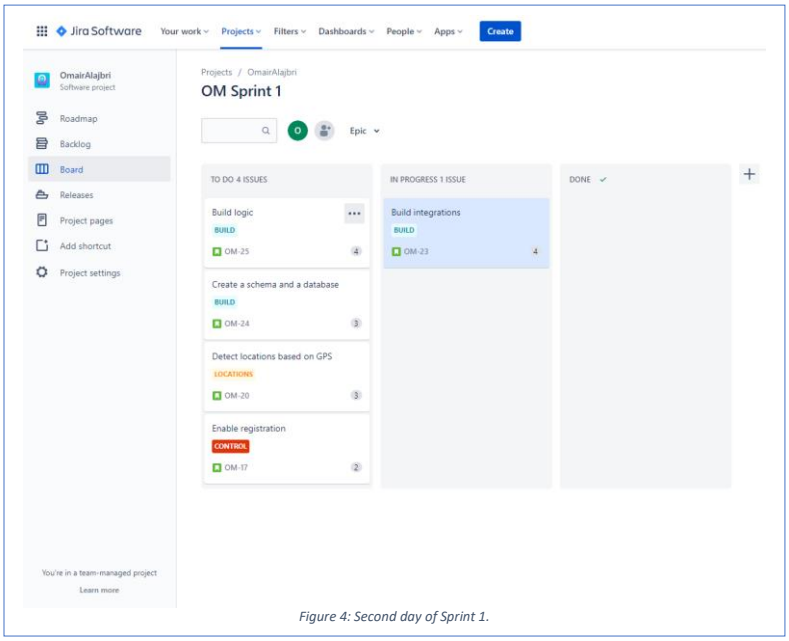

Figure 4: Second day of Sprint 1.

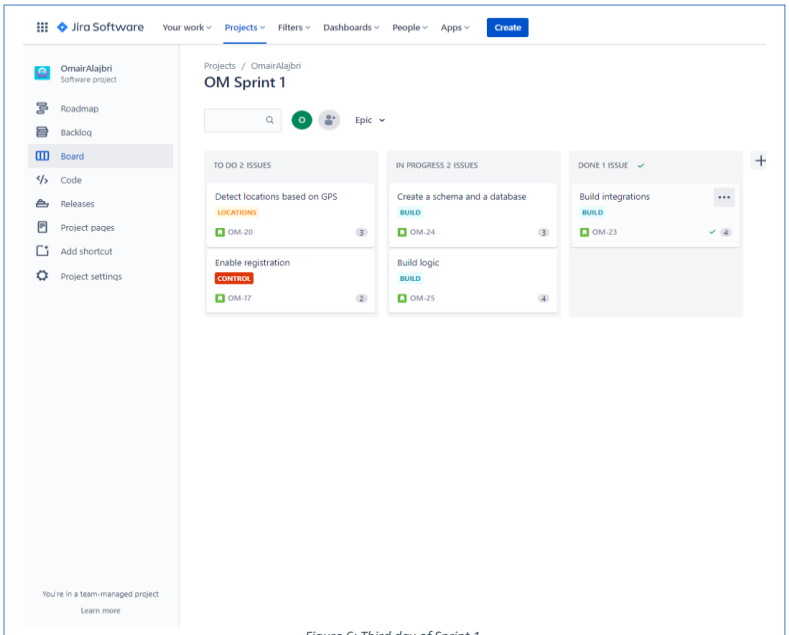

Figure 6: Third day of Sprint 1.

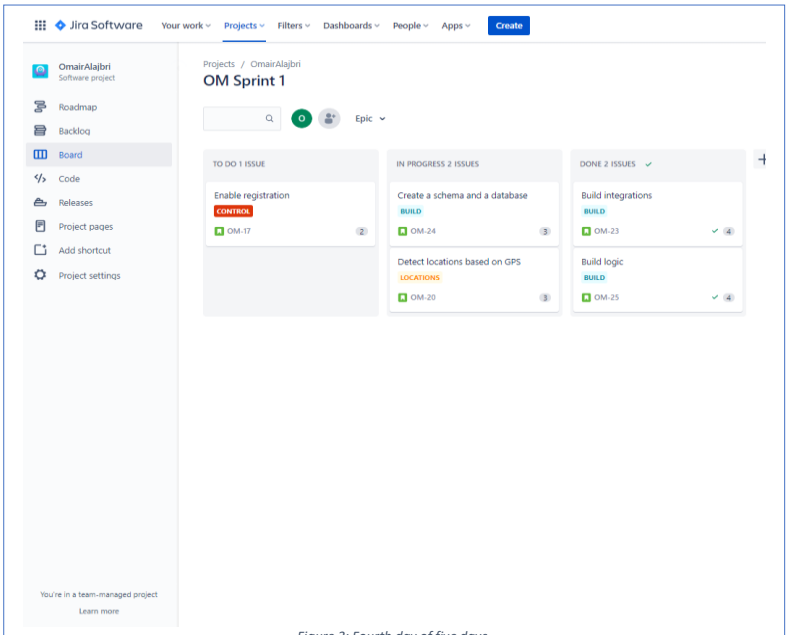

Figure 3: Fourth day of five days.

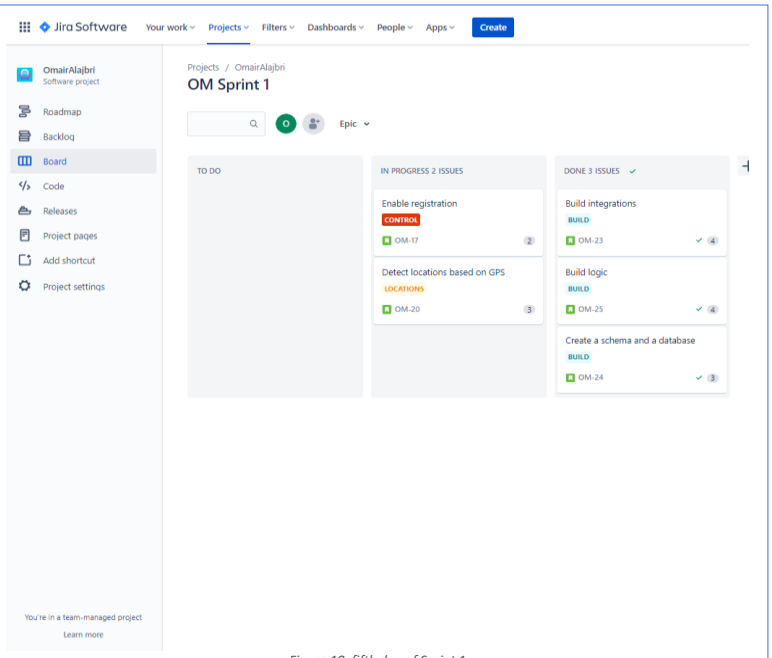

Figure 10: fifth day of Sprint 1

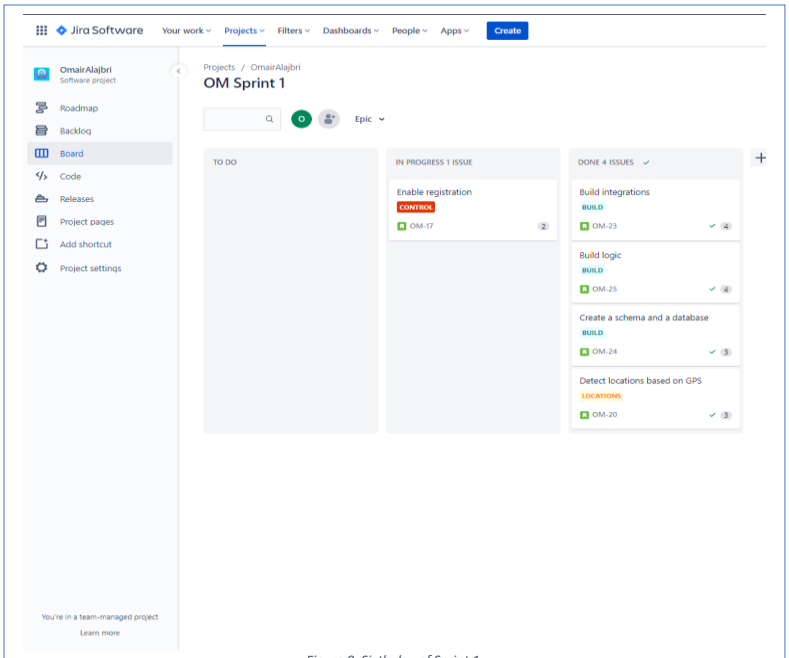

Figure 9: Sixth day of Sprint 1.

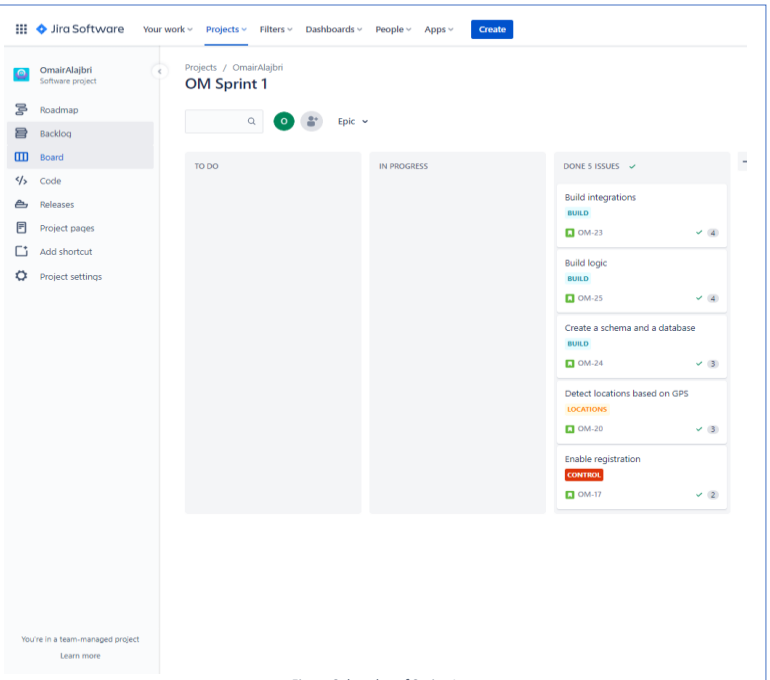

Figure 8: last day of Sprint 1.