# Project Planning Phase

## Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

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|---|---|
| Date | 27 October 2022 |
| Team ID | PNT2022TMID26770 |
| Project Name | Natural disasters intensity analysis and classification using artificial intelligence |
| Maximum Marks | 8 Marks |

## Product Backlog, Sprint Schedule, and Estimation (4 Marks)

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|---|---|---|---|---|---|---|
| Sprint-1 | Registration | USN-1 | As a user, I can register for the application by entering my email, password, and confirming that. | 2 | Low | Priyatharshini |
| Sprint-1 | | USN-2 | As a user, I will receive confirmation email once I have registered for the application. | 3 | High | Annapoorani |
| Sprint-1 | Login | USN-3 | As a user, I adapt to logging into the system with credentials. | 2 | Low | Ranjani |
| Sprint-1 | Designation of Region | USN-4 | As a user, I can collect the dataset and select the region of interest to be monitored and analyzed. | 5 | Medium | Priyanka |
| Sprint-1 | Analysis of required phenomenon | USN-5 | As a user, I can regulate certain factors influencing the action and report on past event analysis. | 4 | High | Priyatharshini |
| Sprint-1 | Algorithm selection | USN-6 | As a user, I can choose the required algorithm for specific analysis. | 4 | Medium | Annapoorani |
| Sprint-1 | Training and Testing | USN-7 | As a user, I can train and test the model using the algorithm. | 4 | High | Ranjani |
| Sprint-1 | Detection and analysis of data | USN-8 | As a user, I can detect and visualize the data effectively. | 4 | High | Priyanka |

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|---|---|---|---|---|---|---|
| Sprint 2 | Create and configure IBMcloud services | USN-9 | As a user I need to enrolL thecloud registration | 3 | Medium | Priyatharshini |
| Sprint 2 | | USN-10 | As a user, I will create IBM cloud Account Watson AI platformby accessing cloud account | 7 | High | Annapoorani |
| Sprint 2 | | USN-11 | After creating node get device type and id | 1 | Low | Ranjani |
| Sprint 2 | | USN-12 | Simulate the node created | 3 | Medium | Priyanka |
| Sprint 3 | Create a database in Cloud DB | USN-13 | Launch the cloud DB andcreate database to store the location data | 4 | High | Priyatharshini |
| Sprint 3 | Develop the Python script | USN-14 | Install the python software | 2 | Low | Annapoorani |
| Sprint 3 | | USN-15 | Develop the python flask topublish details to IBM AI platform | 6 | High | Ranjani |
| Sprint 3 | | USN-16 | Integrate the device ID , authentication token in python flask | 2 | Low | Priyanka |
| Sprint 3 | | USN-17 | Develop the python code for publishing the location (latitude & longitude) to IBM AI platform | 8 | High | Priyatharshini |
| Sprint 4 | Create the Web application using node Red | USN-18 | As a user, I can buildwith the web application. | 5 | High | Annapoorani |
| Sprint 4 | | USN-19 | Connect the IBM AI platform and get the location and store the data in the cloud | 2 | Medium | Ranjani |
| Sprint 4 | | USN-20 | Create the multilayered deep convolution neural network mode that tells the intensity ofdisaster a | 8 | High | Annapoorani |

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|---|---|---|---|---|---|---|
| Sprint 4 | | USN-21 | Send the notification is the webcam to capture the video frame | 4 | High | Priyatharshini |

## Project Tracker, Velocity & Burndown Chart: (4 Marks)

| Sprint | Total Story Points | Duration | Sprint Start Date | Sprint End Date (Planned) | Story Points Completed (as on Planned End Date) | Sprint Release Date (Actual) |
|---|---|---|---|---|---|---|
| Sprint-1 | 20 | 6 Days | 24 Oct 2022 | 31 Oct 2022 | 20 | 31 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 20 | 05 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 20 | 12 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 20 | 19 Nov 2022 |

## Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

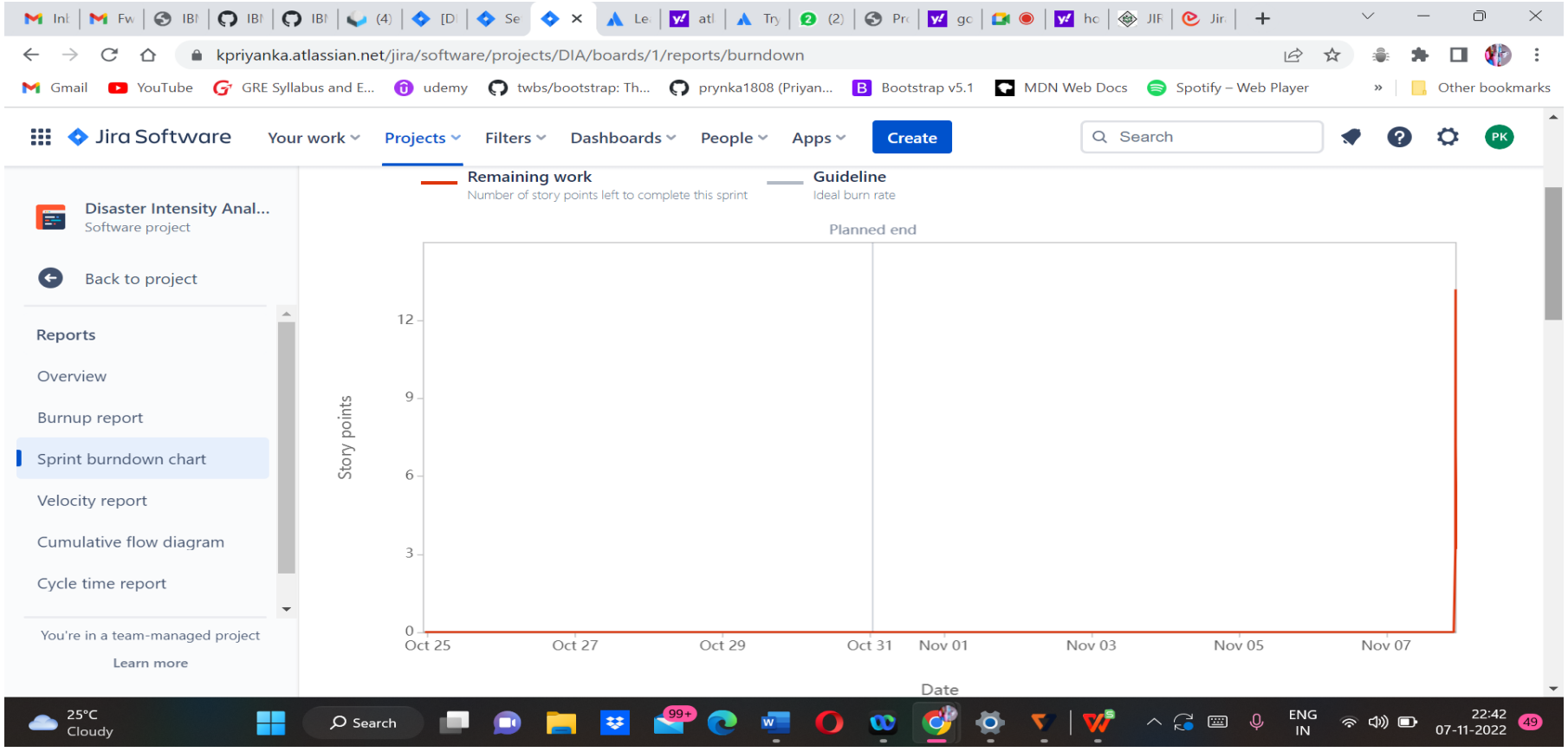
Average velocity=Sprint duration / velocity=20/6=3

| Sprint | Total Story Points | Duration | Average Velocity |
|---|---|---|---|
| Sprint-1 | 28 | 6 | 4.6 |
| Sprint-2 | 14 | 6 | 2.3 |
| Sprint-3 | 22 | 6 | 3.6 |
| Sprint-4 | 19 | 6 | 3.1 |
| Total Sprint | 83 | 24 | 3.4 |

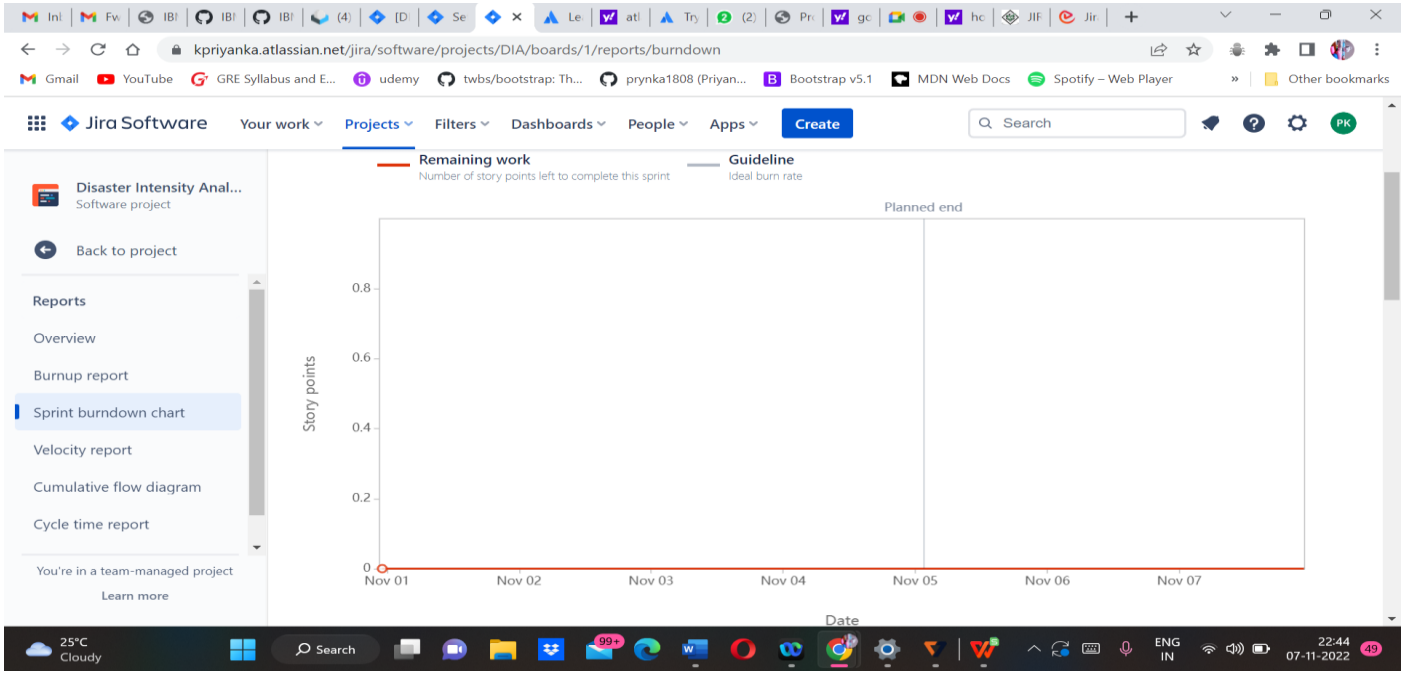
## Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

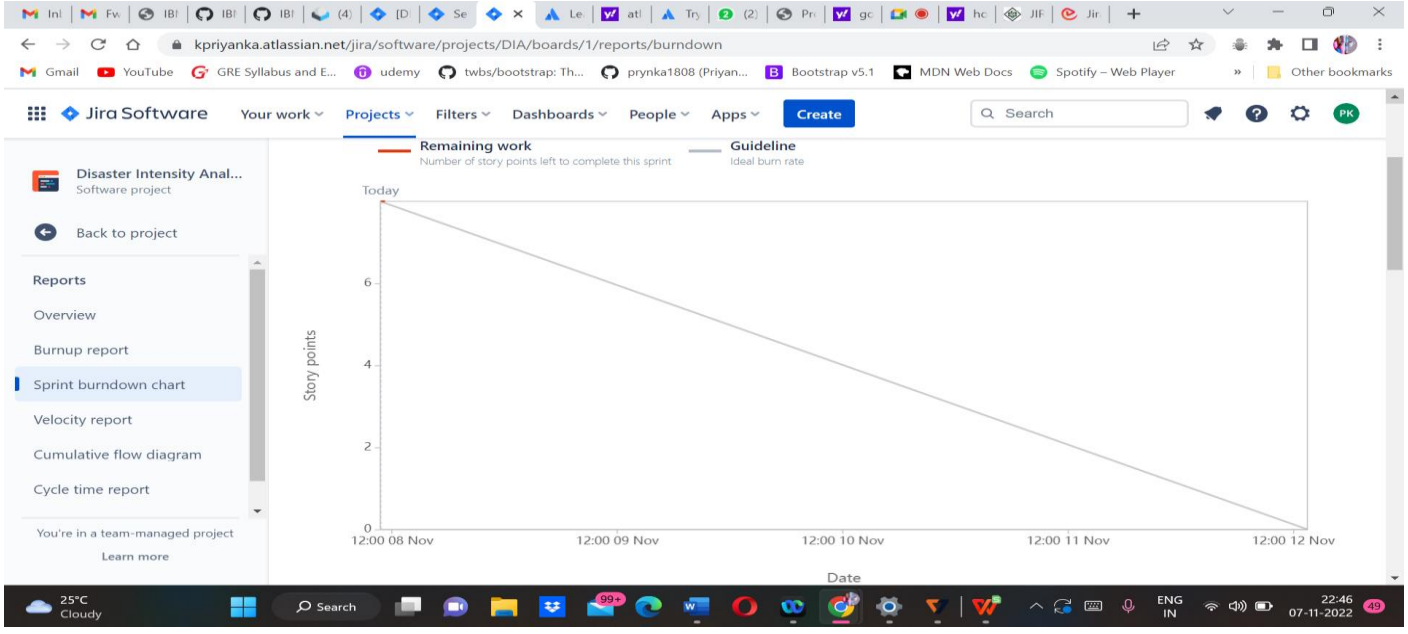
### Sprint-1:



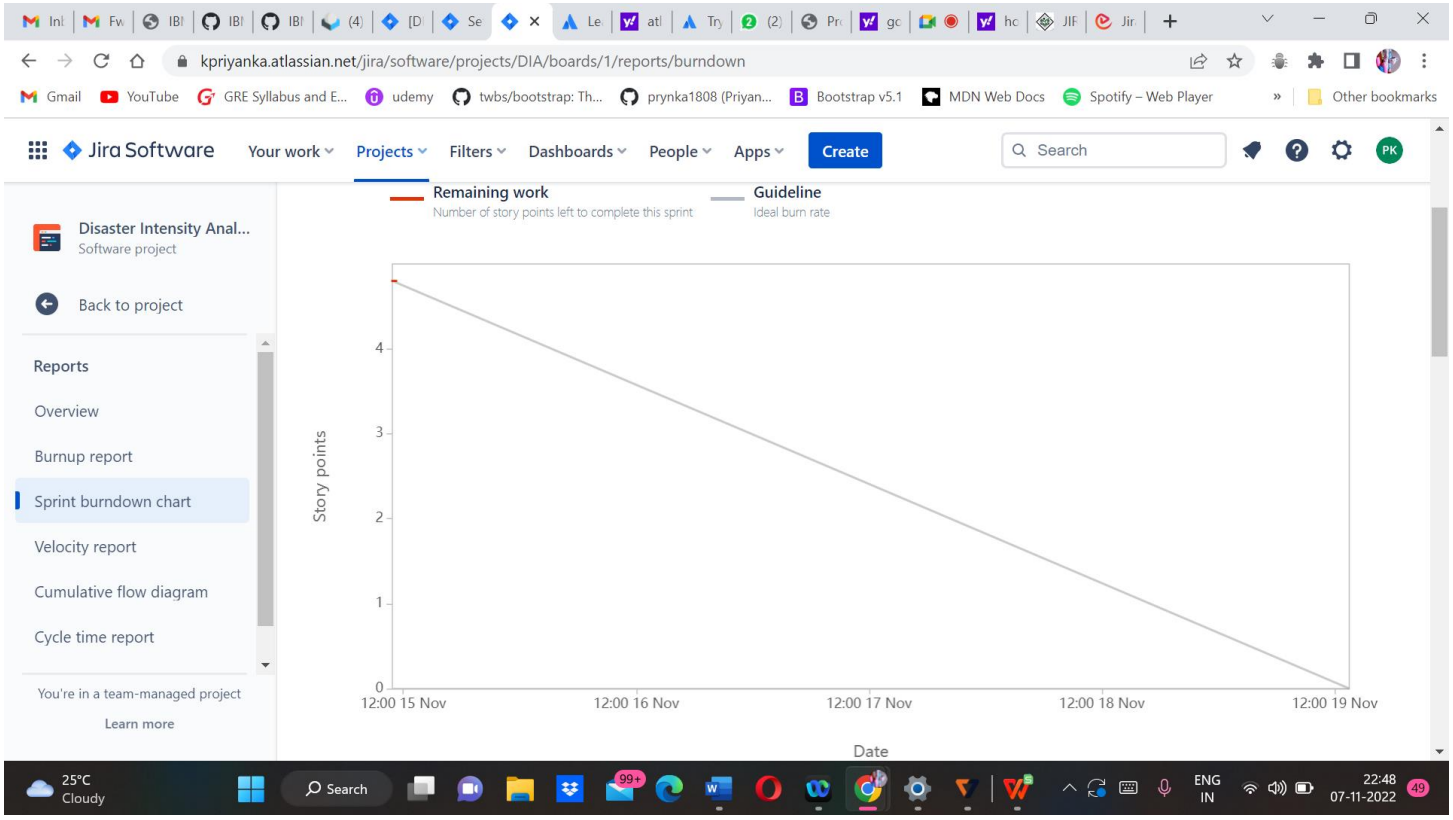
## Sprint-2:




## Sprint-3:



## Sprint-4: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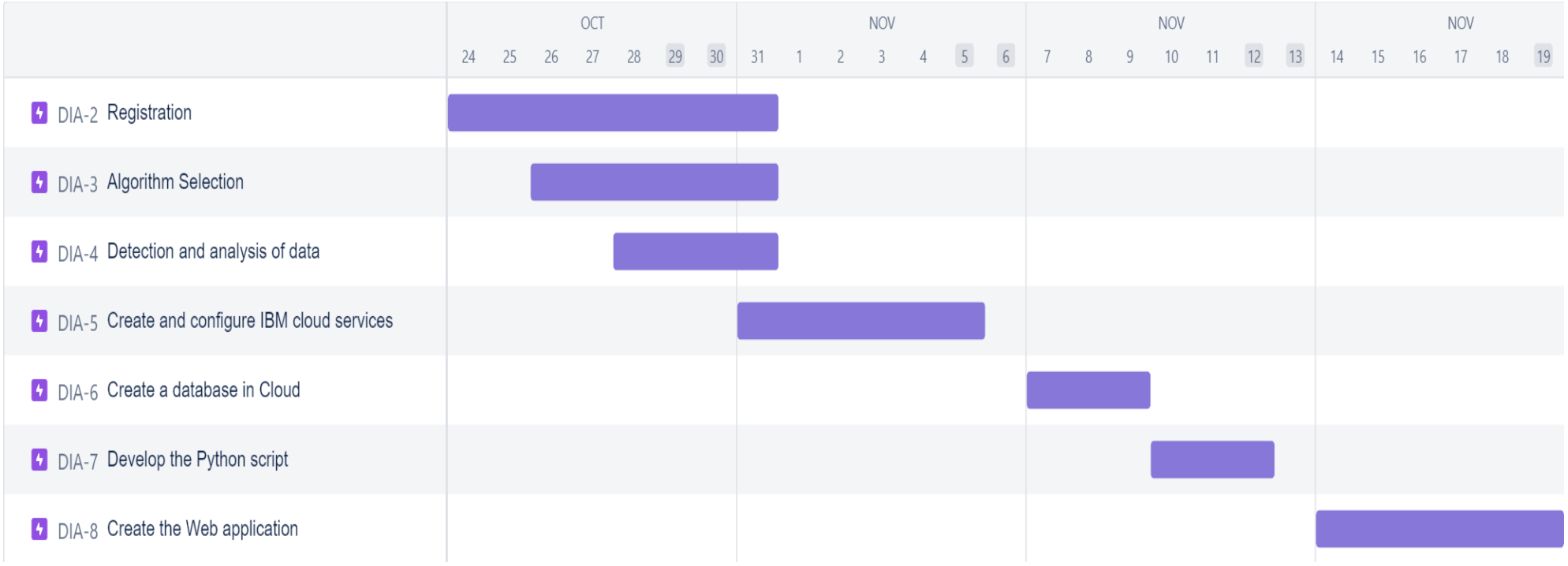
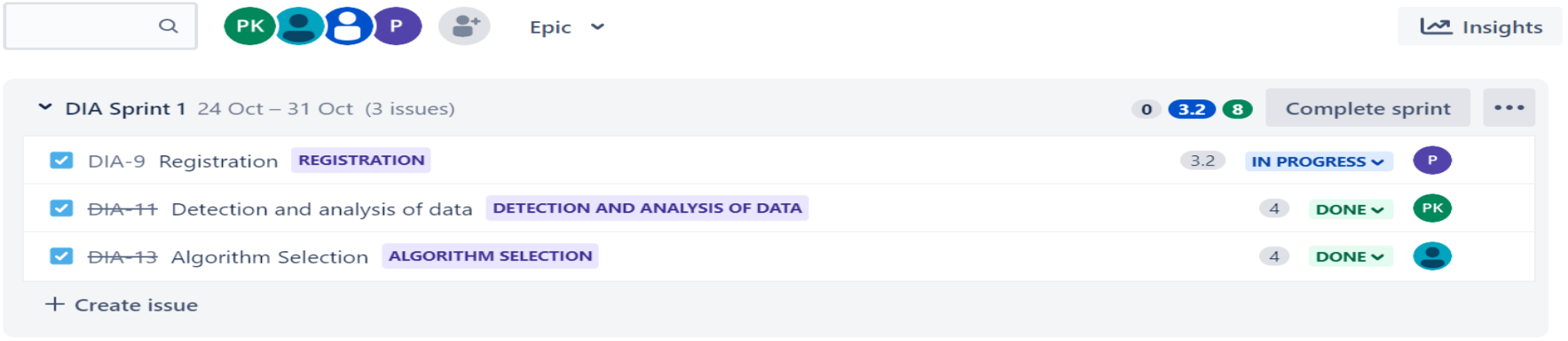
Jira Software
Your work
Projects
Filters
Dashboards
People
Apps
Create
Search
Disaster Intensity Anal...
Software project
Back to project
Reports
Overview
Burnup report
Sprint burndown chart
Velocity report
Cumulative flow diagram
Cycle time report
You're in a team-managed project
Learn more
Remaining work
Number of story points left to complete this sprint
Guideline
Ideal burn rate
Story points
0
1
2
3
4
12:00 15 Nov
12:00 16 Nov
12:00 17 Nov
12:00 18 Nov
12:00 19 Nov
Date
25°C
Cloudy
Search
ENG
IN
22:48
07-11-2022

## RoadMap:

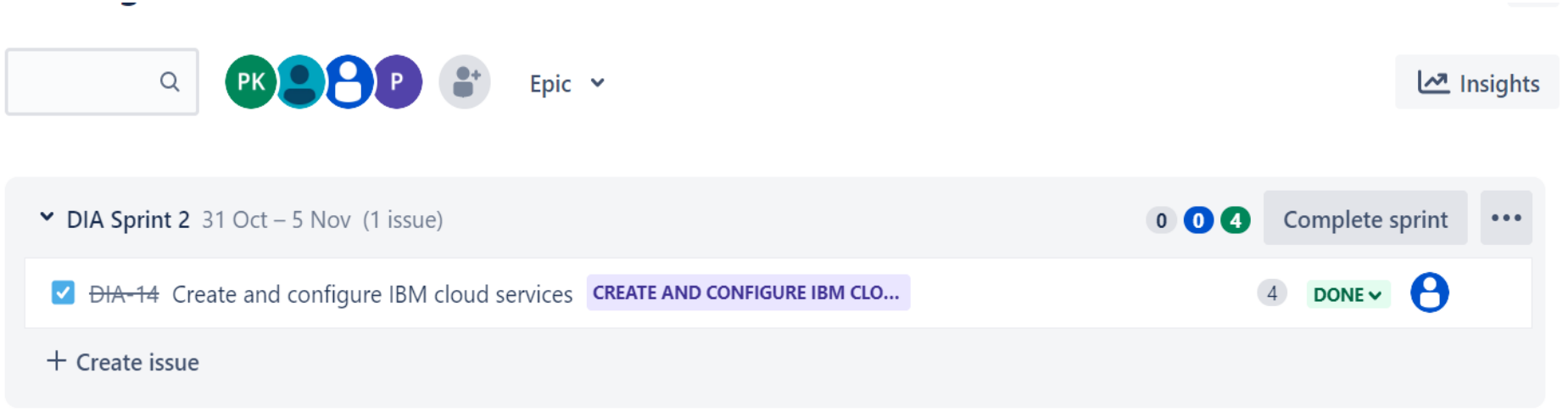



## Back Log:

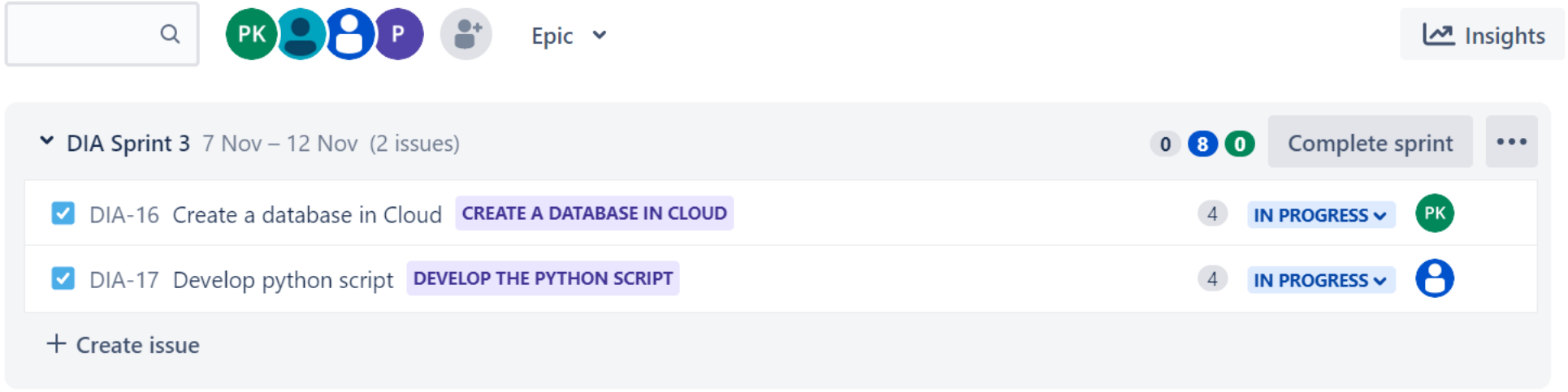
### Sprint-1:



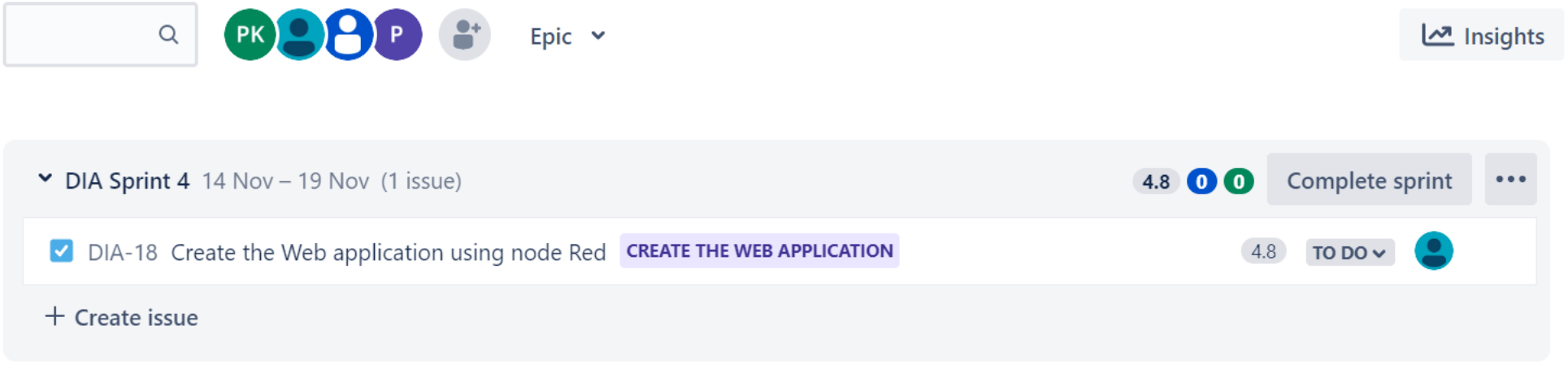
**Sprint-2:**



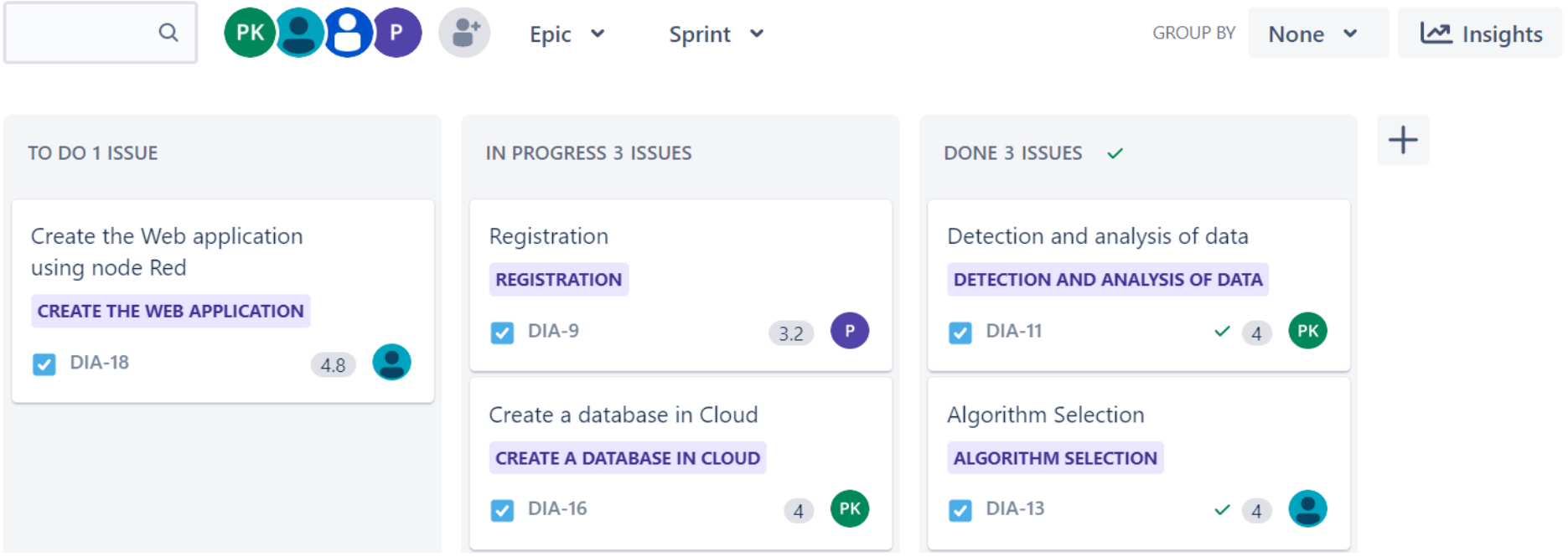

**Sprint-3:**

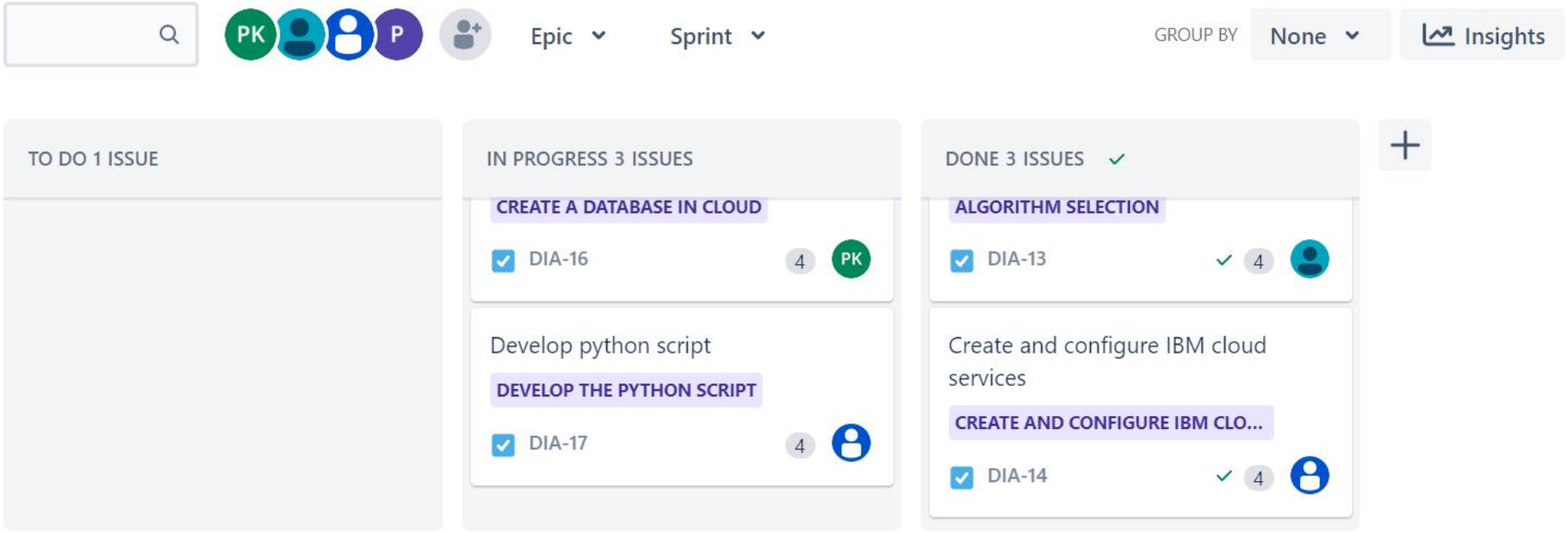


**Sprint-4:**




## Board:




PK
P
Epic
Sprint
GROUP BY
None
Insights
TO DO 1 ISSUE
IN PROGRESS 3 ISSUES
DONE 3 ISSUES
CREATE A DATABASE IN CLOUD
DIA-16
4
PK
ALGORITHM SELECTION
DIA-13
4
Develop python script
DEVELOP THE PYTHON SCRIPT
DIA-17
4
Create and configure IBM cloud services
CREATE AND CONFIGURE IBM CLO...
DIA-14
4