

## Project Planning Phase

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

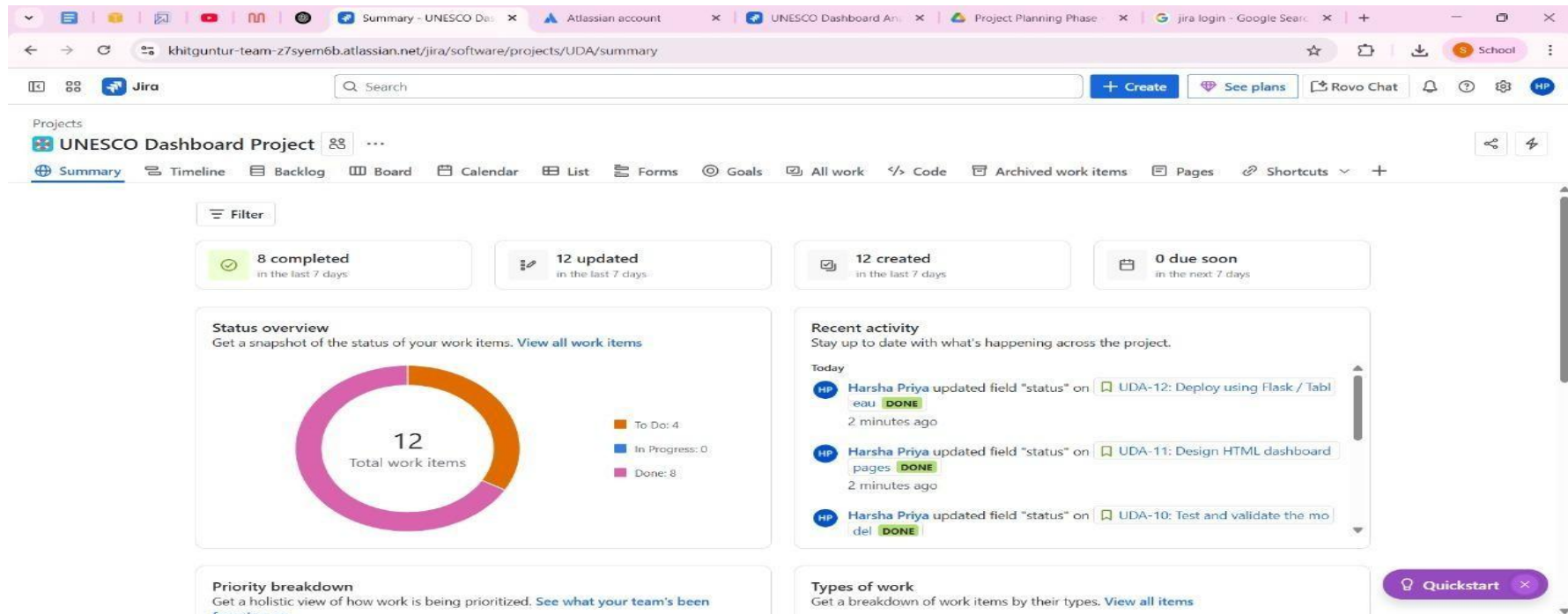
Date	15 February 2025
Team ID	LTVIP2025MID50263
Project Name	Heritage Treasures
Maximum Marks	5 Marks

#### 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	Data Collection	UDA-1	As a user, I can collect data from multiple heritage data sources	2	High	HarshaPriya, Hemesh
Sprint-1	Data Collection	UDA-2	As a user, I can load the data into structured format	1	High	Harsha Priya
Sprint-1	Data Preprocessing	UDA-3	As a user, I can handle missing values to clean the data	3	High	Hemesh
Sprint-1	Data Preprocessing	UDA-4	As a user, I can encode categorical variables for visualization	2	Medium	HarshaPriya
Sprint-2	Model Building	UDA-5	As a user, I can build a model for generating visual insight	5	High	Harsha Priya, Hemesh
Sprint-2	Model Building	UDA-6	As a user, I can test and validate the model for correctness	3	High	Hemesh
Sprint-2	Deployment	UDA-7	As a user, I can design HTML dashboard pages	3	Medium	HarshaPriya
Sprint-2	Deployment	UDA-8	As a user, I can deploy the dashboard using Flask / Tableau	5	High	Harsha Priya, Hemesh

## 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	8	5 days	20 June 2025	24 June 2025	8	24 June 2025
Sprint-2	16	5 days	25 June 2025	24 June 2025	16	2 June 2025

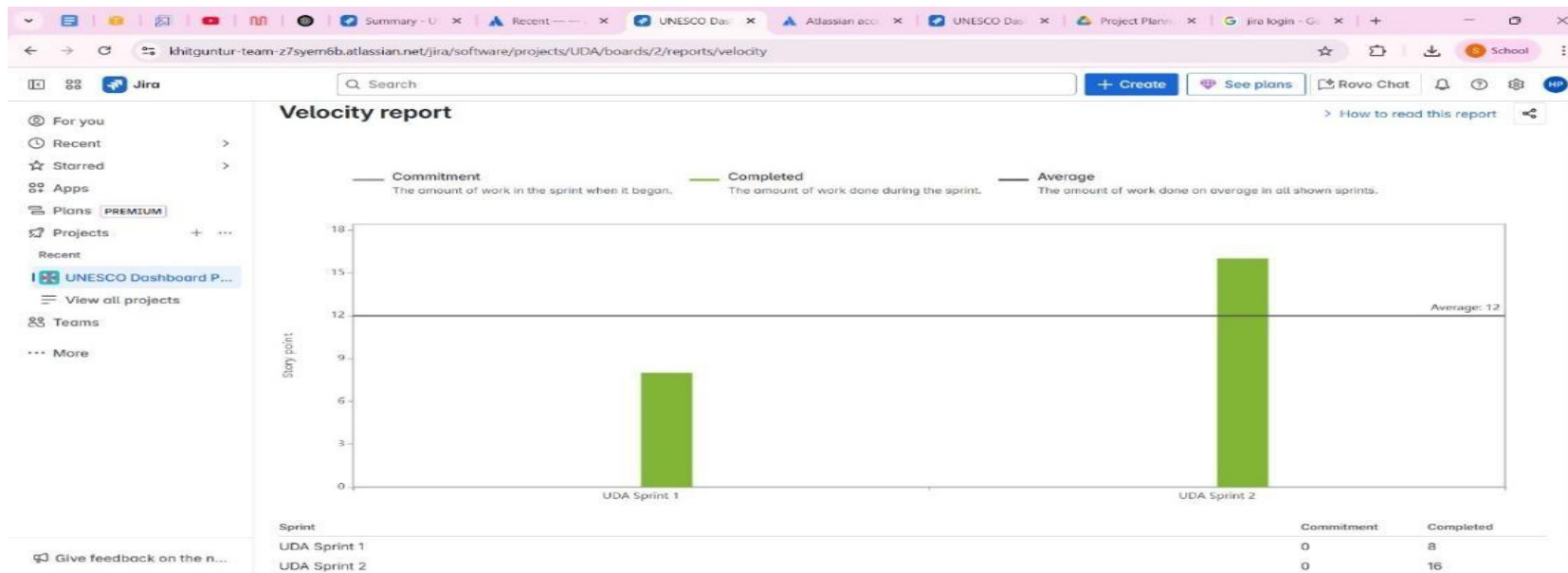


## Velocity:

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)

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{10} = 2$$

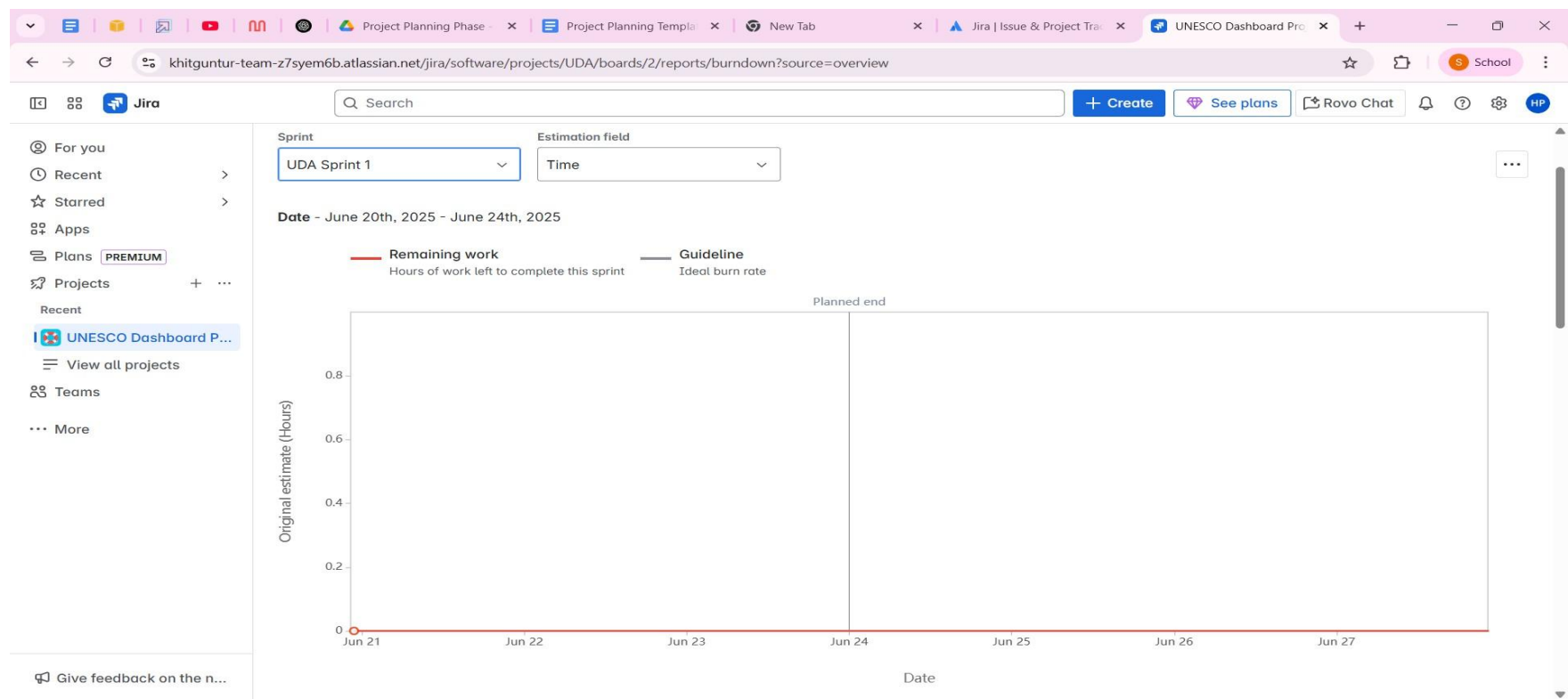
**Average Team Velocity = Total Story Points Completed / Number of Sprints = (8 + 16) / 2 = 12 Story Points per Sprint** This consistent velocity indicates well-balanced sprint planning and execution.



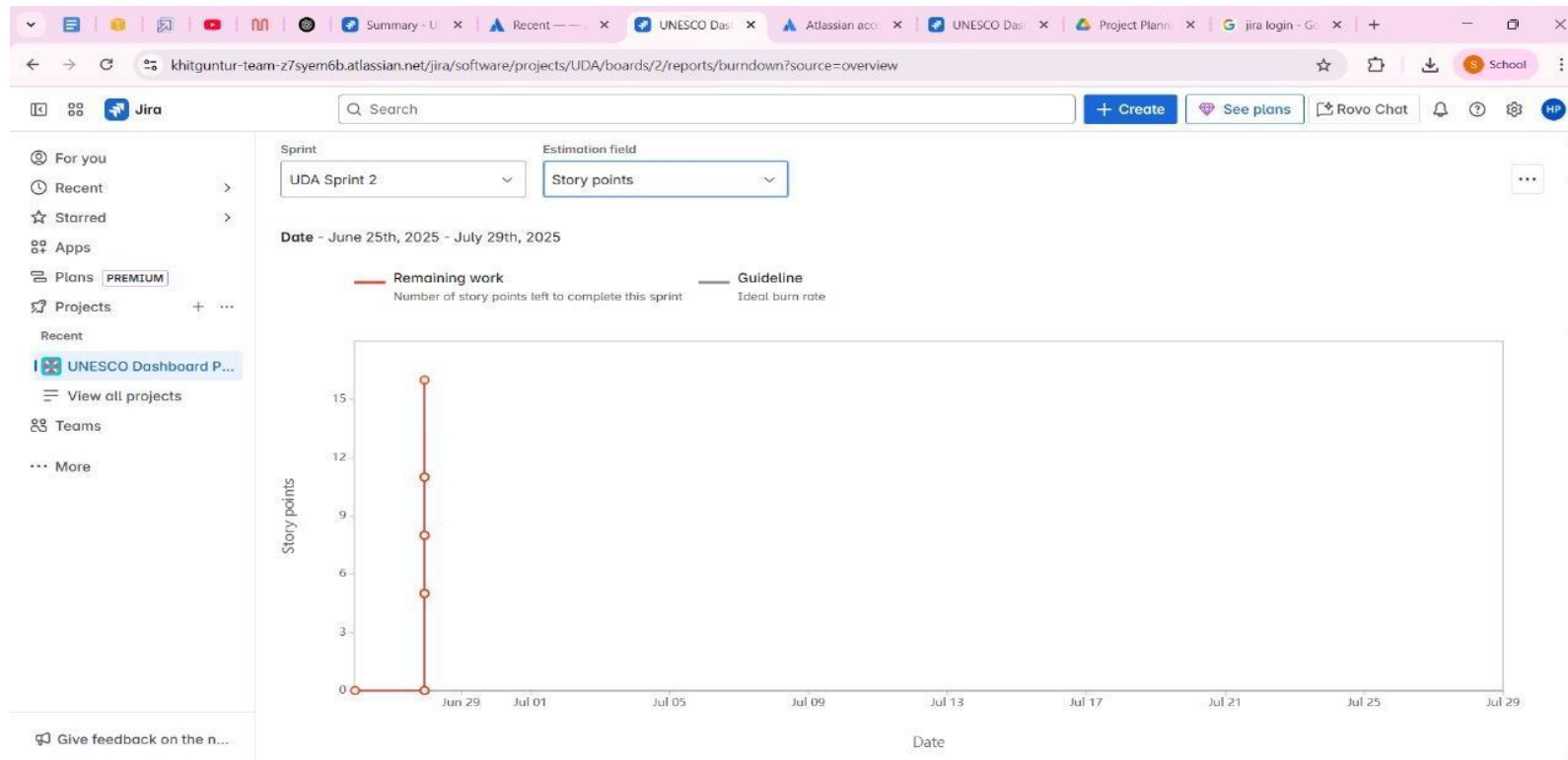
Burndown Chart:

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.

9 UDA Sprint 1 Burndown Chart - work left to do versus time: Completed with early closure, indicating bulk completion of tasks



⑨ UDA Sprint 2 Burndown Chart - work left to do versus time: Completed with early closure, indicating bulk completion of tasks



Both charts were generated from the JIRA reports using Time as the estimation field. As we already used 'SCRUM' as a key for another project the jira itself gave a key UDA- 1.

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

**Reference:**

<https://www.atlassian.com/agile/project-management>

<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>

<https://www.atlassian.com/agile/tutorials/epics>

<https://www.atlassian.com/agile/tutorials/sprints>

<https://www.atlassian.com/agile/project-management/estimation>

<https://www.atlassian.com/agile/tutorials/burndown-charts>