**A Sprint** fixed period or duration in which a team works to complete a set of tasks

An **Epic** is a **big task or project** that is too large to complete in one sprint. It is broken down into **smaller tasks (stories)** that can be completed over multiple sprints.

A **Story** is a small task . It is part of an **Epic**.

A **Story Point** is a number that represents how much effort a story takes to complete.

1. Very Easy task
2. Easy task
3. Moderate task
4. Difficult task

**Sprint Planning Logic (2-week cycle)**

**Sprint 1: Setup & Core Architecture**

* Define user stories and prioritize backlog
* Set up FastAPI backend and Streamlit UI
* Integrate IBM Granite LLM via Hugging Face or watsonx API
* Configure Pinecone for vector search
* Deploy basic chatbot interface

#### **Sprint 2: Core Features**

* Implement document upload and summarization
* Add eco-tip generation using prompt templates
* Enable citizen feedback form and storage
* Connect to IoT data (mock or real-time)

#### **Sprint 3: Intelligence & Forecasting**

* Add time-series forecasting (e.g., LSTM) for energy/water
* Implement anomaly detection logic
* Generate sustainability reports (PDF/Markdown)
* Add multilingual support

#### **Sprint 4: Security & Optimization**

* Add RBAC, TLS, and audit logging
* Optimize model prompts and caching
* Conduct usability testing and gather feedback
* Prepare for pilot deployment

Total Story Points

Sprint 1 = 15

Sprint 2 = 25

Sprint 3 = 25

Sprint 4 = 15

Velocity = Total Story Points Completed / Number of Sprints

Total Story Points = 15+25+25+15=80

No of Sprints = 4

Velocity = 80/4=20

our team’s velocity is 20 Story Points per Sprint.