

A Sprint is a fixed period (usually 2 weeks) during which the team completes a set of planned tasks.

An Epic is a large feature or functionality that cannot be completed in a single sprint. It is divided into smaller Stories.

A Story is a small task that delivers a specific feature. Stories are parts of an Epic.

A Story Point represents the effort required to complete a Story.

- 1- Very Easy task
- 2- Easy task
- 3- Moderate task
- 5- Difficult task

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

### **Sprint 1: Setup & Core Architecture**

- Define user stories and prioritize product backlog
- Set up Node.js & Express backend
- Configure MongoDB database connection
- Initialize React frontend structure
- Implement basic routing and folder structure
  
- Create user schema and authentication system (JWT)

Sprint 1 Story Points = 13

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

- Implement user registration and login
- Implement role-based access control (Admin, Teacher, Student)
- Develop course creation module (Teacher dashboard)
- Integrate video upload using Multer
  
- Implement course listing and browsing
  
- Build admin dashboard for course management

Sprint 2 Story Points = 21

### **Sprint 3: Enrollment & Learning Flow**

- Implement payment simulation module
- Restrict enrollment without payment verification

- Develop enrolled courses page
- Implement progress tracking (complete-section logic)
- Generate downloadable certificate using PDFKit
- Improve UI responsiveness

**Sprint 3 Story Points = 21**

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

- Protect routes using middleware
- Improve error handling and input validation
- Optimize API performance
- Conduct functional and performance testing
- Fix bugs and refine UI/UX
- Prepare documentation and deployment setup

**Sprint 4 Story Points = 13**

#### **Total Story Points**

Sprint 1 = 13

Sprint 2 = 21

Sprint 3 = 21

Sprint 4 = 13

Velocity = Total Story Points Completed / Number of Sprints

Total Story Points = 13 + 21 + 21 + 13 = 68

No of Sprints = 4

Velocity = 68 / 4 = 17

**our team's velocity is 17 Story Points per Sprint.**