**Project Planning Phase**

**Planning Logic**

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| Date | 11 April 2025 |
| Team ID | SWTID1743172790 |
| Project Name | Social Media Web App |

Sprint Duration → 2 Day (Sprint 1, Sprint 2, Sprint 4), 1 Day (Sprint 3)

Story Point Effort Level:

1 → Very Easy

2 → Easy

3 → Moderate

5 → Difficult

**Sprint 1**: (5 Days)  
**Features & Tasks**:

1. **Authentication Setup**
   * User Registration & Login Flow: 3
   * JWT Token Authentication: 2
2. **Frontend Setup**
   * Initial UI Design: 3
   * Basic Frontend Structure: 2

**Sprint 2**: (5 Days)  
**Features & Tasks**:

1. **Real-Time Messaging**
   * Integrating socket.io for Messaging: 5
   * Chat Interface Design: 3
2. **Post & Story Uploading**
   * Post Upload Functionality: 4
   * Story Upload Functionality: 4

**Sprint 3**: (5 Days)  
**Features & Tasks**:

1. **Post Interactions**
   * Like/Comment Functionality: 3
   * Share Functionality: 2
2. **Explore Page Development**
   * Discover Trending Posts: 4
   * Follow Functionality: 3

**Sprint 4**: (5 Days)  
**Features & Tasks**:

1. **Data Privacy & Security**
   * Implement HTTPS & Data Encryption: 5
   * Secure User Data Storage (MongoDB): 4
2. **Real-Time Notifications**
   * Real-Time Updates for Likes/Comments: 4
   * Push Notifications Setup: 3

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| **Sprint** | **Sprint Duration** | **Velocity** | **Average Velocity = Sprint duration/ velocity** |
| Sprint 1 | 5 days | 10 | 2 story points/ day |
| Sprint 2 | 5 days | 16 | 3.2 story points/ day |
| Sprint 3 | 5 days | 12 | 2.4 story points / day |
| Sprint 4 | 5 days | 12 | 2.4 story points/day |

Total Story Points Sprint 1 = 10

Total Story Points Sprint 2 = 16

Total Story Points Sprint 3 = 12

Total Story Points Sprint 4 = 12

Final Calculation:

Total Story Points = 10 + 16 + 12 + 12 = 50

Number of Sprints = 4

Average Velocity per Sprint = 50/4= 12.5 Story per Sprints

Average Velocity per Day=50/20 = 2.5 Story Points per Day

Our team’s velocity is 12.5 Story Points per Sprint.