Feature Breakdown and Time Estimates

Feature A: Calculate Sprint Team's Velocity

Subtask 1: Implement data structures to receive data (10 minutes)

Subtask 2: Define method to calculate sum of points completed (5 minutes)

Subtask 3: Implement logic to calculate the number of sprints (5 minutes)

Subtask 4: Implement logic to calculate average velocity (10 minutes)

Subtask 5: Display the output average velocity in correct format (5minutes)

Feature B: Calculate Team Effort-Hour Capacity

Subtask 1: Define the method and format of input and what inputs are necessary (15 minutes)

Subtask 2: Implement data structures to receive inputs (10 minutes)

Subtask 3: Implement suitable data structure to better define and modularize the inputs, especially in case of data for individual team members. (15 minutes).

Subtask 4: Implement logic to calculate available working days per team member (15 minutes)

Subtask 5: Implement logic to calculate total available hours per team member (20 minutes)

Subtask 6: Implement logic to calculate team effort-hour capacity (10 minutes)

Subtask 7: Display the output individual and team capacity (10 minutes)

Parallel Subtasks

Feature A: All subtasks are dependent on each other and need to be completed sequentially.

Feature B:

Subtask 1 (Define function) can be done in parallel with Subtask 5 (Define output functions) for both features.

Subtask 2 (Working days) and Subtask 3 (Total hours) can be worked on in parallel as they deal with independent calculations.

Reasoning: Defining functions and output formats can be done independently without impacting other subtasks. Similarly, calculating individual member workdays and total hours are independent calculations that can be done in parallel.