**Progress Monitoring Report   
Smart Fitness Tracker App**

**Software Development Project I (COMP231)**

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**1. Introduction**

This report outlines the progress monitoring for **Iteration 1** of the **Smart Fitness Tracker App**, including velocity tracking, iteration changes, and GitHub collaboration. It provides insights into **team productivity, scope changes, and overall development progress**.

**2. Iteration 1 Progress Tracking**

| Iteration | Story Points at Start | Completed During Iteration | Changed Estimates | New Stories | Story Points at End |
| --- | --- | --- | --- | --- | --- |
| Iteration 1 | 100 | 40 | -5 | 10 | 65 |

Explanation:

* Changed Estimates: Some stories were overestimated or removed, leading to reductions (-5 points).
* New Stories: Additional features were added based on stakeholder feedback (+10 points).
* Velocity Analysis: 40 story points were completed, but due to new stories, backlog remains at 65 points.

**3. Task Breakdown for Iteration 1**

**User Story: As a user, I want to register and sign in using my email and password**

| Task | Developer | Estimated Hours | Actual Hours |
| --- | --- | --- | --- |
| Design registration UI | Developer A | 3 | TBD |
| Implement client-side validation | Developer B | 2 | TBD |
| Hash passwords | Developer C | 5 | TBD |
| Send email verification | Developer A | 2 | TBD |
| Store user data in database | Developer B | 3 | TBD |

**User Story: As a user, I want to create a profile to store my personal details**

| Task | Developer | Estimated Hours | Actual Hours |
| --- | --- | --- | --- |
| Create UI for Profile | Developer A | 7 | TBD |
| Implement Database | Developer B | 10 | TBD |

**User Story: As a user, I want to track my fitness progress**

| Task | Developer | Estimated Hours | Actual Hours |
| --- | --- | --- | --- |
| Create UI | Developer A | 7 | TBD |
| Implement charts & diagrams | Developer C | 5 | TBD |
| Implement user activity logs | Developer C | 4 | TBD |
| Implement Database | Developer B | 4 | TBD |

**4. Discussion of Iteration 1 Changes**

Completed Work:

* 40 story points were successfully completed, covering core functionalities such as user authentication, profile creation, and progress tracking.

Scope Adjustments:

* Some tasks required less effort than expected, reducing story points by 5.

Newly Introduced Stories:

* Based on early feedback, additional workout tracking features were introduced (+10 points).

Result:

* 65 story points remain in the backlog for future iterations.
* The team needs to refine estimation techniques to improve velocity tracking.

**5. Iteration 1 Burndown Chart  
A graph with a blue line

AI-generated content may be incorrect.**

**Analysis:**

* A steady decline in story points is visible, but additional stories increased the backlog.
* Future iterations should focus on completing more points than new ones introduced.

**6. Code Repository & GitHub Collaboration**

**GitHub Repository:**

* Repository: <https://github.com/JijoGeorge9496/Progress-Monitoring-Report.git>
* Instructor Invited: ✅ haocencol

**7. Conclusion**

This report documents **Iteration 1 progress monitoring**, covering **completed tasks, scope changes, and collaboration efforts**. The **burndown chart** highlights iteration velocity, and the **GitHub repository** demonstrates **active project management**.