Physics Sandbox

Agile Tracking Sheet

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Table 1: User Story Summary

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **User**  **Story ID** | **User**  **Story** | **Completeness**  **Criteria** | **Effort**  **Estimate**  **(hours)** | **Priority**  **(Low number means high priority)** | **Worked in**  **Sprint**  **(Estimated)** |
| 0 | As a user, I want to see the simulation in real time | Simulation operates in real time | 4 | 0 | 1 |
| 1 | As a user, I want to pause and play the simulation with a button | Operating play/pause button that affects all sandbox interactions | 2 | 1 | 1 |
| 2 | As a user, I want to add particles in real time | Real-time changes based on input | 4 | 2 | 1 |
| 3 | As a user, I want control the size of the window | Window can change size while maintaining normal sandbox functionality | 3 | 3 | 2 |
| 4 | As a user, I want to see particles apply forces on each other | Fully interacting particles | 6 | 4 | 2 |
| 5 | As a user, I want to drag and drop particles | Drag and drop particles | 4 | 5 | 2 |
| 6 | As a user, I want to customize gravity in the gui | Able to change gravity direction and strength in gui | 2 | 6 | 3 |
| 7 | As a user, I want to set particle attributes | Editable particle strength, radius, mass | 4 | 7 | 3 |
| 8 | As a user, I want to save the starting state of the sandbox | Saving/loading of sandbox start state | 8 | 8 | 3 |
| 9 | As a user, I want to save the current state of the sandbox | Saving/loading of sandbox in any state | 4 | 9 | 4 |
| 10 | As a user, I want to create particle templates | Particle templates with attributes customized through gui | 4 | 10 | 4 |
| 11 | As a user, I want to save particle templates | Saving/loading of particle templates | 4 | 11 | 4 |

Table 2: Sprint Work Summary

|  |  |  |  |
| --- | --- | --- | --- |
| **Sprint** | **Backlog** | **In Work**  **This Sprint** | **Completed**  **This Sprint** |
| 1 |  | 0, 1, 2 | 0, 1, 2, 3 |
| 2 |  | 4, 5 | 4, 5 |
| 3 |  | 6, 7, 8 | 6, 7, 8, 9 |
| 4 |  | 10, 11 | 10, 11 |

Table 3: Remaining Effort Estimate (Burn Down Chart)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Start** | **5 Feb** | **22 Feb** | **19 Mar** | **29 Mar** | **9 Apr** | **21 Apr** | **3 May** |
| Planned | 49 | 43 | 36 | 26 | 20 | 12 | 8 | 0 |
| Actual | 49 | 49 | 49 | 49 | 36 | 26 | 8 | 0 |