**Use Case Document**

**engine**

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# Introduction

This Use Case has been created to outline the standard workflow of ideal usage of the Engine program. Ideally, a user signs onto their computer, opens their console (or web browser, if the program gets implemented via the web), and runs the program. Upon starting the program, the user will receive a message in the console that prompts them to enter an athlete name (String). They enter a string, and it gets saved. The program then prompts them to enter the athlete height (Integer). They enter it, it gets saved. The program then prompts them to enter the athlete weight (Double). The program saves the data and uses it to configure the attributes of the new Athlete object; essentially allowing the user to specify its details with their input.

# Use Case

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| **Name of Use Case:** | Provide athlete data. | | | |
| **Created By:** | Jeremy Alkire | | **Last Updated By:** | Jeremy Alkire |
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|  | |  | | |
| **Description:** | |  | | |
| **Actors:** | | Only the user. | | |
| **Preconditions:** | | 1. The user must have a computer. 2. The user must have access to the console. 3. The user must be able to enter data into the console. | | |
| **Postconditions:** | | 1. The user has entered valid string data. 2. No terminal errors or uncaught exceptions occurred entered data. 3. Data was processed and inserted correctly, as intended. 4. Updated string data is sent back to the user. | | |
| **Flow:** | | 1. User accesses the console and runs the program. 2. Program prompts the data to enter two strings, one at a time. 3. User enters strings into the console. 4. Console program inserts user entered strings into larger default strings. 5. Program displays updated data to the console for the user to see. | | |
| **Alternative Flows:** | | If the user enters invalid data, the below sequence is initiated.   1. Program recognizes invalid data, catches the exception, and handles it accordingly. 2. Error message is displayed to the console, requesting that the user enter valid data that adheres to input requirements and standards. 3. If user enters valid data, flow continues as intended, otherwise alternative flow loop continues indefinitely until valid data has been provided. | | |
| **Exceptions:** | | 1. None. | | |
| **Requirements:** | | The following requirements must be met before execution of the use case   1. Program must be written. 2. Program must preemptively have exceptions or conditional methods of handling all kinds of input, particularly those that might be deemed invalid or break the program. 3. User must have a computer. 4. User must have access the console. | | |