Use Case U1S1: Time Events
Scope: Timer
Level: User Goal
Primary Actor: User
Scenario: Start Timing
Related Use Cases: N/A
Stakeholders and Interests:

- User: Wants accurate timing

Preconditions: The Timer is running, not timing (the is stopped or paused).
Success Guaranties: (Postconditions) The Timer is started, and accurately timing the event.

Main Success Scenario:

User	**System**
1. Indicates to start timing.	
	2. Records the Start time.
	3. Calculates the elapsed time.
	4. Displays the elapsed time in seconds resolution.

Alternative Flows:
*a. If at any time, the System cannot measure the time for the elapsed time, then the System informs the User the Timer has stopped working properly.

Technology and Variations List:
2b-4b. The Actuall accuracy of the timer is dependant and will vary based on the task schdulers of both the Operating System and the language used for implementation.

Frequency of Occurrence: Multiple timers as needed.

Open Issues:

- Is the accuracy dependant on the Operating System?
- Is the accuracy dependant on the Hardware?
- Multitasking issues?
- Multithreading issus?
- How does language affect the accuracy of the Timer?
- How does a “fully loaded System” affect the accuracy of the Timer?