**Unit Test Timer Countdown**

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**Objective:**

Verify timer counts down correctly.

**Setup:**

1. Go to admin page <https://wwu39.pythonanywhere.com/admin> (require admin password), under **Installed applications** list, click manage **prostudy**, and then click Edit. Click on database administration and select db.task. Initially it’s empty.
2. Feed self.vue.time\_actual in static/js/default\_index.js with different values. Equivalence classes will be [time < 60 mins], [60 mins <= time < 100 mins] and [100 mins <= time < 999 mins]. Special candidates are boundary values and their immediate neighbors 0, 1, 59, 60, 61, … invalid input are not possible by DoCs.
3. Normally timer can’t start without user selecting a task, remove this limit when testing.
4. Go to the product <https://wwu39.pythonanywhere.com/prostudy> (SUT) and turn web inspector on.

**Exercise & Verify:**

1. Start the timer with already set time values. Look carefully at moments like 01:00:00 to 00:59:59. Verify “stop” button indeed stops the timer. Verify it works for different classes of values correctly.
2. When time’s up, verify that alarm is correctly played.
3. Web inspector never reports an error.

**Tear-down:**

1. Set self.vue.time\_actual back to default value (25 mins).
2. Restore the limit removed. Verify the limit works correctly.