**Test Plan**

Tester: Noel Jules Cabahug Date designed: Nov 29, 2024, 7:40 PM

Commit ID: 016cbdcd561fe8fe7a4d3d739bc61de26d8c8842 Date conducted: Nov 29, 2024, 10:00 PM

Test Type & Test Type ID: White Box - 04

**Requirement Addressed**

Verification of initialization, and functionality for the Pomodoro timer.

**Objective**

Ensure the Pomodoro timer is initialized correctly, and functions as intended.

**Test cases**

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| --- | --- | --- | --- | --- | --- |
| **Description** | **Input field** | **Input value** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| Verify initialization of the Pomodoro timer with default settings. | \_\_init\_\_() | self | Timer is initialized with work\_minutes set to 25, break\_minutes set to 5, timer\_seconds and timer\_period set to 'work'. | The pomodoro timer is initialized with the following time:   * work\_minutes set to 25 * break\_minutes set to 5 * timer\_seconds and timer\_period set to 'work' | Pass |
| Ensure the timer starts counting down when start\_timer() is called. | start\_timer() | self | Timer begins counting down every second, updating the timer label with the remaining time. | The timer begins counting down every second, updating the timer label with the remaining time. | Pass |
| Verify the timer stops when stop\_timer() is called. | def stop\_timer() | self | Timer countdown stops, and the tick\_event is canceled. | The timer countdown stops, and the tick\_event is canceled. | Pass |
| Test the transition between work and break periods. | shift\_period() | Timer reaches 0 seconds | Timer switches from 'work' to 'break' or vice versa, resetting timer\_seconds to the appropriate value (25 or 5 minutes) and updating the timer label. | When the timer reaches 0 seconds, it switches from 'work' to 'break' or vice versa, resetting timer\_seconds to the appropriate value (25 or 5 minutes) and updating the timer label accordingly. | Pass |
| Verify the timer resets to default settings upon logout. | default\_timer\_settings() | self | Timer stops, work\_minutes and break\_minutes are reset to 25 and 5, respectively. | The timer stops, and the work\_minutes and break\_minutes are reset to 25 and 5, respectively. | Pass |