**Test Plan**

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Test Type & Test Type ID: White Box - 02

**Requirement Addressed**

Assess the new methods for managing timer-related functionalities and database interactions in the Pomodoro Timer application.

**Objective**

To ensure that the Pomodoro Timer's functionalities, including session data updates and timer settings synchronization, operate correctly and interact seamlessly with the database.

**Test cases**

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| **Description** | **Input field** | **Input value** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| Test the update\_user\_session\_data() method for correct data insertion and update in MongoDB Cloud. | update\_user\_session\_data() | self | * If no session exists for today, a new session is logged with initial work and break times set to zero. * If a session exists, the work or break time is incremented based on the current timer period. | * A new session is logged with the initial work and break times set to zero when no session exists for today. * The work or break time is incremented based on the current timer period when a session exists. | Pass |
| Verify that the sync\_timer\_changes() method updates the timer display across different screens. | sync\_timer\_changes() | self | Timer labels on the dashboard and setup screens are updated to reflect the current work minutes. | Timer labels on the dashboard and setup screens are updated to reflect the current work minutes. | Pass |
| Ensure that the set\_timer\_settings() method correctly updates the timer settings and triggers synchronization. | set\_timer\_settings(work\_time, break\_time) | Different combinations of work and break times. | Timer is stopped, and the new settings are reflected in the timer label. | Whenever the user opens the timer settings and changes it, the timer is stopped and the new settings are reflected in the timer label. | Pass |
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