

Weekly Homework 4

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We engaged with the tasks.

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1. Timer Functionality (functional):

- Must include a customizable timer for work sessions (default 25 min).
- Must include a customizable timer for short breaks (default 5 min).

2. Long Breaks (functional):

- Should allow users to set longer breaks (e.g., 15-30 minutes) after a specified number of work sessions. (4 by default)

3. Task Management (functional):

- Enable users to create tasks associated with each Pomodoro session.
- Allow users to edit and delete tasks for better organization.

4. Session Tracking (functional):

- Track the number of completed Pomodoro sessions.
- Track the number of breaks taken.

5. Statistics Dashboard (functional):

- Offer a visual dashboard displaying total Pomodoros completed.
- Display average session length and productivity trends over time.

6. Notifications and Reminders (functional):

- Provide customizable notifications when a Pomodoro session is about to end.

7. User Interface Customization (functional):
 - Allow users to customize the interface, including themes and colors.
 - Enable layout adjustments to enhance user experience.
8. Cross-Device Synchronization (functional):
 - Support synchronization across multiple devices (e.g., mobile, tablet, desktop).
 - Ensure data consistency across devices for seamless access.
9. Integration with Other Tools (functional):
 - Integrate with popular task management tools to streamline workflow.
 - Provide integration with calendar applications for scheduling.
10. Performance (non functional):
 - The application should respond to user interactions within 1 second.
 - The timer should be accurate to within 1 second.
11. Reliability (non functional):
 - The application should have an uptime of 99.9
 - Data should be backed up regularly to prevent loss.
12. Security (non functional):
 - User data should be encrypted both in transit and at rest.
 - Implement user authentication to protect personal data.
13. Compatibility (non functional):
 - The software should be compatible with major operating systems (Windows, macOS, Linux).
 - It should support multiple browsers for web-based versions.
14. Scalability (non functional):
 - The application should handle an increasing number of users without performance degradation.
 - It should support future feature expansions without major redesign.

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