Team Name: ASSK-CAB302

**Team Members:**

1. Ahmad Sear Naderi
2. Allem Karaahmetovic
3. Pham Tran
4. Kirubel Kebede

*Project Requirements: you have defined a project brief and have created an initial list of requirements*

1. **Introduction:**

EyeGuard is an indispensable application meticulously crafted to alleviate eye strain among users by proactively reminding them to take regular breaks during extensive computer usage. By seamlessly integrating timer functionality and a robust reminder system, EyeGuard endeavors to foster healthier habits among individuals dedicated to prolonged computer work.

1. **Functional Requirements:**

**Timer Functionality:**

* Implement a dependable timer feature, empowering users to set personalized intervals for break times.
* Enable users to finely tune break durations according to individual preferences.
* Ensure precise tracking of elapsed time to prompt breaks at opportune moments.

**Reminder Functionality:**

* Develop a sophisticated notification system to prompt users when it's time to take a break.
* Utilize diverse notification methods including discreet pop-up messages, subtle sound alerts, or gentle vibration cues.
* Afford users the flexibility to tailor reminder settings, encompassing frequency and preferred notification modalities.
* Allow users to postpone / snooze the reminder

**Customization Settings:**

* Develop a setting function that allow user to change the notification preference
* Develop a setting function that allow user to change the break interval

1. **Non-Functional Requirements**

**Performance:**

* Ensure fluid application performance with minimal resource consumption and negligible impact on system functionality.
* Optimize timer operations to uphold energy efficiency and minimize CPU utilization.

**Usability:**

* Craft an intuitive user interface characterized by intuitive controls facilitating effortless configuration of the timer and management of reminders.
* Strive for inclusivity, ensuring the application remains approachable and user-friendly for individuals of varied technical acumen.

**Reliability**

* Enact robust error-handling protocols to swiftly address potential anomalies during timer operation or reminder notifications.
* Subject the application to comprehensive testing across diverse usage scenarios to validate steadfast reliability.

**Analytics**

* Perform comprehensive analytics of device usage to elucidate users of habits and tendencies in a concise manner.
* Display information in a clear manner with a user friendly interface.

1. **Testing**

* Execute exhaustive testing procedures to ascertain the integrity and efficiency of both the timer and reminder features.
* Validate application performance across an array of operating systems and devices, ensuring uniform compatibility and unwavering reliability.

1. **Deployment**

* Navigate the deployment landscape with precision, targeting pertinent platforms such as desktop computers and mobile devices, aligning with user needs and preferences.
* Adhere meticulously to platform-specific guidelines and standards throughout the deployment lifecycle.

1. **Maintenance and Support**

* Establish a framework for ongoing maintenance and support operations, committed to promptly addressing user feedback, bug reports, and feature enhancements.
* Foster a culture of continuous improvement through regular updates and patches, augmenting functionality and rectifying any post-deployment discrepancies.

*User Stories*

| Team Member | User Story | Acceptance Criteria | MoSCoW |  |
| --- | --- | --- | --- | --- |
| Allem Karaahmetovic |  |  |  |  |
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| Kirubel | As a developer,  I want to implement functionality that allows the application to postpone or snooze reminders  so that users can temporarily delay taking breaks when they're in the middle of a task. | Given a reminder notification is displayed,  When the user selects the "Postpone" option,  Then the reminder is snoozed for a predefined interval before reappearing. |  |  |
| As a developer,  I want to implement a setting function that allows users to change their notification preferences  so that they receive reminders in their preferred manner. | Given access to the application settings,  When the user navigates to the notification preferences section,  Then they can choose between pop-up messages, sound alerts, or vibration cues for reminders. |  |  |
| As a developer,  I want to implement a setting function that allows users to adjust the break interval settings  so that they can tailor break durations according to their work habits and preferences. | Given access to the application settings,  When the user navigates to the break interval settings,  Then they can specify the duration of break intervals according to their preference. |  |  |
| As a user,  I expect the application to ensure fluid performance with minimal resource consumption, providing a seamless experience  so that I can use the application without interruptions or delays. | Given the application is running,  When I interact with the interface and timer operations,  Then the application responds promptly without any lag or delay. |  |  |
|  | As a user,  I expect the application to optimize timer operations to uphold energy efficiency and minimize CPU utilization  so that my device's battery life is preserved, and system resources are efficiently utilized. | Given the timer operations are active,  When the application is running in the background,  Then the CPU utilization remains low, preserving system resources. |  |  |

Time

Functionality

Remindes

Analytics.