

Team 24 Project Charter

Team Members

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Problem Statement

In a world where people are consistently striving to improve their overall sleep experience, most sleep tracking apps fail to actively help their users find a path to a better sleep schedule. Existing iOS sleep tracking apps, such as Apple's Sleep, AutoSleep, and Shuteye, do track the user's sleep patterns and offer general advice, but fall short of providing a personalized plan for sleep improvements with a community forum feature for sharing experiences. Our app will have more features than an average sleep tracker, including a dream journal and improvement challenges to help users fix their sleep schedule to get more rest. There will be elements involved that let users interact with each other and share their own experiences and encourage each other.

Project Objectives

- **Enhance Sleep Quality:** Our sleep tracker app will help users understand their sleep schedule by analyzing sleep patterns and providing personalized recommendations.
- **Educational Resource on Sleep Health:** Offer comprehensive educational content and support to inform users about sleep health and provide strategies for managing sleep-related issues.
- **User-Friendly Design and Connectivity:** Foster a user community where users can connect together to obtain advice regarding sleep health.

Stakeholders

- Users: People looking to track their sleeping habits and use the available resources on the app to improve their overall sleep experience.
- Project Coordinator: Aline Carranza
- Scrum Masters:
 - Sprint 1: Caitlin Wilson
 - Sprint 2: Ava Schrandt

- Sprint 3: Isha Samavedhi
- Developers and Project Owners:
 - Cristina Corley, Computer Science, corley6@purdue.edu
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 - Kara Orander, Computer Science, korande@purdue.edu
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Deliverables

- A user-friendly iOS app, built with Swift and Objective-C, that will track sleep patterns, provide personalized recommendations for improving sleep quality, house a user community, and provide sleep-related resources. For an IDE, we intend to use Appcode or Xcode.
- Develop a Firebase-based backend to handle data processing, user profile personalization, user authentication, and real-time updates.
- Track and gather data from users via iOS watch, which will be used for analysis as well as evaluation of results using the Apple Healthkit API.
- Provide professional consultation referrals for users to connect with nearby sleep specialists or healthcare providers using Google Maps API.
- Manage the storage and retrieval of posts related to the community forum with Firebase Realtime Database.
- For testing we can use either Appium, XCTest, or Wallaby/Quokka Testing depending on the platform.