DECO3500

Improving sleep quality for university students

Team ATONIA

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Team introduction and strengths



Team name: Atonia

The team is composed of students who are passionate about the design process and interaction design field.

Team Roles:

- User researcher: Yanni
- User Interface Designer: Carrie
- Front-end Developer: Shaun
- Meeting note-taker: Eva
- Motivator: Olivia

Team common interests:

- Prototyping
- User researching
- Coding

Team strengths:

- Design thinking skills
- Critical thinking
- Problem-solving
- Task/time management
- Creativity and innovation
- 3D Design
- Graphic design

Domain/Problem Space



Domain: Improving sleep quality for university students

Aim: Changing Users' sleep-related behaviours

Domain Description:

We would like to explore how to use technology to provide personal (user-centred design) support in **cultivating healthy and satisfactory sleep habits** for **university students** who experience sleep problems due to **academic stress**, **irregular schedules**, **and excessive technology** use before bedtime. According to the research[1], almost three-quarters of students agree that well sleep is more important than academic success and that good sleep quality the previous night shows more productivity and concentration the next day.

Hence, we aim to cultivate healthy sleeping habits through a customised sleep support system on the digital device to enhance the user experience.

Design Opportunities



01

SOCIAL CONCEPT: AWARENESS

Send notifications for ideal sleep times to cultivate users' good sleeping habits/and remind them of the benefits of that.

02

SOCIAL CONCEPT: ACTIVITY TRACES

Sync user calendar and significant events to explore the impact factors of sleeping.

03

MOBILE CONCEPT: PRIVATE

Give users the option of how their data is displayed, enabling personalization.

04

MOBILE CONCEPT: CONTEXT-AWARE

Analyses the user's sleep data, then produces a long-term sleep report to measure sleep quality and any improvements

Target Audience





Audience:

User's feelings:

hopelessness,

anxiety,

Anger, self-blame,

Ioneliness, homesick

University students who have sleep issues



sleeping routine.

do activities that may enhance their sleep quality.

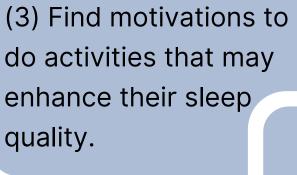


User's problems:

Academic stress, worrying about future/assignment



(1) Fall asleep in time; (2) Have and keep a fixed



Previous Attempts:

• Wearable devices that help users achieve better sleep quality by promoting their physical activities. Those devices support users to do data-sharing with other users and build networking with their fellows with common interests.

Strength:

- Improving users' sleep patterns
- Fostering a sense of healthy competition by allowing users to compare their scores with other users.
- Creating a valuable networking opportunity for those who share common interests.

Improvements:

- Uncomfortable user experience
- Inconvenient charging system.
- The low motivation of usage when users use it alone



Plan of Work



Task	Details	Tools/Methods
User interviews (From Week 5)	Interviewee: UQ Students (n=12) - Exploring their attitudes toward sleep, experiences with sleep disruptions, preferred previous attempts with technology utilization and receptiveness to technology-driven interventions.	Recording/Transcripts
Contextual Inquiry (From Week 6)	Participants: UQ Students (n=15) - Participants will journalize their bedtime routines, their feelings of waking up, sleep habits, and daily physical condition and moods	Digital Notes
Prototyping/Coding (Before the contact session of Week 9)	 Using the user-centred design approach Researching, discussing and iterating the design of the prototype (we will have meeting twice a week (additional working time – 4 hours)) 	Figma/Github
User Evaluation (Before and after the contact session of Week 11) Final Submission	 Organize at least 3 testing sessions with target users Iterating the prototype according to their feedback Show the prototype in Week 13 Tradeshow 	Thinking Aloud Method Heuristic evaluation Method With supporting promotional material



Thank you!

If you have any questions, please feel free to ask us!