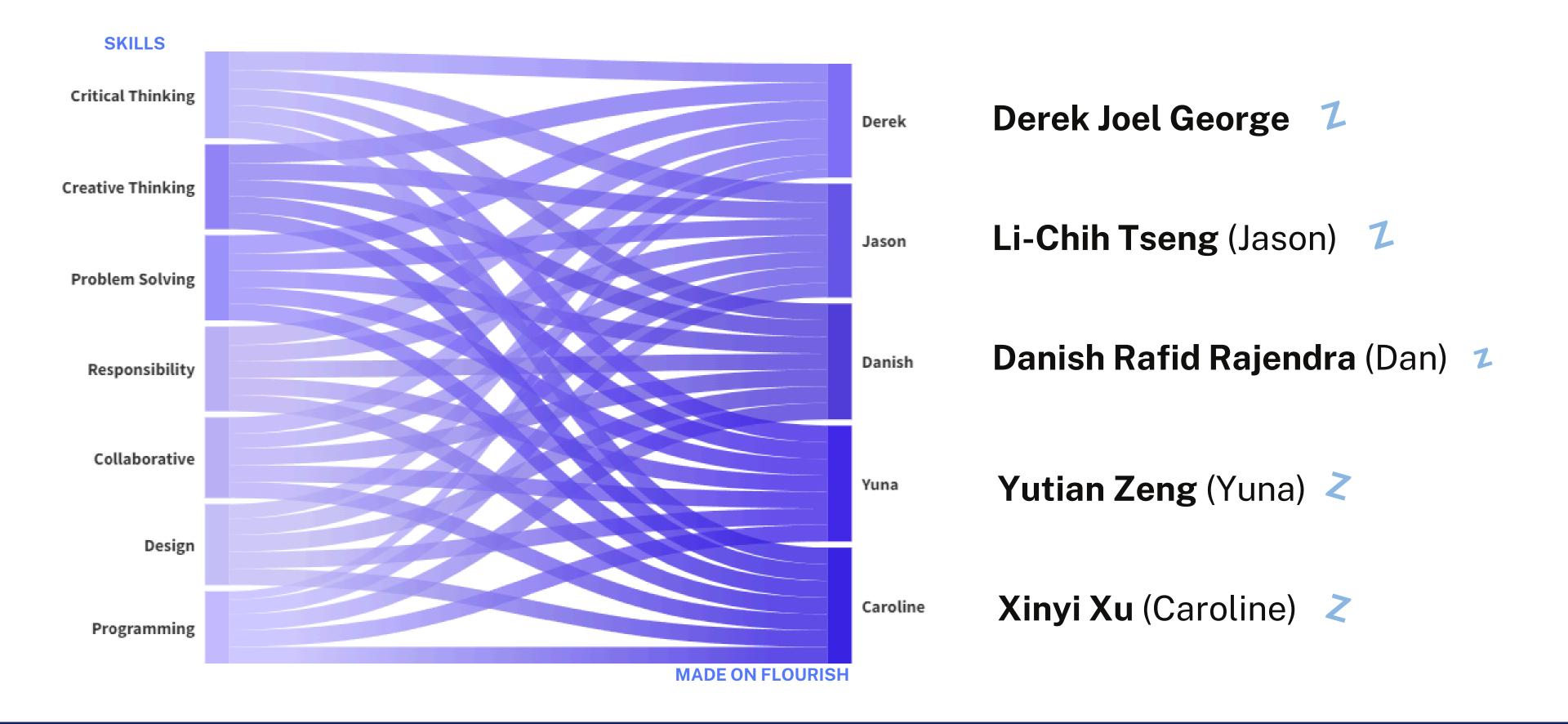
# 722

## DESIGN PROPOSAL

SOCIAL AND MOBILE COMPUTING

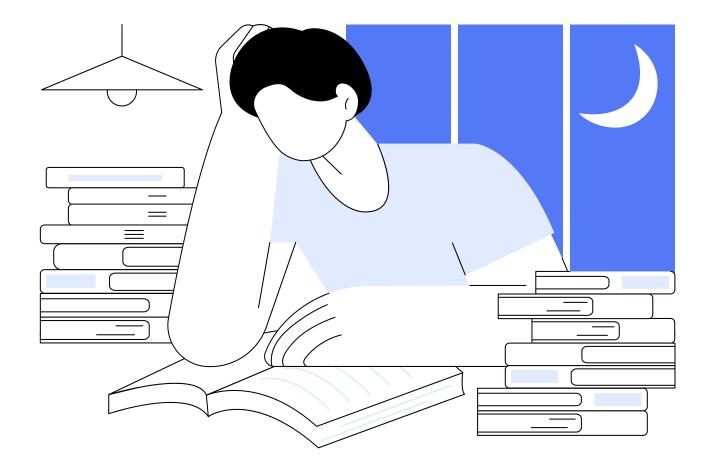


"You miss 100% of the naps you don't take." — Unknown

Poor Sleep Hygiene can lead to reduced academic performance, mental health problems, and decreased overall well-being.

Many university students struggle with poor sleep hygiene due to varying class times, social activities, and late night study sessions (Lu et al., 2023).

Our **Domain** is *Improving Sleep Hygiene in University* **Students (UQ)**.



Lu, S., Stone, J. E., Klerman, E. B., McHill, A. W., Barger, L. K., Robbins, R., Fischer, D., Sano, A., Czeisler, C. A., Rajaratnam, S. M. W., & Phillips, A. J. K. (2023). The organization of sleep-wake patterns around daily schedules in college students. SLEEP. https://doi.org/10.1093/sleep/zsad278

could also affect users.

#### IMPLICATIONS

#### Personalisation and Adaptation

Students have varied sleep needs and schedules.

S

#### OPPORTUNITIES

Personalised Sleep Planning Tools

#### **Community and Peer Support**

Social support can play a significant role in behavioural changes.

#### Integration of Multiple Interventions

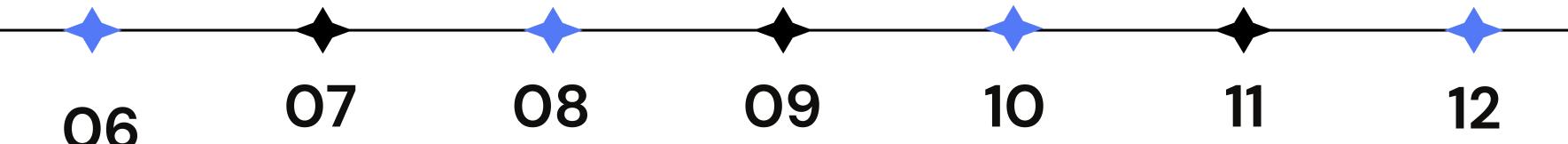
Different sleep aids have the potential to improve sleep quality.

Community-Based Support Systems

**Adaptive Sleep Aids** 

We will use interviews, diary studies, auto-ethnography to collect qualitative data to gain an understanding of what affects sleep in the students here at UQ. Post analysis, the data will be put into themes.

Making use of the feedback received, we will develop iterations that will undergo multiple cycles of user testing. Our final iteration will be presented at the trade show.



Using these themes, we will ideate (Brainstorming, 6 Thinking Hats etc.) to choose a solution. We will conduct rapid prototyping with a low-fi prototype for initial user feedback.

### Interview Questions.

Hi, Can you state your name and the program that you're pursuing here at UQ.

What do you think is a good nights sleep? (Follow Up) Do You think you have been getting good sleep while at Uni? 1. What factors do you think most significantly impact your sleep quality as a university student? (Follow Up). How do academic pressures, such as assignments and exams, influence your sleep patterns? (Follow Up)What role does technology (e.g., phone use, social media) play in your sleep habits? How often do you struggle to fall asleep? (Follow up) Does technology affect your ability to fall asleep? 2. Can you describe your typical bedtime routine and how it affects your ability to fall asleep?

- 4. Does your living environment, such as noise levels or roommates, affect your ability to get restful sleep? Ask Follow up on How it affects their sleep.
- 8. Can you describe a time when you experienced particularly poor sleep and what you think contributed to it? or Can you share any challenges you face in maintaining a consistent sleep schedule during the academic year? 6. How do you feel your mental health impacts your sleep quality?
- 7. Are there any particular strategies or habits you use to try to improve your sleep quality? If so, how effective do you find them?

#### Reasons

**Body Clock** 

• Late sleep due to assignments.

**Academic Pressure** 

Procrastination

Phone before bed

**Ideal Time** 

6-9 hours of sleep

**Strategies** 

Maintain Sleep Schedule No Technology Pills Videos /ASMR content White Noise **Environment** 

No sound No Light

**Work Stress** 

Cannot sleep past a certain time.

**Bad mood** 

**Bed Time Routine** 

Cold Shower
Eat Food
Wash Face/Brush Teeth
Wash Feet.
Skincare