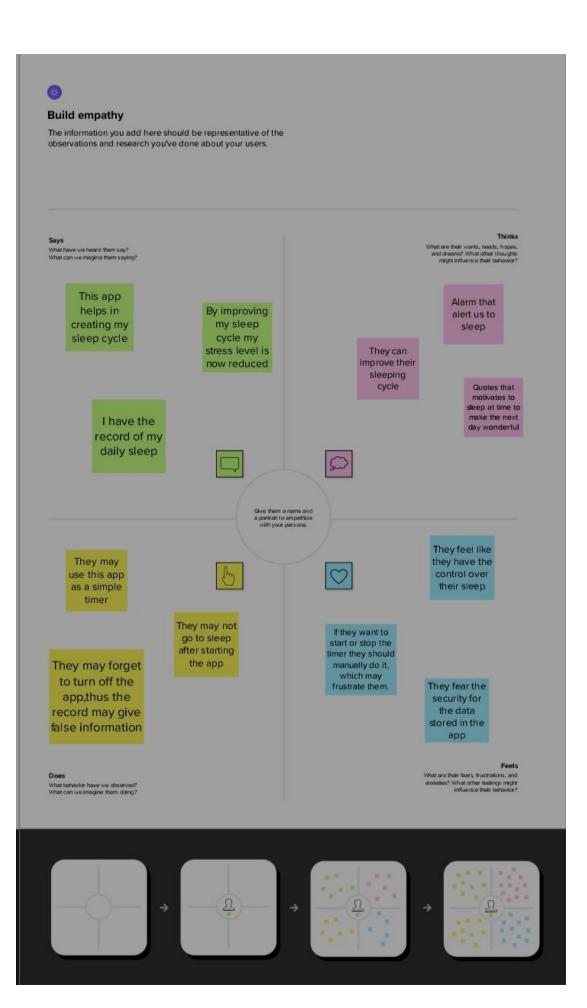
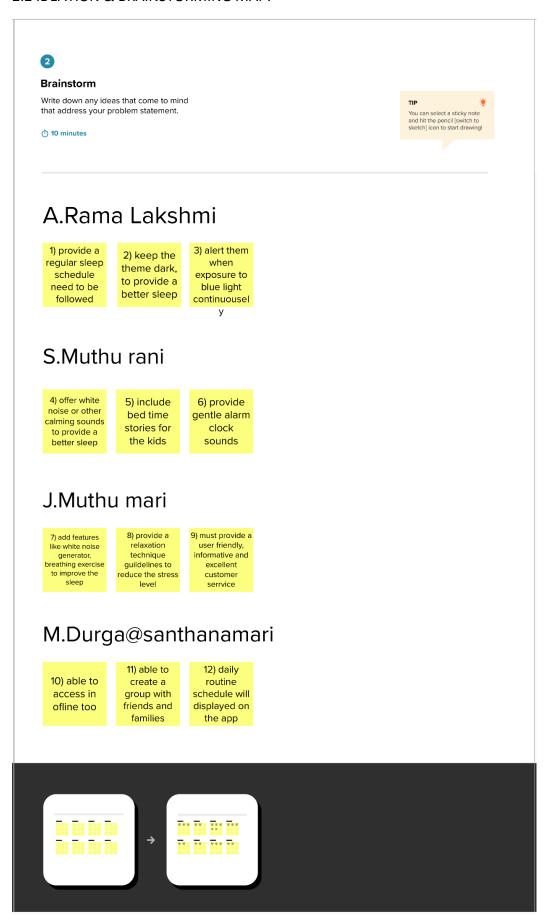
CONTENTS:						
INTRODUCTION:						
OverviewPurpose						
PROBLEM DEFINITION AND DESIGN THINKING:						
Empathy MapIdeation & Brainstorming Map						
RESULT						
ADVANTAGES AND DISADVANTAGES						
APPLICATIONS						
CONCLUSION						
FUTURE SCOPE						
APPENDIX:						
Source Code						
PROJECT REPORT						
1.INTRODUCTION:						
1.1 OVERVIEW:						
We have developed a project about tracking app to monitoring a person's sleep and to provide a better sleep cycle to them. It is an android app which track movements during sleep of a person to improve their sleep cycle.						
1.2 PURPOSE:						
The main purpose of develop an app that is comfortable to we and to have pretty much a very						
less learning curve when it comes to using the app for everyone.						

\sim		DEFINITION	AAID DECLORETHING
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_	. F INOULLIN		AND DESIGN THINKING:

2.1 EMPATHY MAP:



2.2 IDEATION & BRAINSTORMING MAP:





Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

① 20 minutes

Planning and implementing

Add customizable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas as themes within your mural.

Provide a regular sleep schedule need to be followed

Keep the theme dark to provide a better sleep

Include bed time Stories for the kids

Alret them when exposure to the blue light continuously

Offier white noise or other calming sounds to provide a better sleep

Provide gentle alarm clock sound

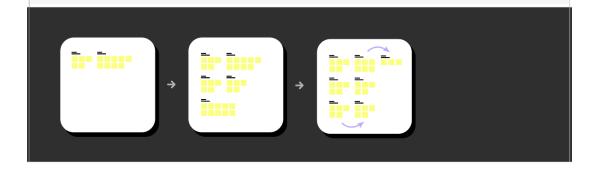
Daily routine schedule will be displayed on the app Add features like white noise generator, breathing exercises to improve the sleep Must provide a user friendly, informative and excellent customer service

Provide a relaxation technique guidelines to reduce the stress level

Access and sharing

Able to access in offline too

Able to create a group with friends and families

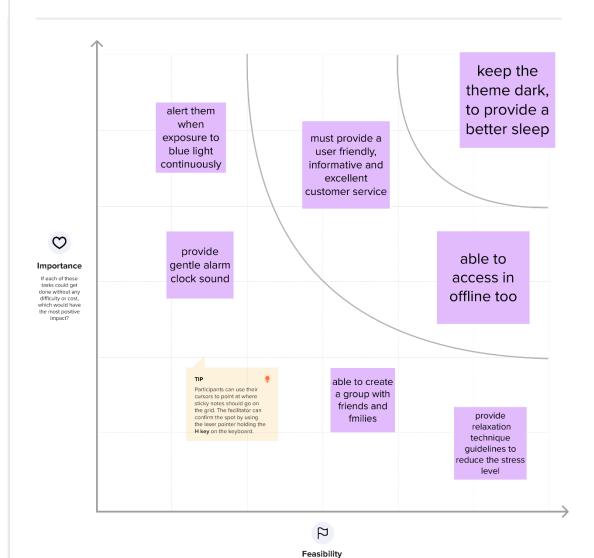




Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

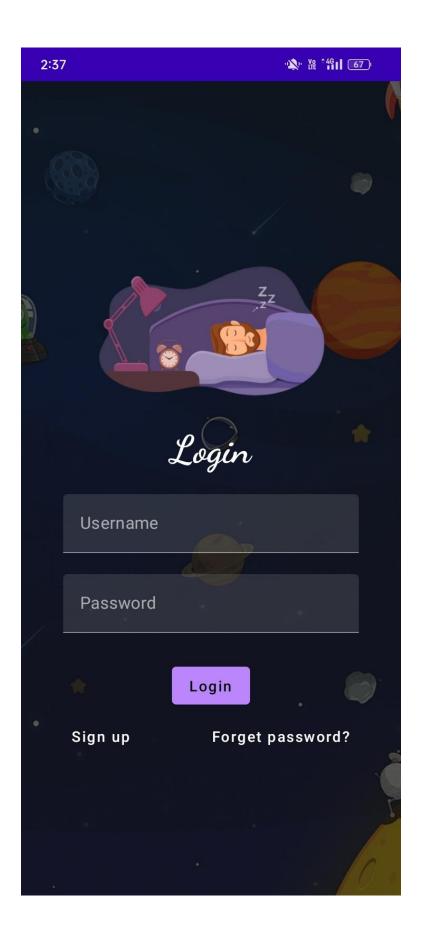
① 20 minutes

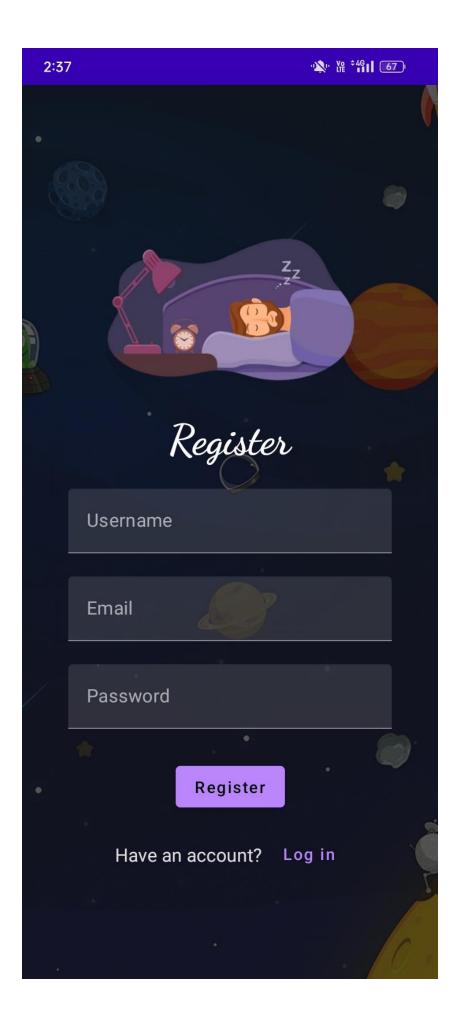


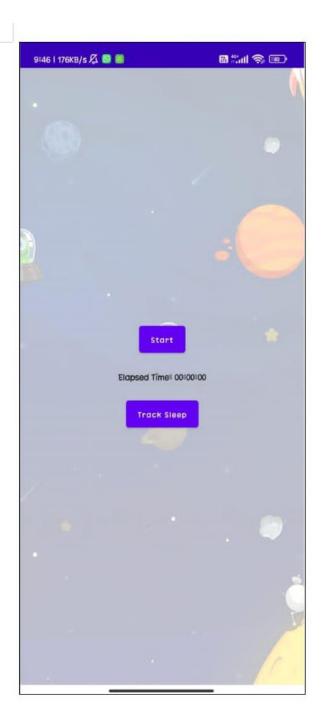


Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc.)

3.RESULT:









4.ADVANTAGES AND DISADVANTAGES:

ADVANTAGES:

- . Gold standard of sleep assessment.
- . Allows determination of sleep architecture.
- . Identification of medical sleep disorders.
- . Useful for assessment of daytime sleepiness.
- . Non-intrusive.
- . Less expensive than polysomnography.
- . Provides data on routine can be utilised for extended periods.
- . Validated against polysomnography.
- . Increase sleep awareness.
- . Promote athlete-staff interaction.
- . Inexpensive accessible can be utilised for extended periods.
- . May promote further evaluation.
- . Cost effective.
- . Provides information on routine.
- . May be more accurate than questionnaires.
- . Time effective.
- . Can provide information on sleep disorders, daytime sleepiness, and sleep hygiene.
- . Can provide behaviour information.

DISADVANTAGES:

- . Expensive.
- . Does not determine schedules.
- . Intrusive unnatural sleep environment.
- . Labour intensive.
- . Expertise required.

- . Does not measure sleep architecture.
- . Does not measure breathing.
- . Device can be removed.
- . Requires some expertise for analysis.
- . More expensive than commercial devices.
- . Lack of validation.
- . Little information on algorithms utilised.
- . Likely to overestimate sleep.
- . May cause increased stress and anxiety.
- . Device not worn by individual.
- . Apps may increase screen time.
- . May cause increased anxiety.
- . Requires compliance.
- . May be influenced by recall bias.
- . May be influenced by subject burden.
- . May be influenced by response bias.
- . Lack of standardised data for athletes.

5.APPLICATIONS:

- . These applications provide a wide range of functions, including smart alarms, sleep aids, sound recording during sleep, and analysis of sleep.
- . Other applications were designed to assist healthcare professionals in monitoring and screening their patients for habitual snoring and obstructive sleep apnea.
- . A few health trackers were compared to standard sleep assessment tests including polysomnography (PSG), wrist actigraphy, and the Pittsburgh sleep quality index (PSQI).
- . Parameters assessed in validation studies included sleep onset latency, total sleep time, snoring events, sleep stages, and sleep efficacy.
 - . Most applications have shown good correlation to wrist actigraphy but not PSG.
 - . Moreover, a drop in reliability was commonly seen in clinical populations compared to healthy

users, a trend also seen with conventional.

6.CONCLUSION:

We conclude that sleep trackers may be useful in improving user's self-management, and increasing sleep hygiene awareness, knowledge, and behaviours. Thus, app may present valuable tools for improving sleep quality. It is recommended to access behaviour changes associated with sleep trackers in different populations, such as elders, and people with sleep disorders and major illnesses.

7.FUTURE SCOPE:

Enhancements then can be made in the future must obey the following steps:

- . Get a clear understanding the sleep apps and sleep tracking apps market, how it operates, and the various stages of the value chain.
- . Understand the current market situation and future growth potential of the sleep apps and sleep tracking apps market throw out the forecast period.
- . Strategized marketing, market-entry, market expansion, and other business plans by understanding factors influencing growth in the market and purchase decisions of buyers.
- . Understand your competitors' business structures, strategies, and prospects, and respond accordingly.
- . Make more informed business decisions with the help of insightful primary and secondary research sources.

8. APPENDIX:

Source Code:

Build.gradle: https://github.com/ramalakshmi17/nm-sleep-tracking/blob/main/build.gradle

App/build.gradle: https://github.com/ramalakshmi17/nm-sleep-

tracking/blob/main/app/build.gradle

AndroidManifest: https://github.com/ramalakshmi17/nm-sleep-

tracking/blob/main/app/src/main/AndroidManifest.xml

Theme: https://github.com/ramalakshmi17/nm-sleep-

tracking/tree/main/app/src/main/java/com/example/projectone/ui/theme

AppDatabase: https://github.com/ramalakshmi17/nm-sleep-

tracking/blob/main/app/src/main/java/com/example/projectone/AppDatabase.kt

LoginActivity: https://github.com/ramalakshmi17/nm-sleep-

tracking/blob/main/app/src/main/java/com/example/projectone/LoginActivity.kt

MainActivity: https://github.com/ramalakshmi17/nm-sleep-

tracking/blob/main/app/src/main/java/com/example/projectone/MainActivity.kt

RegisterActivity: https://github.com/ramalakshmi17/nm-sleep-

tracking/blob/main/app/src/main/java/com/example/projectone/RegisterActivity.kt

TimeDatabaseHelper: https://github.com/ramalakshmi17/nm-sleep-

tracking/blob/main/app/src/main/java/com/example/projectone/TimeDatabaseHelper.kt

TimeLog: https://github.com/ramalakshmi17/nm-sleep-

tracking/blob/main/app/src/main/java/com/example/projectone/TimeLog.kt

TimeLogDao: https://github.com/ramalakshmi17/nm-sleep-

tracking/blob/main/app/src/main/java/com/example/projectone/TimeLogDao.kt

TrackActivity: https://github.com/ramalakshmi17/nm-sleep-

tracking/blob/main/app/src/main/java/com/example/projectone/TrackActivity.kt

User: https://github.com/ramalakshmi17/nm-sleep-

tracking/blob/main/app/src/main/java/com/example/projectone/User.kt

UserDao: https://github.com/ramalakshmi17/nm-sleep-

tracking/blob/main/app/src/main/java/com/example/projectone/UserDao.kt

UserDatabase: https://github.com/ramalakshmi17/nm-sleep-

tracking/blob/main/app/src/main/java/com/example/projectone/UserDatabase.kt

UserDatabaseHelper: https://github.com/ramalakshmi17/nm-sleep-

tracking/blob/main/app/src/main/java/com/example/projectone/UserDatabaseHelper.kt