



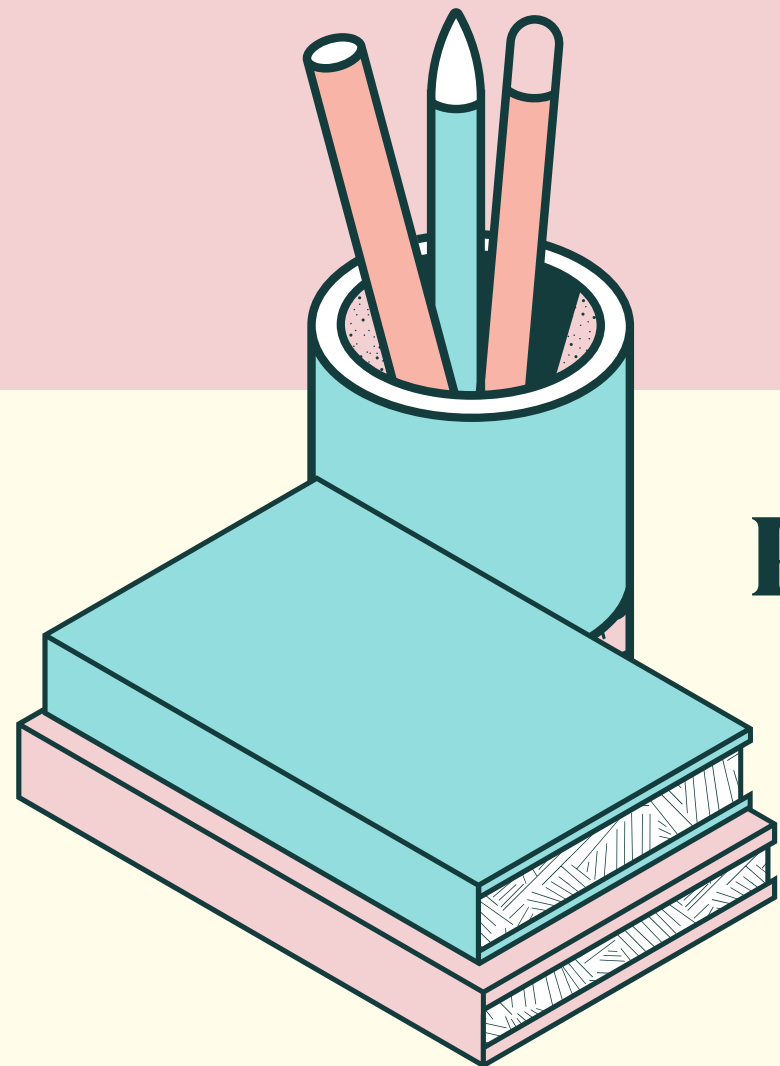
# **Vivekanand Education Society's Institute Of Technology**

## **Department Of Information Technology**

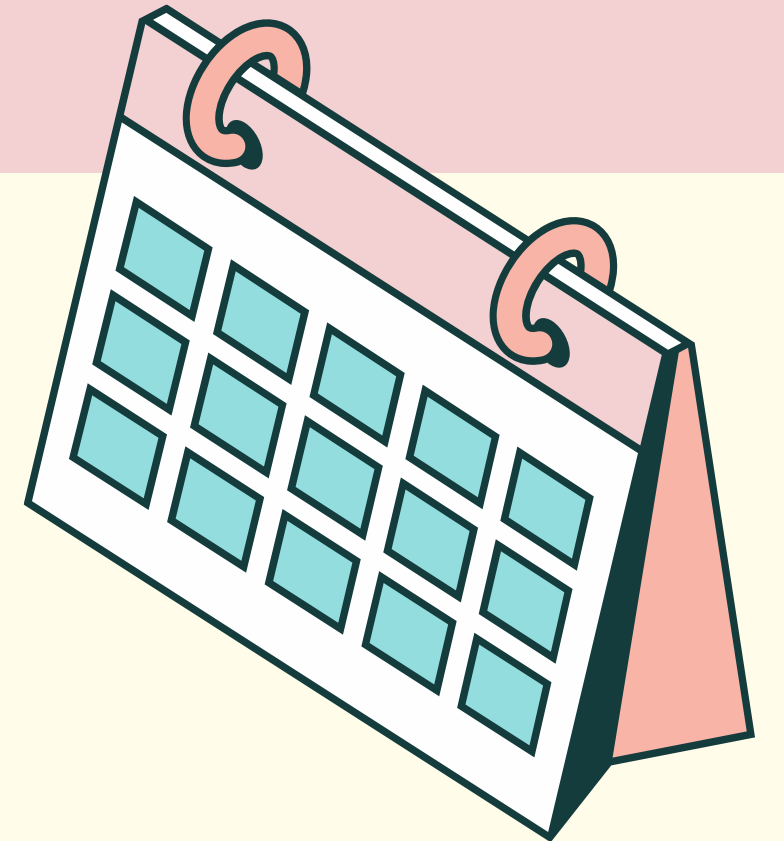
### **Flutter Presentation**

**Title: Habit Tracker**

**Mentor : Dr. Ravita Mishra**



**Presented by Anushka Karhadkar**



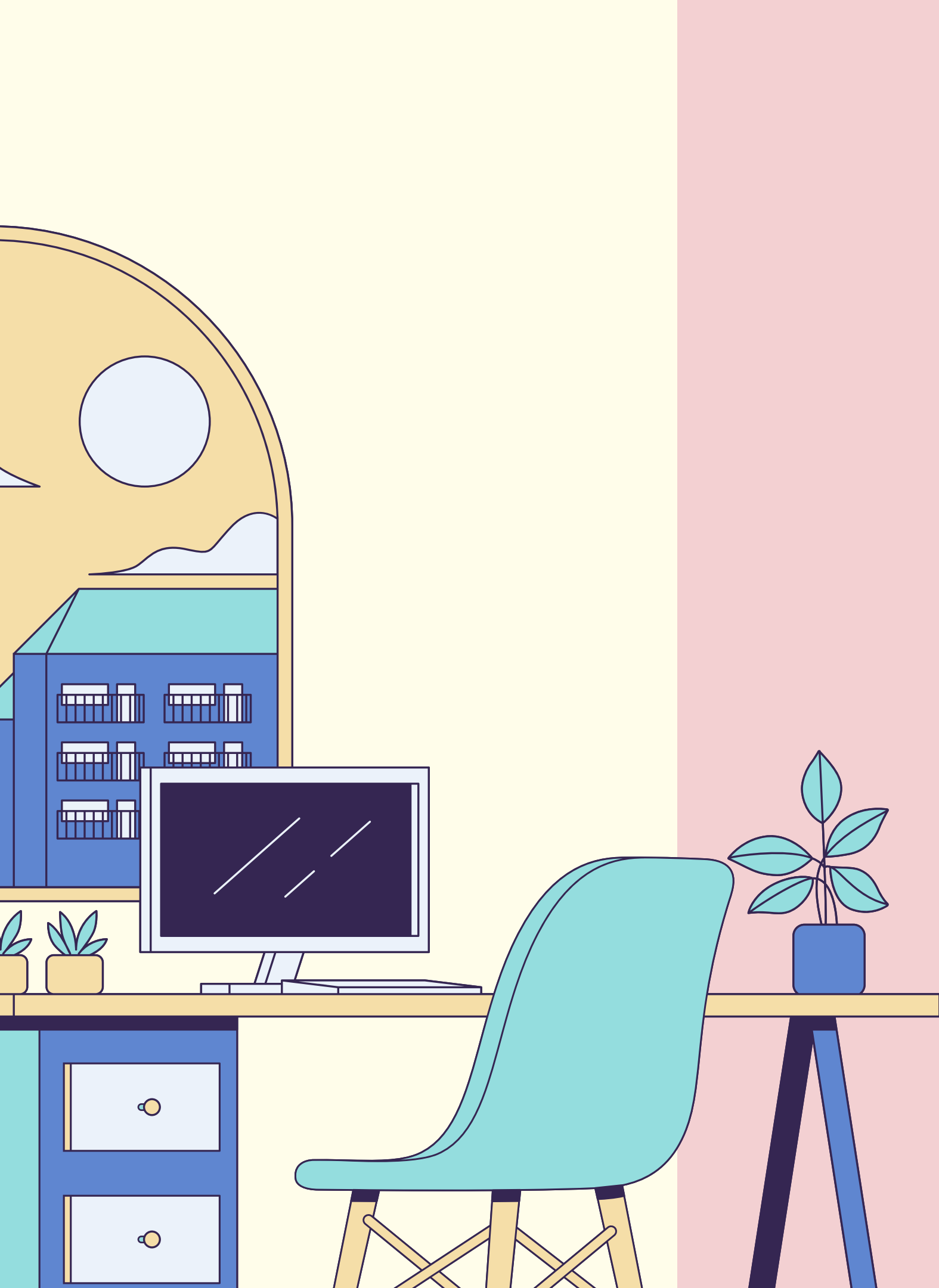
# OVERVIEW

- **Abstract**
- **Introduction**
- **Objectives**
- **Hardware and Software Requirements**
- **Implementation**
- **Future Scope**
- **Conclusion**
- **Reference**

# ABSTRACT

**In an era where personal development and self-improvement are paramount, habit formation plays a crucial role in achieving long-term goals and fostering a healthier lifestyle. This project presents the development of a mobile application built using the Flutter framework and Firebase, designed to facilitate effective habit tracking and cultivation.**



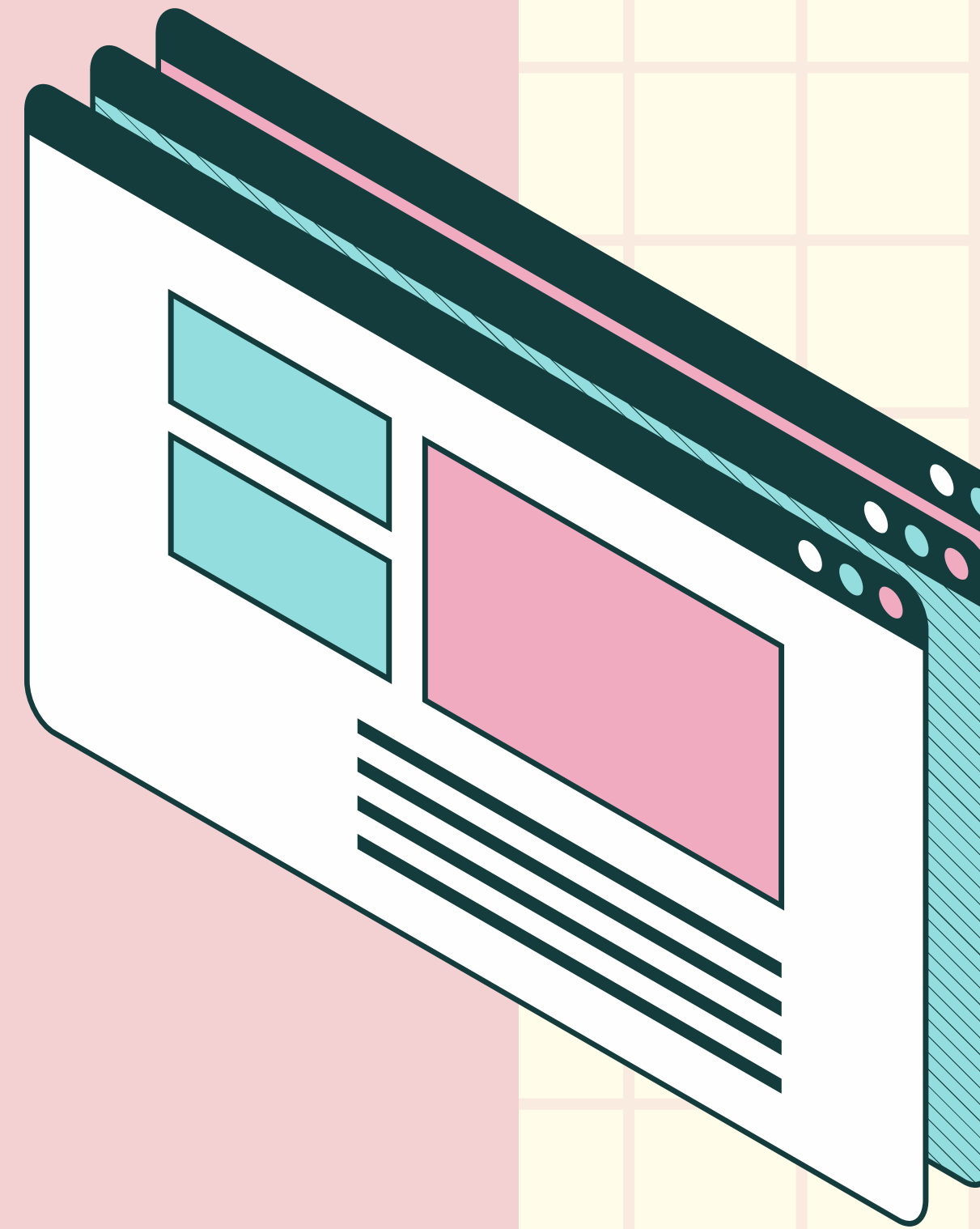


# INTRODUCTION

**In today's busy world, personal development and fostering healthy habits are pivotal. This project introduces a Flutter-based mobile app designed to support these goals. It offers seamless habit tracking with features like authentication, registration, and hobby management. Leveraging Flutter's versatility, our app ensures a consistent experience across different platforms, empowering users to effectively manage their habits for sustained progress and well-being.**

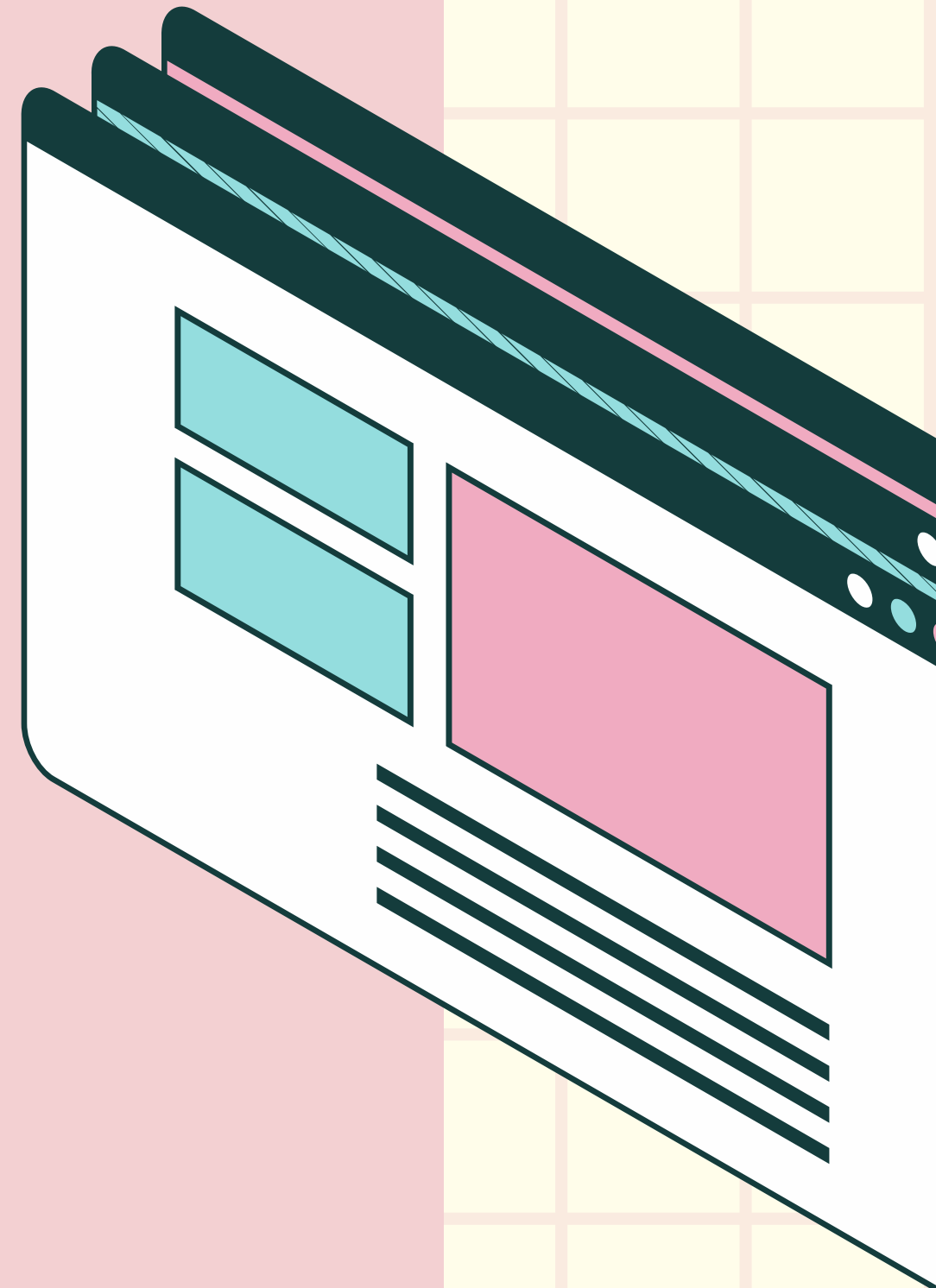
# OBJECTIVES

- 1** To create an intuitive and user-friendly platform that enables users to track their habits effortlessly.
- 2** Enable seamless management of listed hobbies
- 3** Ensure cross-platform compatibility



# OBJECTIVES

- 4** Implement a visually engaging heatmap that reflects users' habit completion progress in real-time, encouraging motivation and accountability.
- 5** Enhance user engagement through intuitive design



# HARDWARE AND SOFTWARE REQUIREMENTS

## HARDWARE

- **Processor:** Dual-core 2 GHz or equivalent
- **RAM:** 8 GB or higher
- **Storage:** SSD with at least 20 GB of free space
- **Operating System:** Windows 7 or later , or a recent version of a Linux distribution (Ubuntu,etc)
- **A stable internet connection** for downloading packages, and dependencies

## SOFTWARE

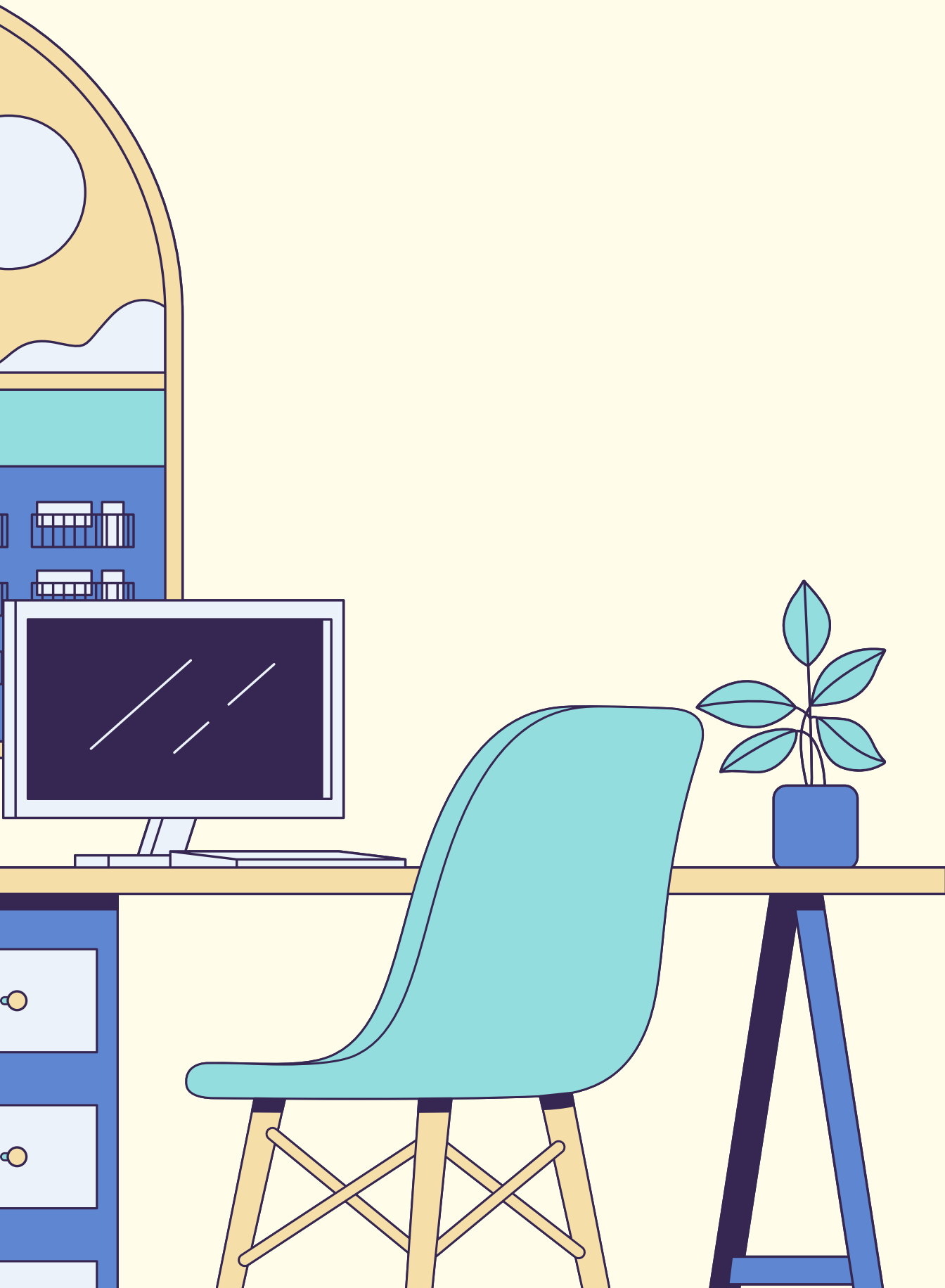
- **Flutter SDK**
- **Visual Studio Code**
- **Firebase**
- **Dart Programming Language**
- **Flutter Packages and plugins**
- **Git**



# UNIQUE FEATURES

## Dynamic Heatmap Visualization

- **Real-Time Progress Tracking:** Instantly see your habit completion patterns come to life through a colorful heatmap.
- **Motivational Insights:** The greener the heatmap, the more consistent you are with your habits, visually motivating you to keep going.

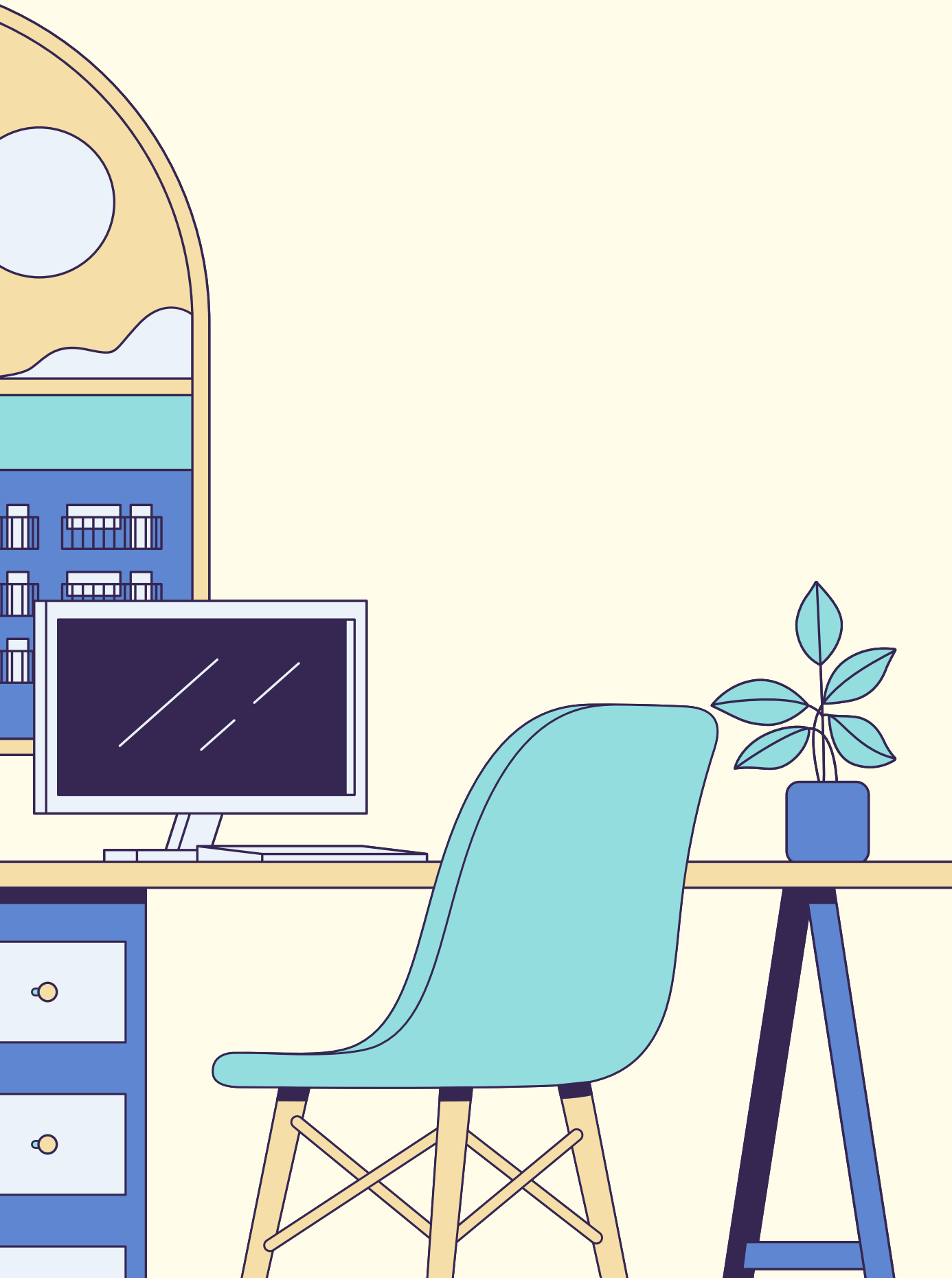




# UNIQUE FEATURES

## Adaptive Light and Dark Theme

- **User-Centric Design:** Choose between light and dark themes to suit your viewing preferences, reducing eye strain and enhancing app usability.
- **Seamless Transition:** Can switch between themes for a comfortable viewing experience, day or night.



# LITERATURE SURVEY

**Paper title:** The Effect of Tracking and Reflecting on Study Habits on Study Behavior and Grades

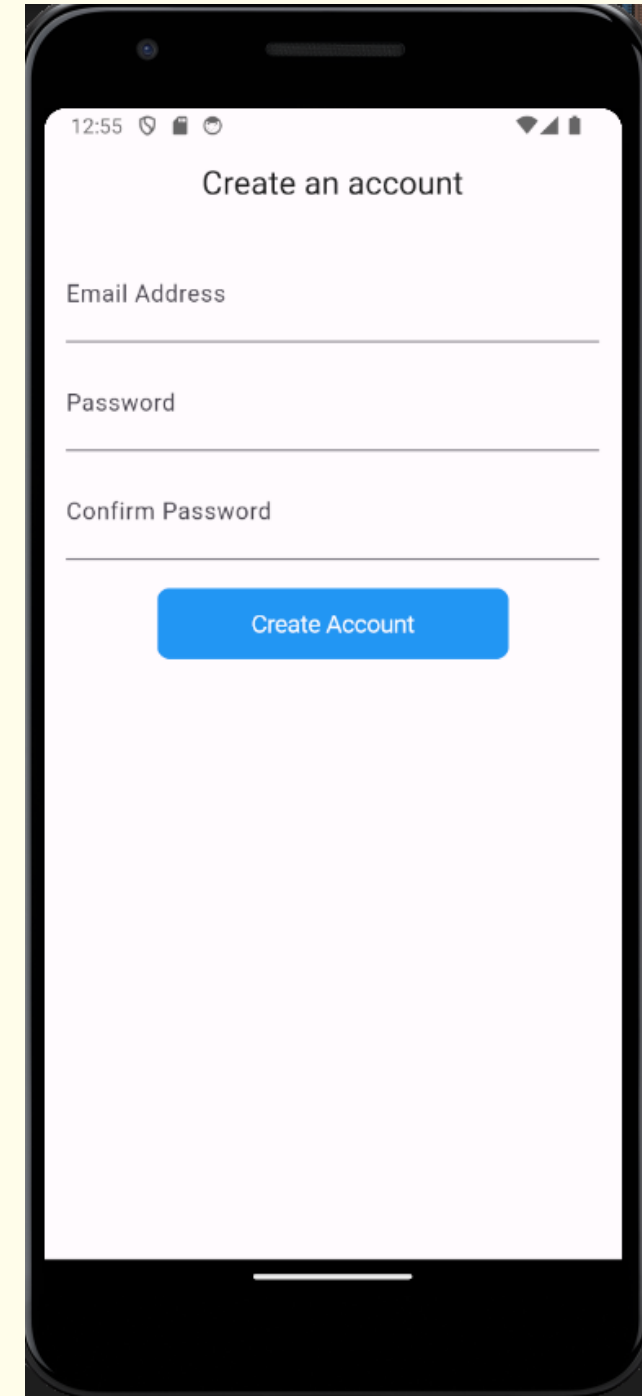
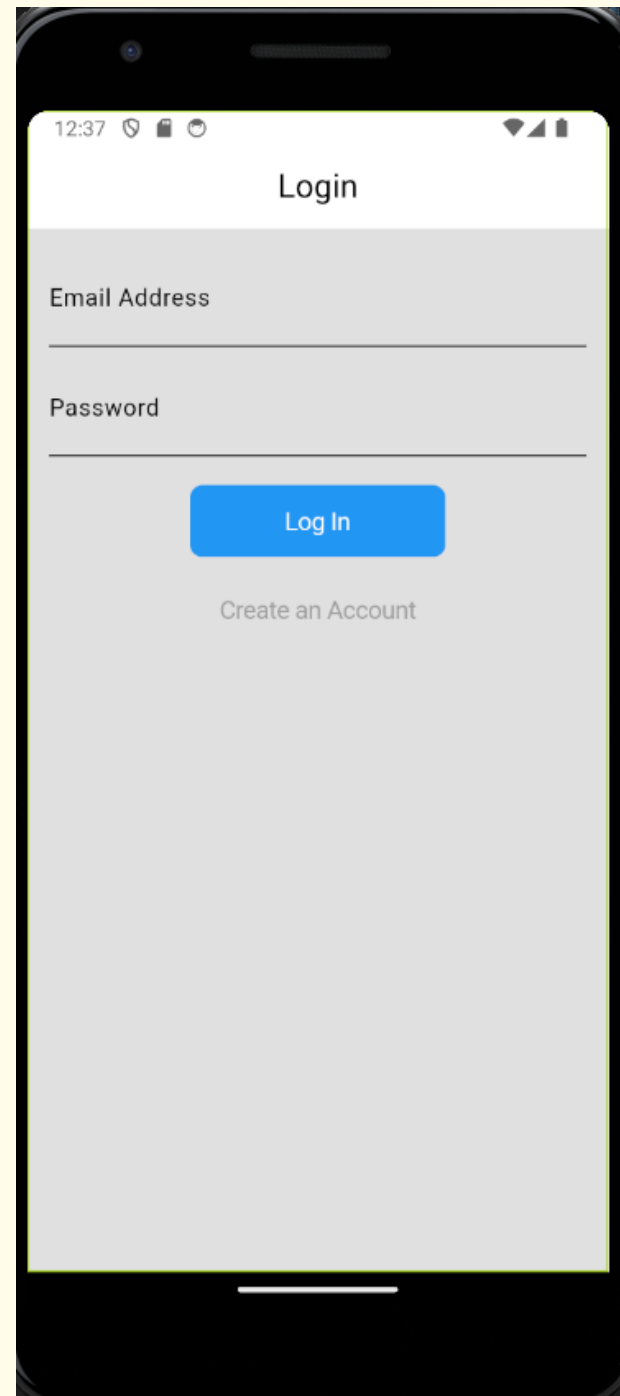
**Methodology:** Analyses of participant diaries and application logs indicate that tracking applications are far from accurate, but the act of tracking itself, paired with analysis of one's own data enables students to have stronger self-awareness of their studying habits.

**Paper title:** Habit Tracker and Advisor using Mobile Application for Health Monitoring

**Methodology:** The user is monitored for his/her habits and based on that commanders will set the activities or habits that user has to get habituated.

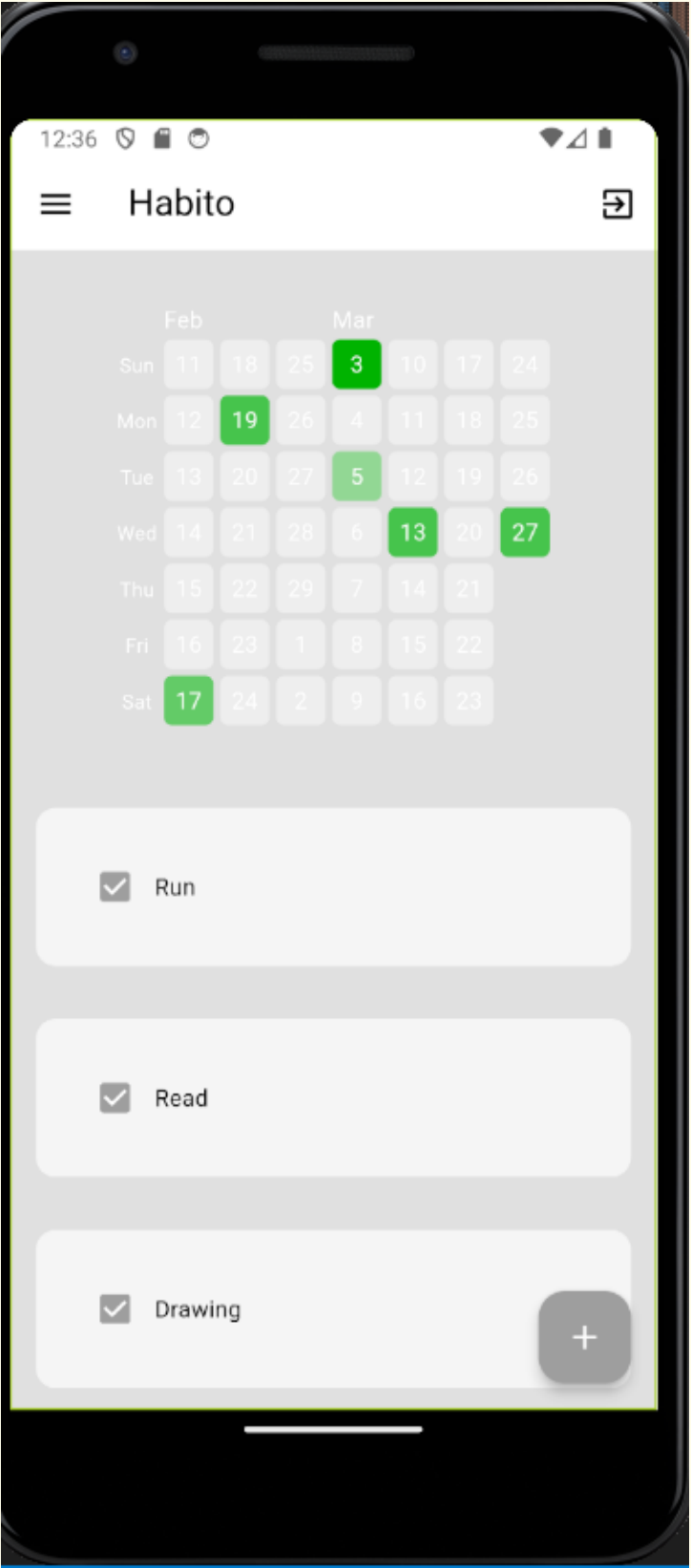
# IMPLEMENTATION

## Login and Register page



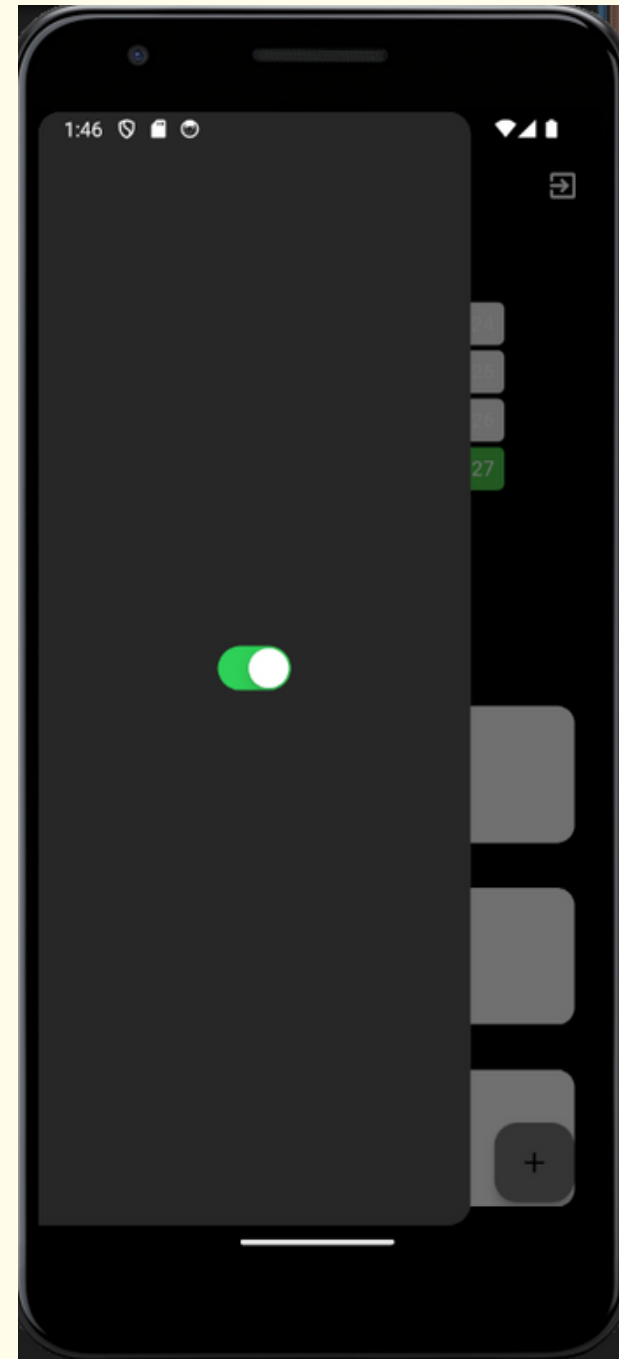
# IMPLEMENTATION

## HomePage



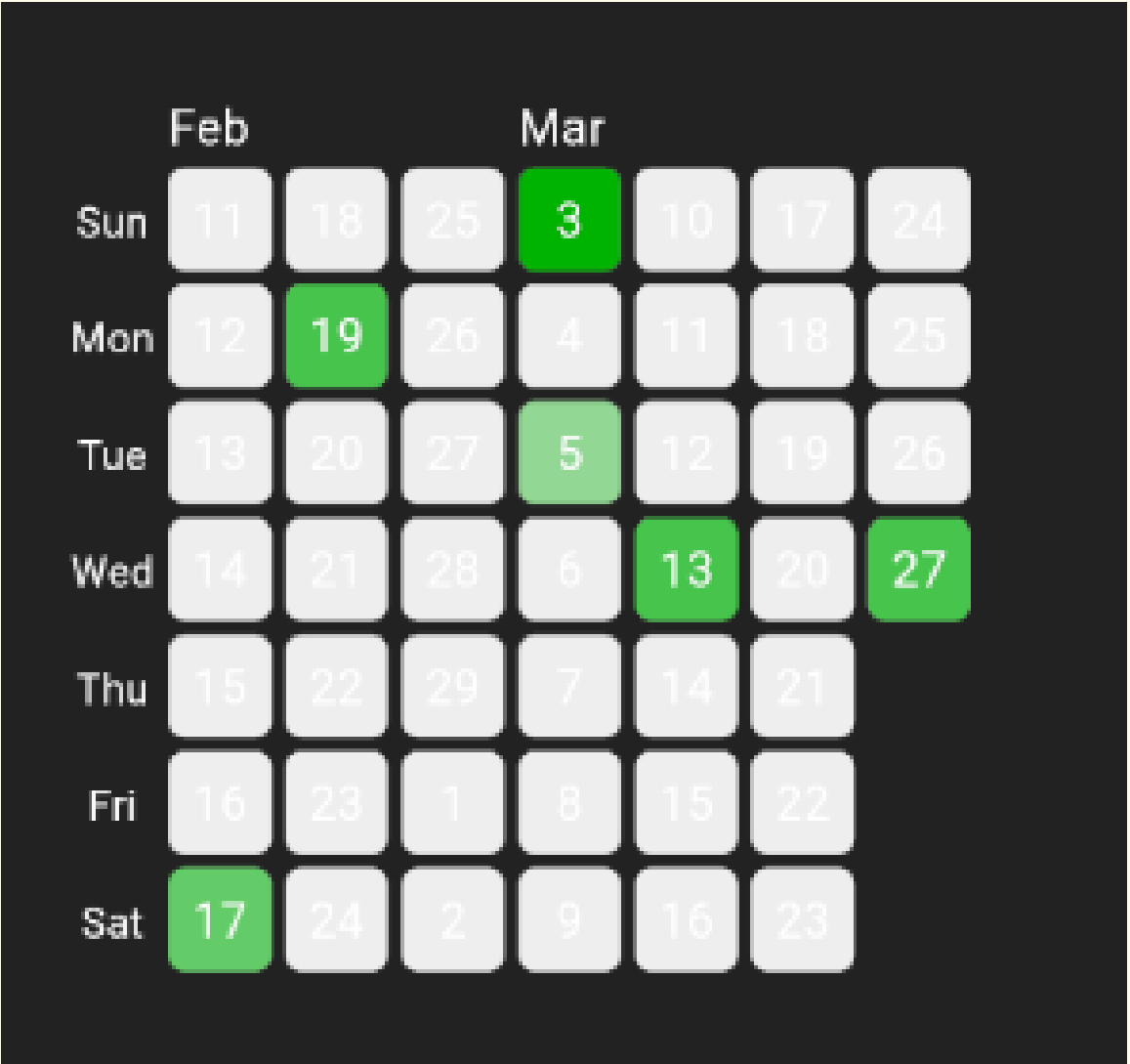
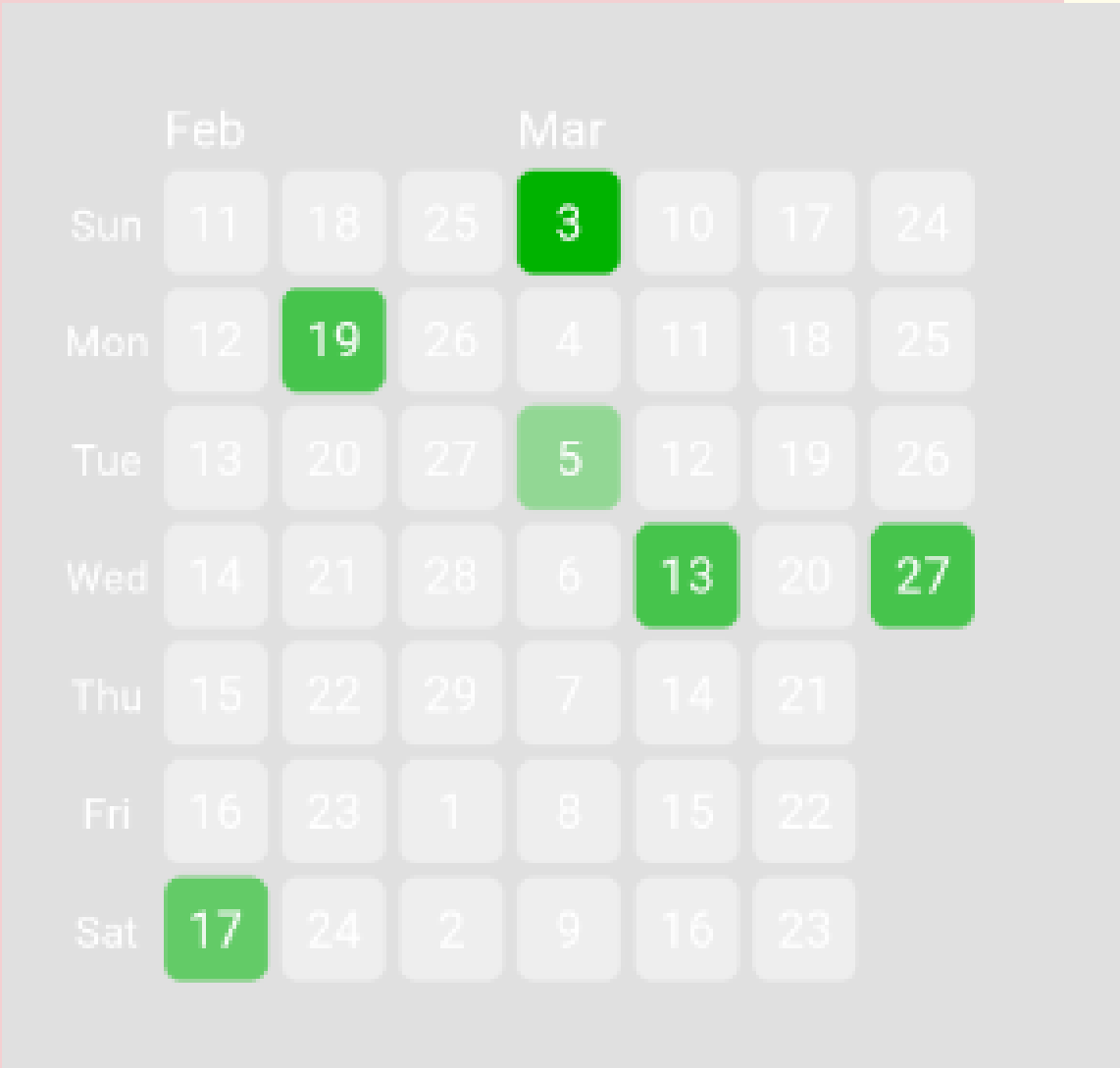
# IMPLEMENTATION

## Theme



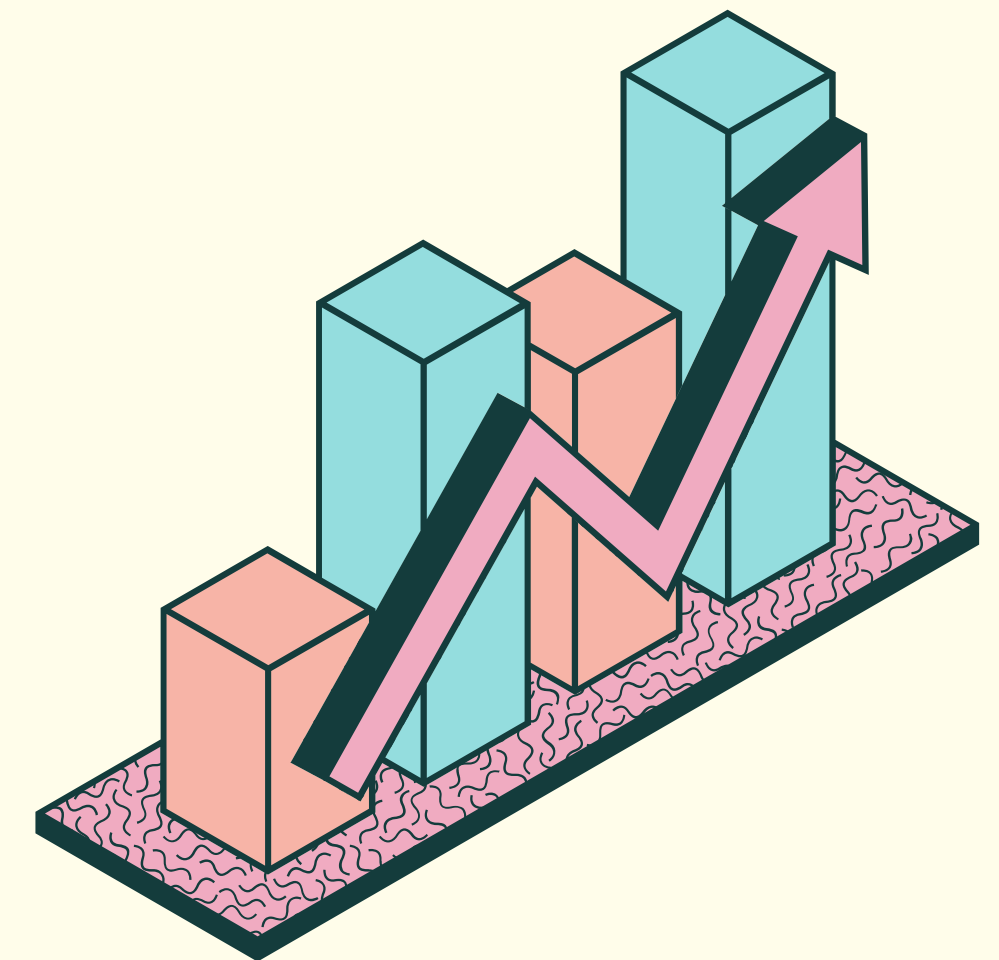
# IMPLEMENTATION

## Heatmap



# FUTURE SCOPE

- **Integration of Machine Learning:** Implement machine learning algorithms to analyze user habits and predict habit completion patterns.
- **Gamification Features:** Introduce gamification elements such as rewards, challenges, and leaderboards to increase user engagement and motivation.



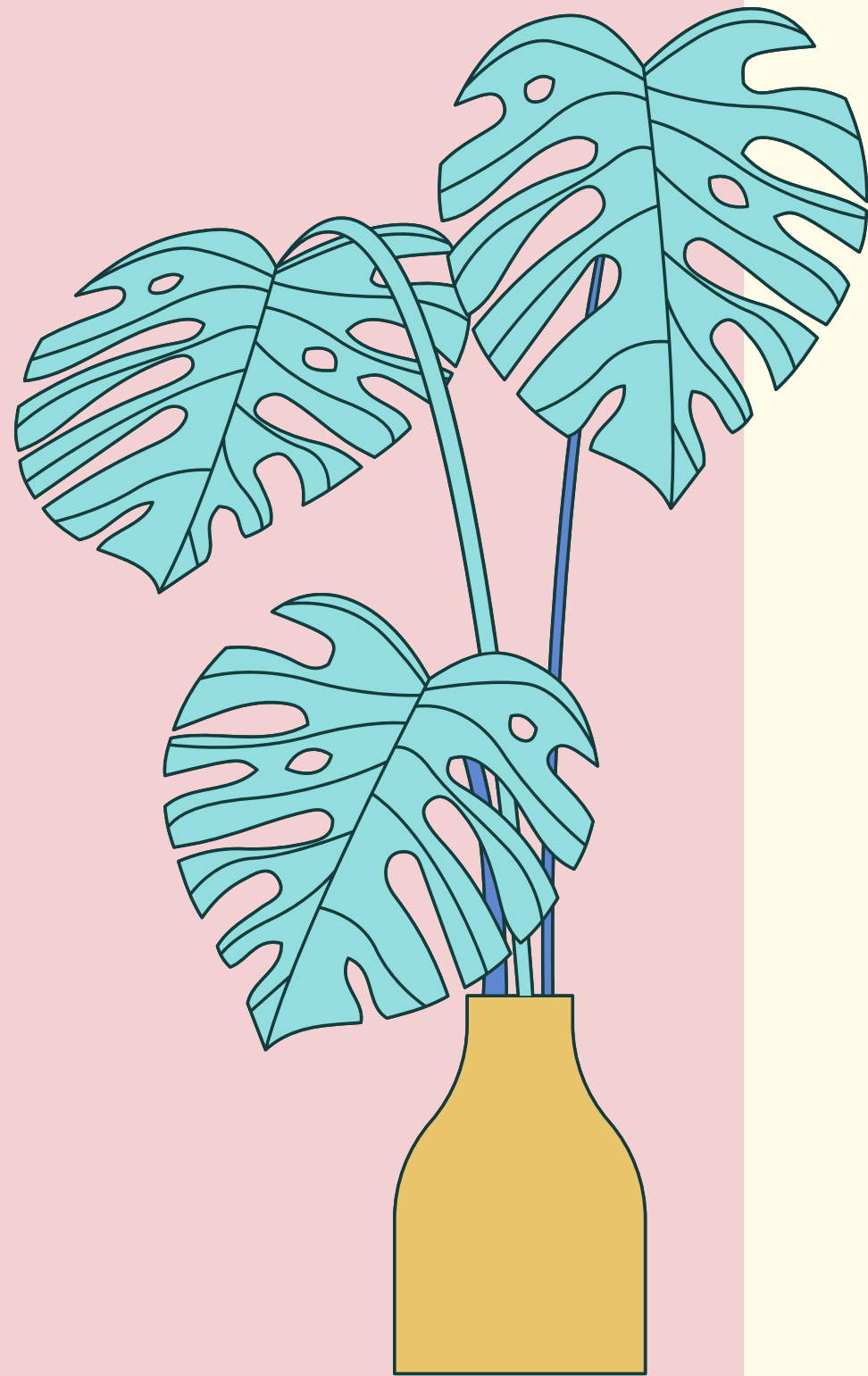
# CONCLUSION

**This Flutter-based habit tracking app provides a user-friendly solution for cultivating healthy habits and personal growth. With features like authentication, hobby management, and real-time habit visualization, users can track their progress effectively. Future integration of machine learning, and gamification, will further enhance the app's capabilities, ensuring continued support for users on their journey towards lasting behavior change and well-being.**





# REFERENCE



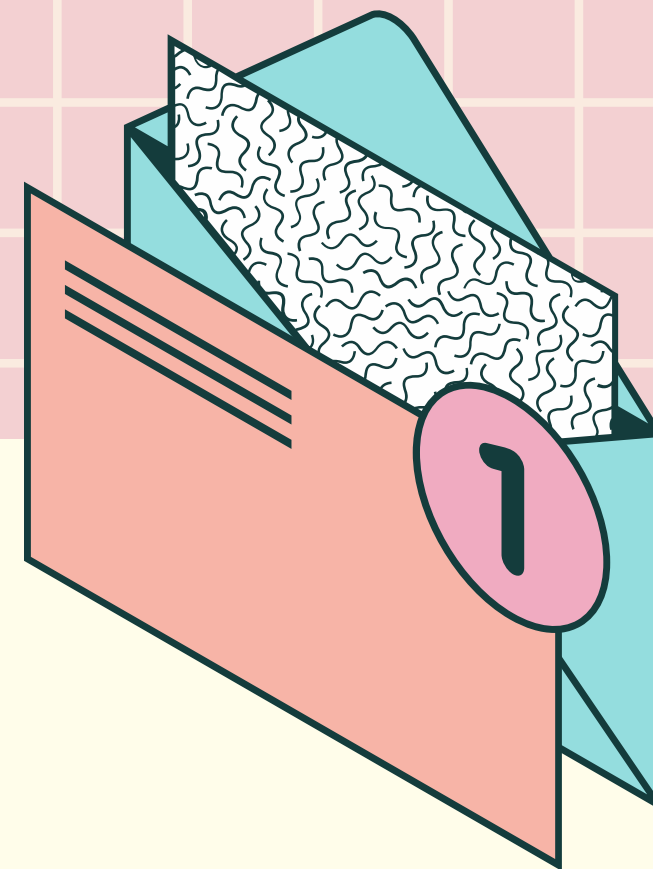
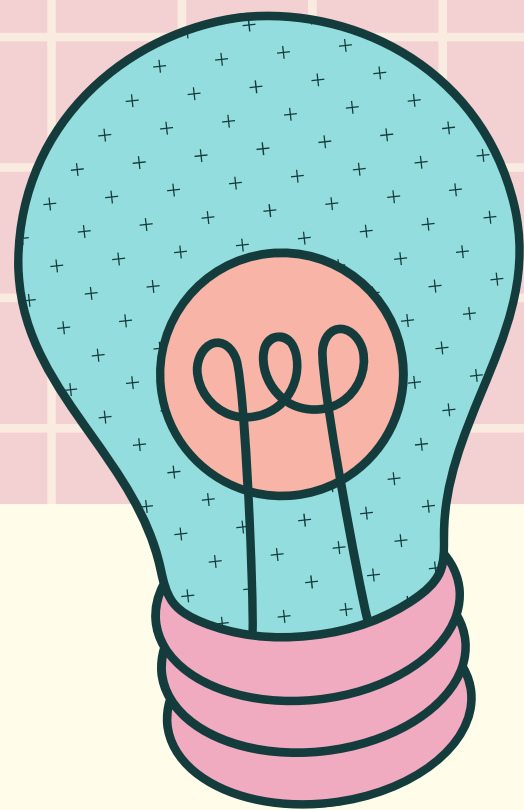
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**<https://ieeexplore.ieee.org/document/9716318>**

2

**<https://ieeexplore.ieee.org/document/9716318>**

# THANK YOU





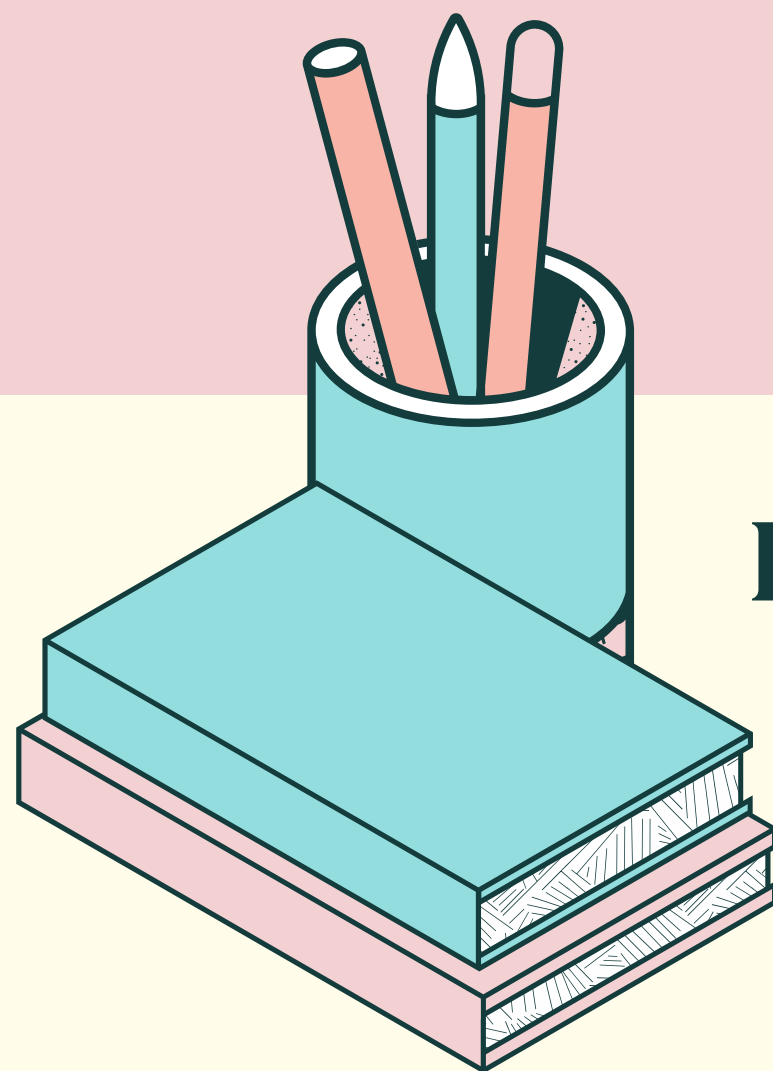
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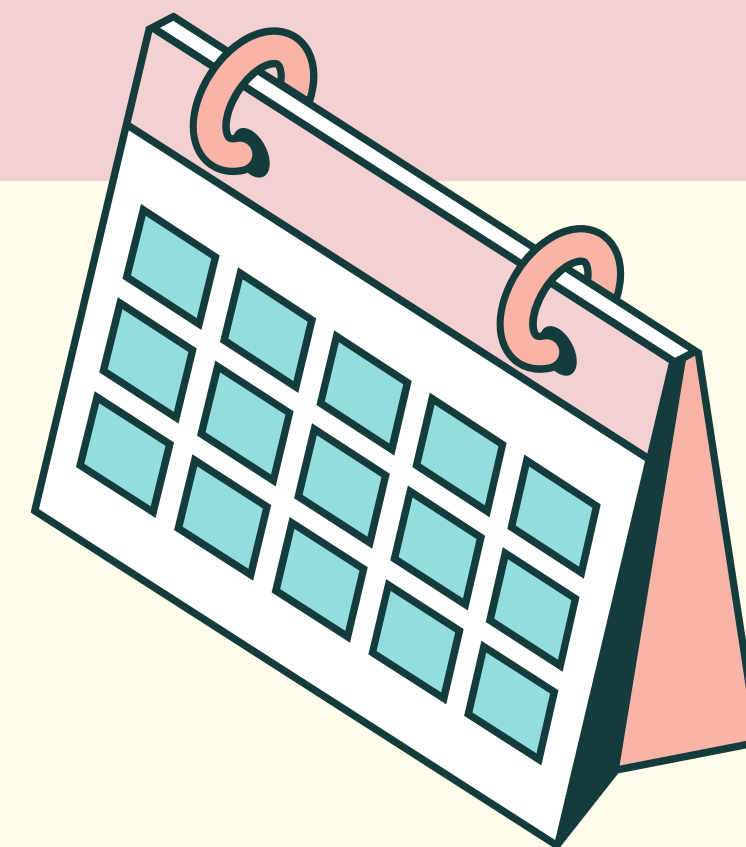
### **PWA Presentation**

**Title: Kitter E-commerce Website**

**Mentor : Dr. Ravita Mishra**

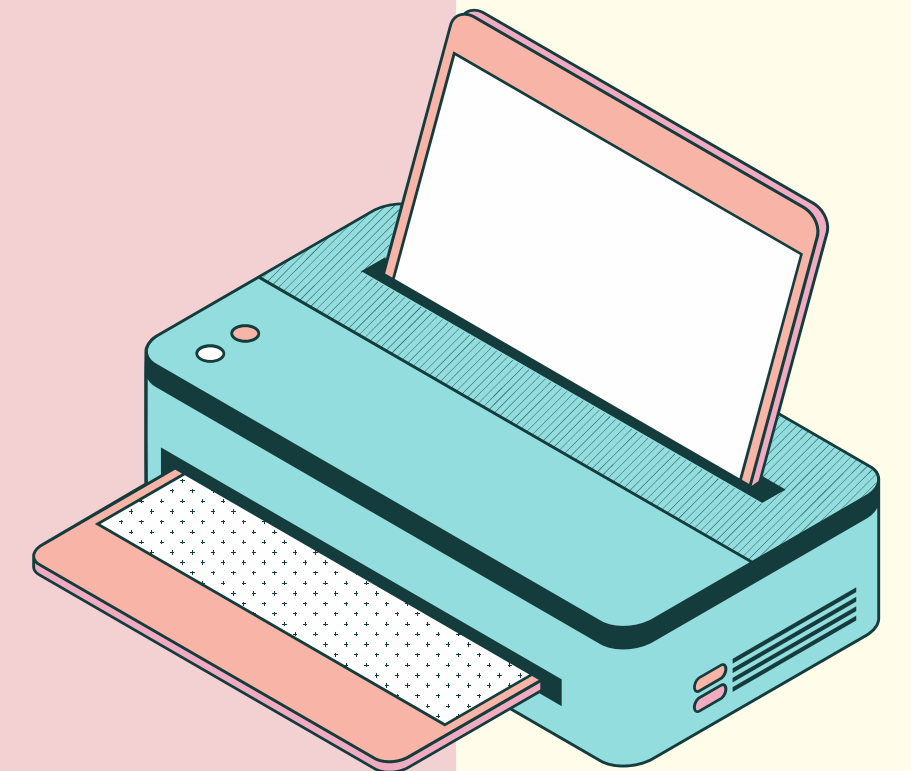


**Presented by Anushka Karhadkar**



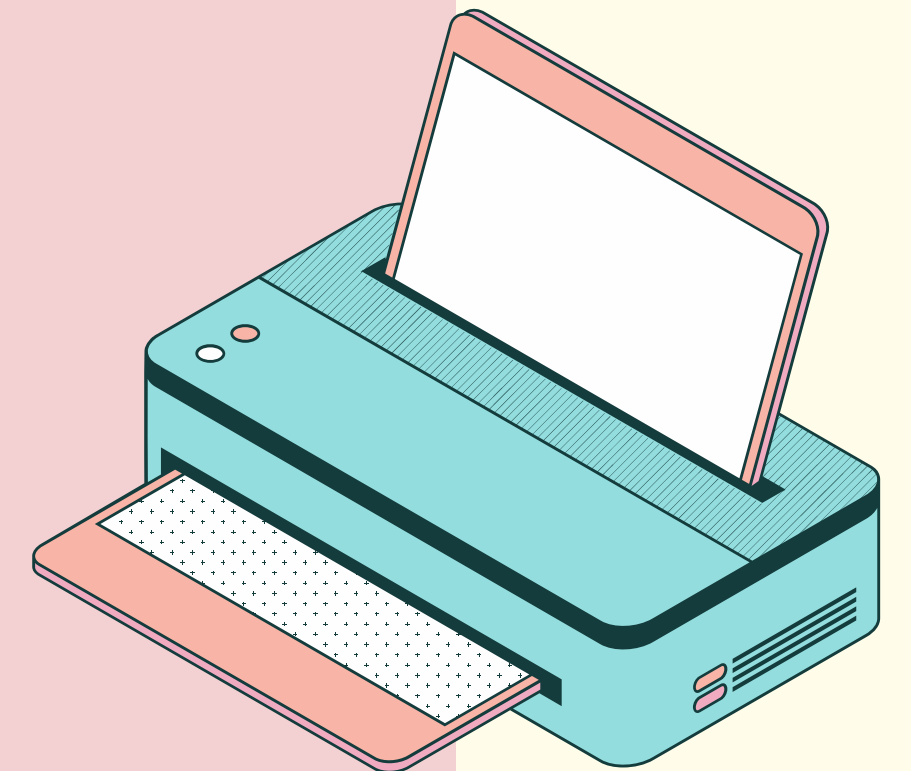
# FEATURES

- **Fast Load Times:** Register and activate the service worker to intercept network requests, allowing cached resources to load quickly and improving overall performance.
- **Offline Functionality:** Implemented a service worker to cache essential resources, enabling offline access to your E-commerce PWA even in low or no internet connectivity scenarios.




# FEATURES


- **Real-Time Updates:** Implemented service worker events such as fetch, sync, and push that enables real-time data synchronization and updates
- **Push Notifications:** push events to deliver timely notifications to users, keeping them informed about new offers, promotions, or updates .



# IMPLEMENTATION

## Home Page






**Taste Guarantee**

**Taste it, love it or we'll replace it... Guaranteed!**

At Petio, we believe your dog and cat will love their food so much that if they don't ... we'll help you find replacement. That's our taste guarantee.

Find out more


Best Seller



★ (1)

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\$00



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\$45.00



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Commodo leo sed porta

\$15.00




★★★

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\$4

# IMPLEMENTATION

## Fetch, Notification and Sync

 Kitter - High Quality Pet Food

Anushka

Hello Anushka!!

via Microsoft Edge

Console

Issues



top ▼



Filter

Default level

Fetch successful!

[Intervention] Images loaded lazily and replaced  
[2048113](#)

7 Fetch successful!

Notification permission granted

Sync successful!

Fetch successful!

Service Worker registered with scope: <http://localhost:3000/>

4 Fetch successful!

# IMPLEMENTATION

**Lighthouse Report**



# THANK YOU

