ClockIt

Your Personal Class Scheduler

Introduction

ClockIt, an Android app, helps students organize their class schedules, receive reminders, and visualize weekly tasks using an intuitive calendar interface.

Students often rely on screenshots of their class schedules to track their daily routines, especially at the beginning of the semester. ClockIt streamlines this process by providing an interactive and automated solution for quick and easy access to their schedule.

Target Audience

Students in high school or college

Busy Individuals needing routine

Anyone who prefers mobile organization over paper planners

Key Features

Add & Manage Classes
Title, location, time & repeated days
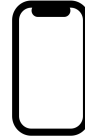
Location Notifications
Alerts students on how far they are from their next class.

Daily Schedule Overview
Weekly calendar with interactive day selection

Clean UI Design
Allowing for a seamless User experience

WireFrame (Sketch)

Final WireFrame (Figma)

February 2025

← Mon Tue Wed Thu Fri Sat Sun →
17 18 19 20 21 22 23

Today's Tasks:

CSC 430: College of Staten Island
Room 1N 118
9:05 – 12:05

CSC 330: College of Staten Island
Room 1N 118
2:05 – 3:15

New Entry X

Task: Type Here...

Description:

When:
Start: 00:00 AM ^   End: 00:00 AM ^

Repeat: ✔
Mon | Tue | Wed | Thu | Fri | Sat | Sun

Location: ✔

Search: 🔍

Add

ACTIVE

CSC 430: College of Staten Island
Room 1N 118
9:05 – 12:05

CSC 330: College of Staten Island
Room 4N 213
2:05 – 3:15

Dentist: Brooklyn, NY, 214 5th Ave
Bring Insurance card
3:00 PM

Pick Up Sister: JFK Airport
Buy her choclate
11:15 AM

Meal Prep:
Breakfast: 800 Calories
Lunch: 800 Calories
Dinner: 1100 Calories
4:00 P

Figma Demo

Development Process

Tools Used

Android Studio
(Kotlin + Compose)
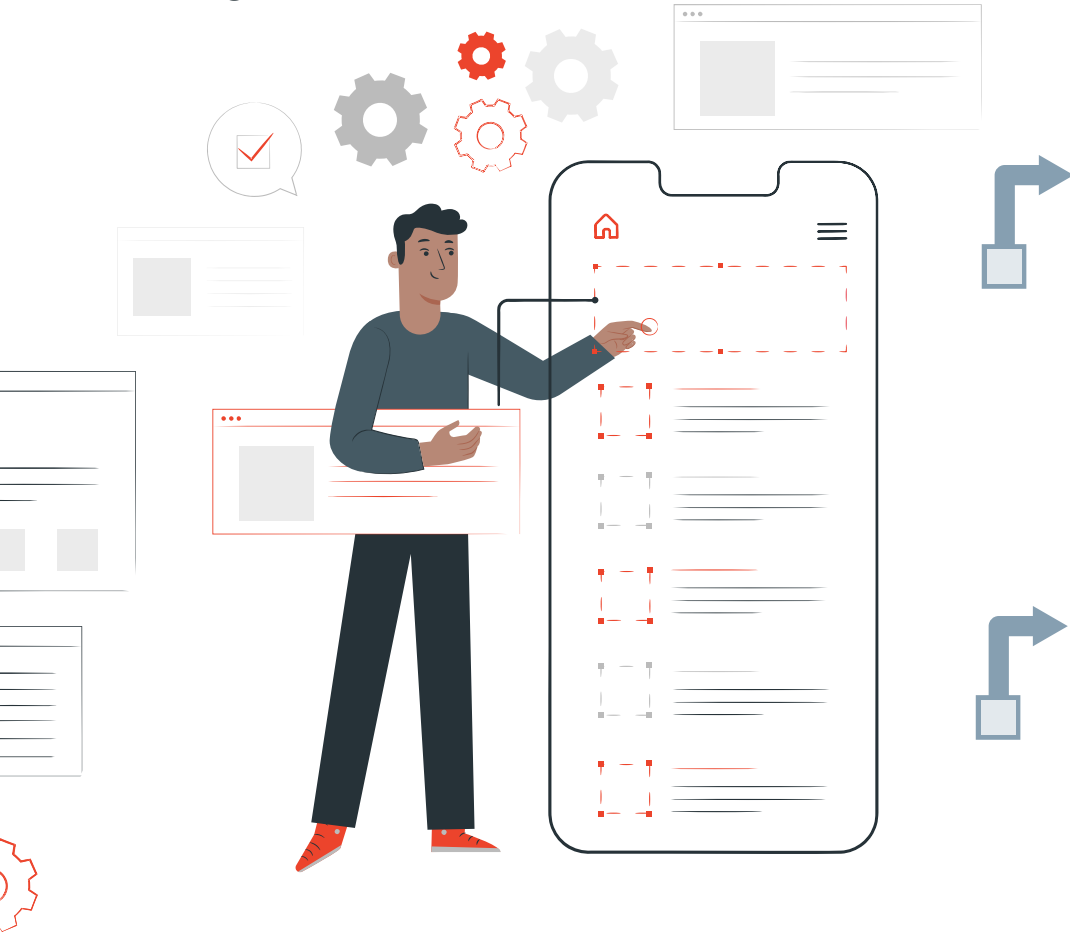• Firebase
– Auth & data

Architecture

MVVM pattern
– ViewModel
• Composables
– UI + state
• NavHost
– In-app routing

Version Control

• GitHub
– branching model

Challenges We Faced Pt1:

Learning Android Studio

- First time using Android Studio for a full project
- Emulator and build times were slow
- Occasional crashes made development frustrating

Firebase Integration

- Learning how to connect Firebase with the app
- Setting up authentication and user data storage
- Debugging configuration and permission errors

Challenges We Faced Pt2:

Relearning Concepts

- Remembering how to use Jetpack Compose syntax
- Managing state and recomposition properly
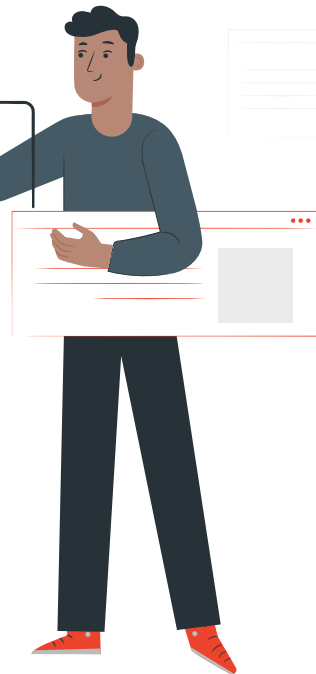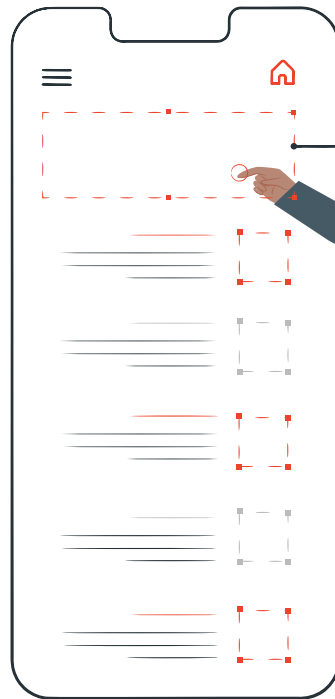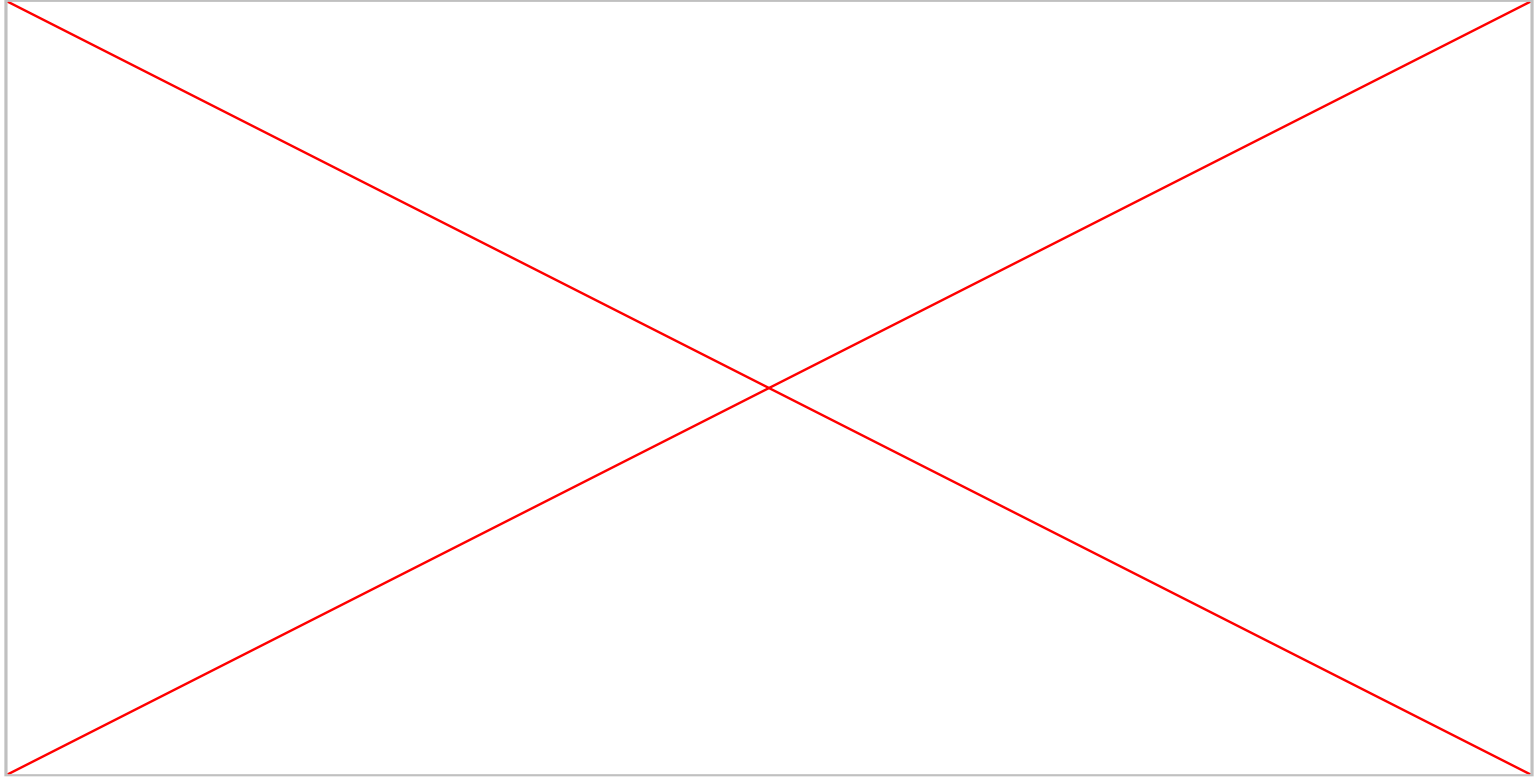- Structuring composables and ViewModels correctly
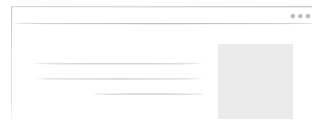
Figuring Out What's Possible

- Some ideas (like push notifications) seemed simple but were complex
- Learned that sending a reminder on a phone requires:
    - Creating a Notification Channel
    - Setting up AlarmManager or WorkManager
    - Using a BroadcastReceiver to trigger the notification

ClockIt Demo

Database

Authentication

Users | Sign-in method | Templates | Usage | Settings | 🌐 Extensions

ℹ️ The following Authentication features will stop working when Firebase Dynamic Links shuts down on August 25, 2025: email link authentication for mobile apps, as well as Cordova OAuth support for web apps. ⌄

🔍 Search by email address, phone number, or user UID   [Add user] ↻ ⋮

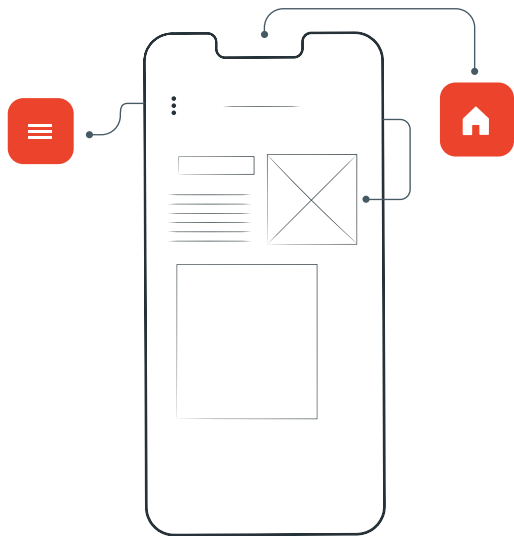| Identifier	Providers	Created ↓	Signed In	User UID
cquach269@gmail.com	✉️	May 13, 2025	May 14, 2025	8ARX1zeVQEMxQxuFjsCfpwb...

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Conclusion

ClockIt aims to make class scheduling easier and smarter

Push Notification

Inspiration Quote

IOS version

More customizations options on design
- Dark Mode Toggle

Thanks!

ClockIt