

# FocusApp Summary

## What it is

FocusApp is a native macOS study companion for Data Structures and Algorithms preparation. It tracks a 13-day core plan plus a 2-day priority sprint, daily habits, focus tools, and a built-in coding environment, and syncs solved problems from LeetCode.

## Who it is for

Primary users are macOS learners preparing for DSA and LeetCode-style problems who want a guided plan, synced progress, and integrated practice tools.

## What it does

- Syncs solved problems from LeetCode and keeps progress accurate.
- Guides a 13-day core plan plus a 2-day priority sprint (25 problems).
- Tracks daily habits and overall progress statistics.
- Provides a built-in coding environment with Swift and Python editors and test case execution.
- Offers a focus timer overlay and focus reminders in the UI.
- Shows an always-on-top floating widget with today, tomorrow, and carryover tasks.
- Visualizes data structures via the Data Journey views (lists, trees, graphs, and more).

## How it works

- Clean/VIPER-style flow: Views observe Presenters, which delegate to Interactors that update the AppStateStore and FileAppStorage.
- Data and persistence: Models define plan and app data; SwiftData storage lives in Shared, and bundled solutions load from Solutions.json via SolutionStore.
- Services: LeetCodeService with networking and sync scheduler updates progress, while ProcessRunner and language executors run code for Swift and Python.

## How to run

1. Open FocusApp.xcodeproj in Xcode.
2. Press Cmd+R to build and run.