

Hawn App

Hawn software developed by XPeart.

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Program functions

- Main Function:

Helps the user achieve psychological comfort through:

Audio meditation sessions.

Daily recording of feelings (mood).

Mental health tips and articles.

Daily notifications to remind the user to relax and meditate.

Functions and Features in Technical Detail:

1. Guided Meditation Sessions:

Database: Firebase or SQLite to save links.

Play Audio: Using the just_audio library or audioplayers.

User Interface:

Session Name

Session Duration

Play/Pause Button

UI Effects such as animation upon launch

2. 📖 Journaling + Mood Tracker:

Choose Mood: Emoji (😊 😐 😞)

Write Today's Feeling: Text saved locally or in Firebase.

Mood Analysis: Chart your mood for a week or month using `fl_chart`.

Data Storage: SQLite or Firebase Firestore.

3. 📖 Mental Health Articles:

Data Source:

From Firebase Firestore.

Or an open API such as [MentalHealth.org](https://www.mentalhealth.org).

Features:

Liking/Favorite.

Save articles and read them later (offline).

4. 🔔 Daily Notifications:

Uses the `flutter_local_notifications` library.

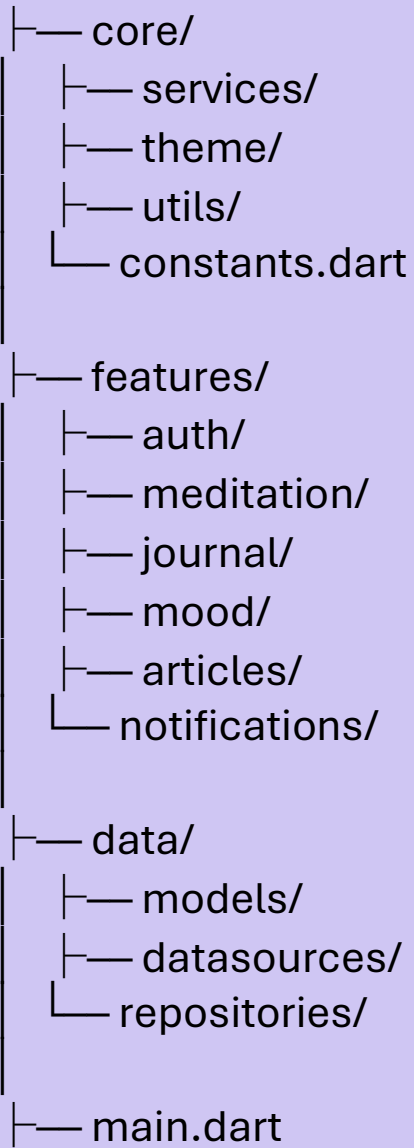
Function: Every day at a specific time (e.g., 8 PM), a notification appears:

"Take a minute for yourself ✨."

User Settings: The reminder time can be changed or turned off.

Project partitioning: files and folders

lib/



main.dart

Is the application's launch point.

It contains:

MaterialApp definition

Theme setup

InitialRoute

Firebase or any initial services configuration

 core/

Files shared across all parts and used in more than one feature.

 services/

Such as:

Firebase

SharedPreferences

Audio Player

 theme/

The overall theme of the application (colors, fonts, light/dark mode).

 utils/

Utilities (such as date conversion functions, SnackBar display, etc.).

 constants.dart

Global constants such as page names, primary colors, and static text.

 features/

Each feature is located within its own folder.

 auth/

Log in / Register / Guest

Files:

auth_screen.dart

auth_view_model.dart

auth_service.dart

 meditation/

Meditation Sessions

Files:

meditation_screen.dart

meditation_audio_service.dart

meditation_model.dart



journal/

Journal Writing

Files:

journal_screen.dart

journal_model.dart

journal_controller.dart



mood/

Mood Tracking

Files:

mood_screen.dart

mood_tracker_service.dart

mood_model.dart



articles/

View Mental Health Articles

Files:

articles_screen.dart

articles_service.dart

articles_model.dart



notifications/

Send Notifications Daily

Files:

notification_service.dart

User time settings



data/

A folder responsible for data only.



models/

Each model represents a specific entity, such as:

UserModel

MeditationSessionModel

MoodEntryModel


 datasources/

Where do we get the data from?

API

Firebase

SQLite

 repositories/

Connects data and business logic.

Interfaces for dealing with data in a general and flexible manner.

Objectives

- Hussein provides psychological comfort to users.
 - Helps them express their feelings daily.
 - Provides psychological awareness content in a simple way.
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Target Users

- For students, employees, and people experiencing stress.
 - Anyone interested in meditation and mental well-being.
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Marketing Features

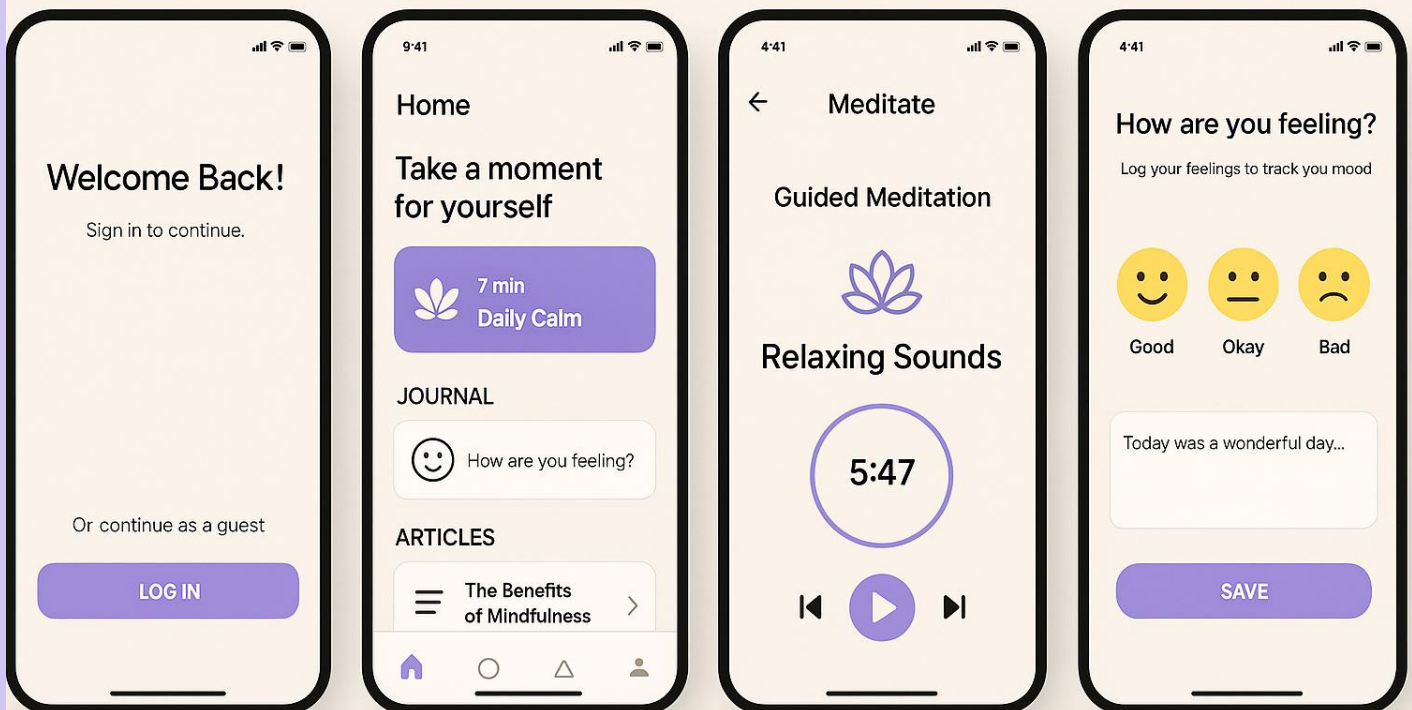
Very useful for students and employees dealing with stress.

It can be linked to Google Fit or Apple Health.

A paid version with advanced sessions is available.

UI Screens Overview

- Welcome Screen
- Home Screen
- Meditation Sessions Screen
- Journaling Screen
- Articles Screen



Key Features

- Guided Meditation
 - Mood Tracker
 - Daily Journal
 - Notifications
 - Articles Feed
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ICOAN APP

