



PROBLEM OVERVIEW

Problem Identification:
Many users struggle to
efficiently manage multiple
tasks and events, leading to
missed deadlines and
decreased productivity.
There is a need for a
simple, unified platform to
organize, schedule, and
track tasks and events.

User Impact:
Users often forget
important tasks or events
due to lack of timely
reminders and a
centralized management
system. This impacts their
daily workflow and
productivity.

Market Gap Analysis:
Existing solutions are
either too complex or lack
essential features such as
seamless scheduling,
notifications, and easy task
management. There is an
opportunity to provide a
user-friendly.

Problem Validation:
Research and feedback
indicate a strong demand
for an intuitive app that
combines task and event
management with and
persistent storage.



Core Innovation:

ActionPad is an Android application designed to address market gaps with unique features and an intuitive design. It enables users to create, manage, and schedule multiple tasks and events, with timely notifications and secure data storage.

Key Benefits:

- Seamless user interaction
- Improved efficiency and productivity
- Enhanced functionality with easy CRUD operations for tasks and events

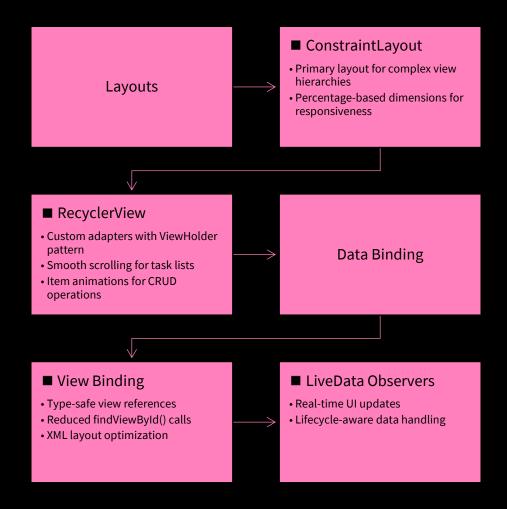
Technical Edge:

- Built using modern Android architecture (MVVM)
- Utilizes Industry standard tech development practices and tools

Technical Implementation











Networking

- Retrofit + Coroutines
- Type-safe REST API client
- Suspend functions for async calls
- Error handling with try/catch blocks
- JSON Parsing
- Moshi/Gson for serialization
- Data classes for API models

Local Storage

- Room Database
- SQLite abstraction layer
- DAO interfaces with @Query annotations
- Migration handling for schema changes

Live Demo: ActionPad in Action







User Authentication

Quick registration & secure login/logout



Task & Event Creation

Add new tasks/events with title, description, date & time



Task List Management

View, update, and delete tasks in an organized list



Scheduling & Notifications

Set reminders and receive timely notifications

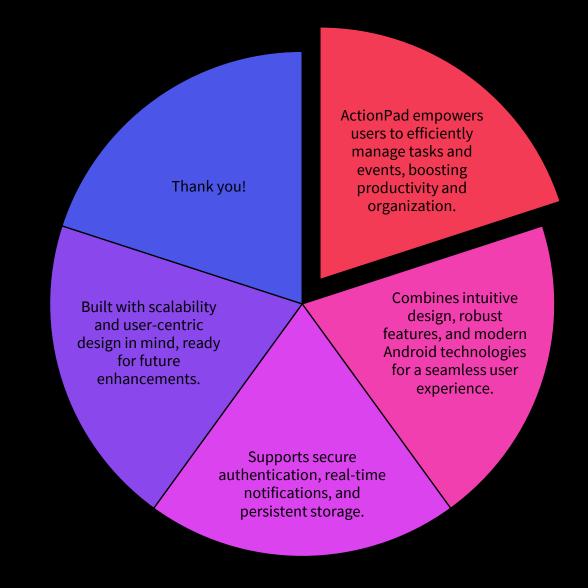


Seamless Navigation

Intuitive interface with smooth transitions



Conclusion







Team Appstronauts

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CONTRIBUTION

Name	Contribution Area
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Chirag MV Gowda	App architecture, MVVM pattern implementation, code integration
Shanthanu	UI/UX design, Material Design layouts, navigation
J S Abhinav	Firebase integration, authentication module
Mannepalli Balaji	Task & event CRUD operations, RecyclerView adapters
Tarlana Vikas	UI/UX design, Material Design layouts
Kandukuru Ramchandra	Database design, Room/SQLite implementation, testing & bug fixes

