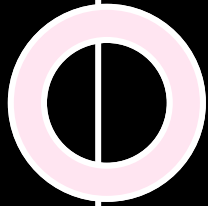


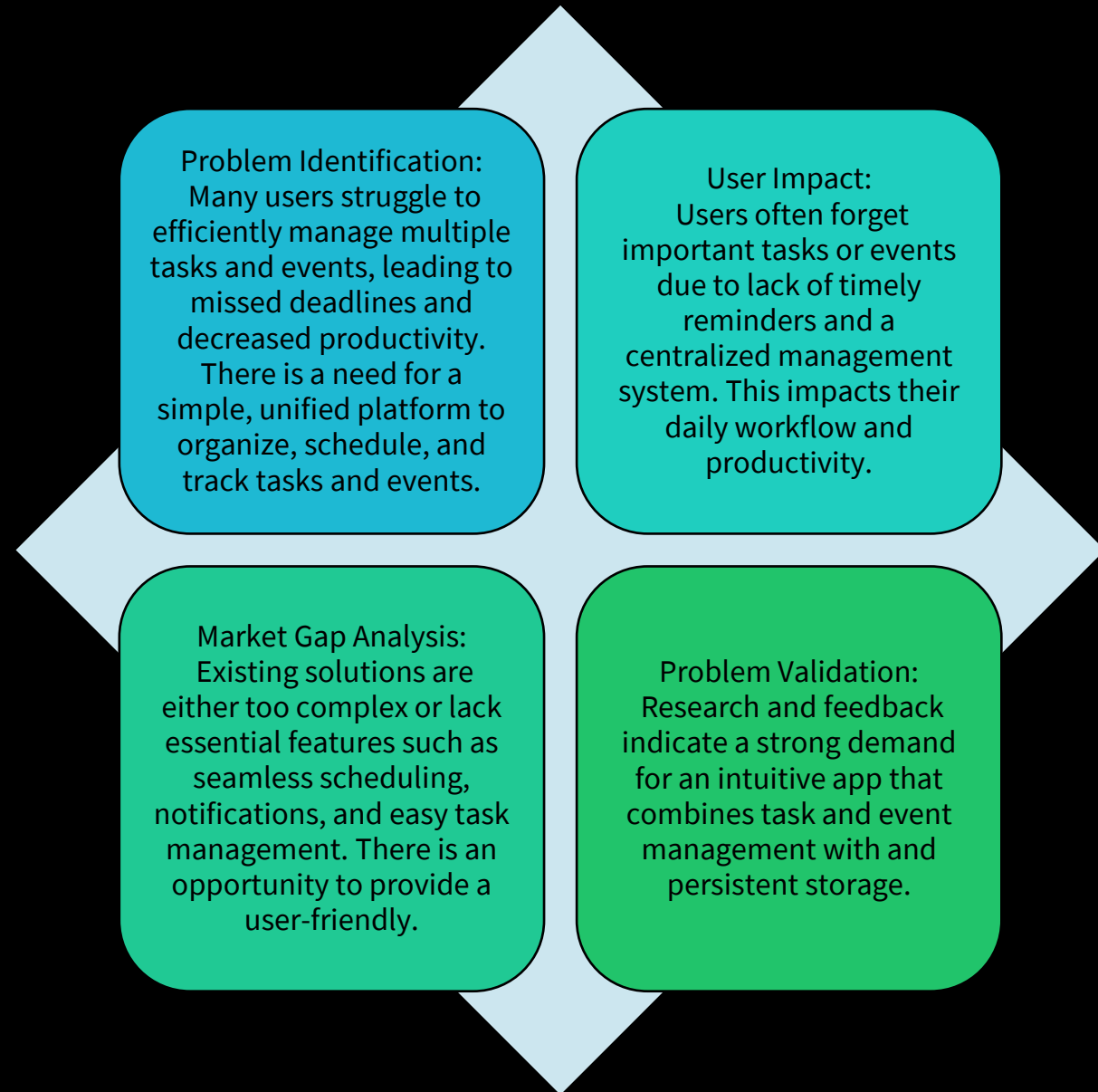
# APP DEVELOPMENT PROJECT

- TEAM  
APPSTRONAUTS





# PROBLEM OVERVIEW





# SOLUTION OVERVIEW

## 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:

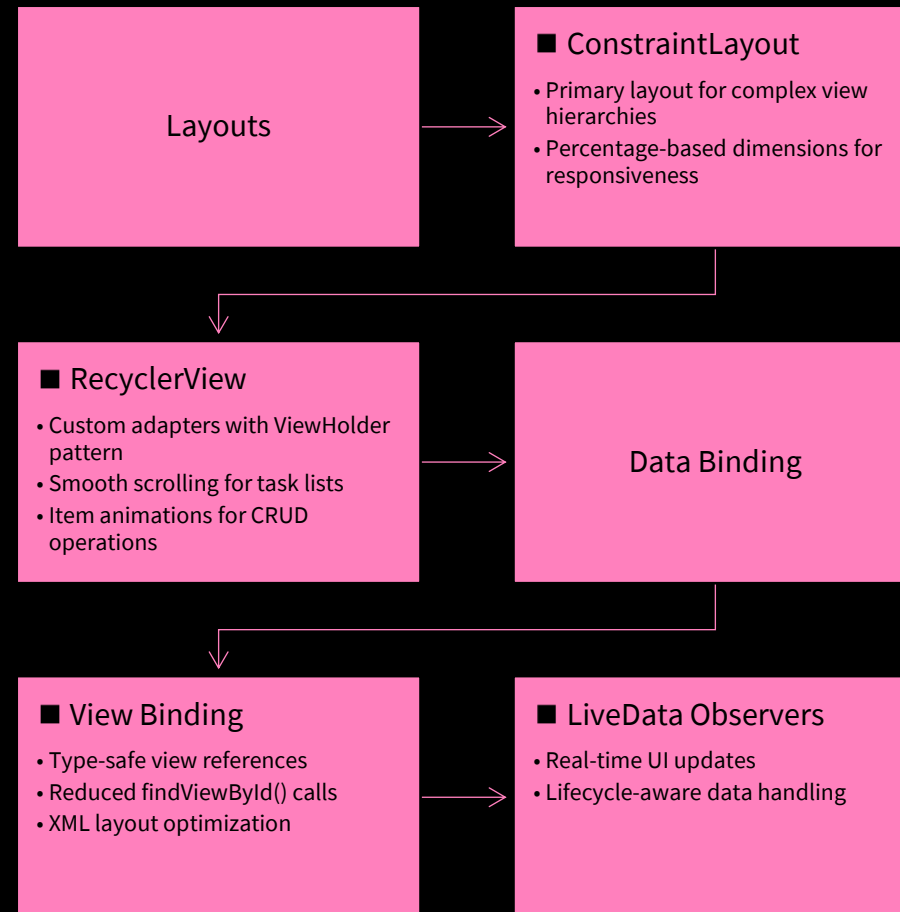
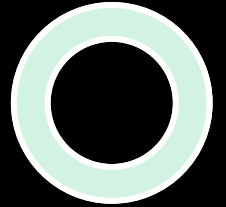
- Seamless user interaction
- Improved efficiency and productivity
- Enhanced functionality with easy CRUD operations for tasks and events

## 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

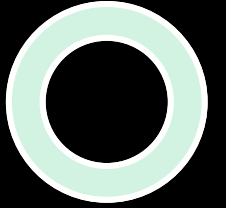
### ■ JSON Parsing

- Moshi/Gson for serialization
- Data classes for API models

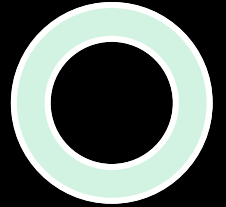
## Local Storage

### ■ 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



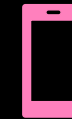
## **Task List Management**

View, update, and delete tasks in an organized list



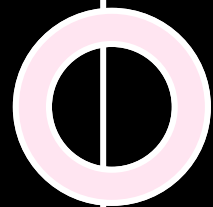
## **Scheduling & Notifications**

Set reminders and receive timely notifications

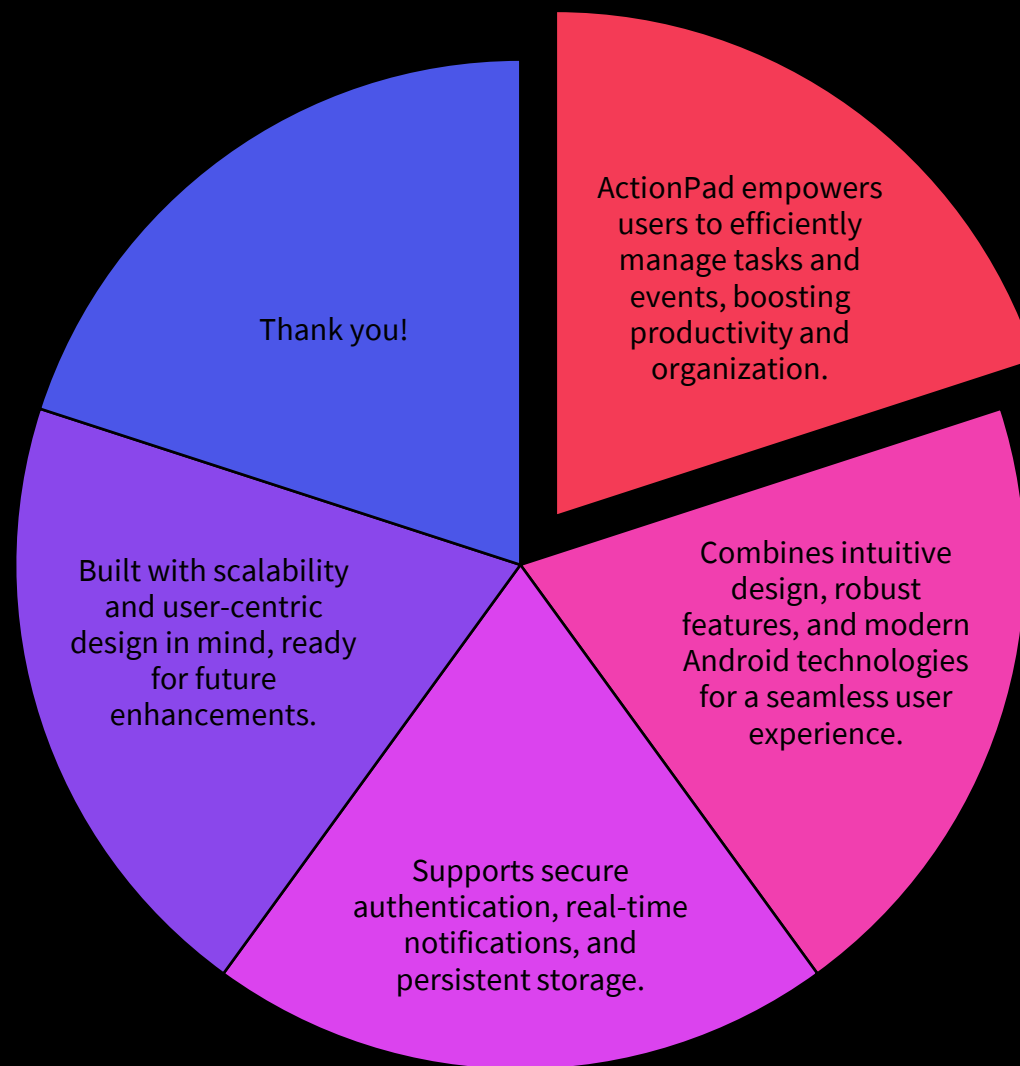


## **Seamless Navigation**

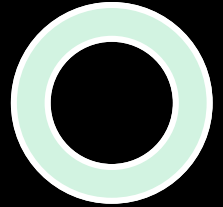
Intuitive interface with smooth transitions



# Conclusion



# Team Appstronauts



TEAM LEAD – Shantanu Khare – 23BRS1301

NAME	REG NO	BATCH	BRANCH	YEAR
Chirag MV Gowda	22BCE0279	BATCH 1	CSE CORE	3 <sup>RD</sup> YEAR
Shantanu Khare	23BRS1301	BATCH 1	CSE AIR	2 <sup>ND</sup> YEAR
Mannepalli Balaji	23BCE9832	BATCH 1	CSE CORE	2 <sup>nd</sup> YEAR
Tarlana Vikas	23BCE7267	BATCH 1	CSE CORE	2 <sup>ND</sup> YEAR
J S Abhinav	23BCE7615	BATCH 1	CSE CORE	2 <sup>nd</sup> YEAR
Kandukuru Ramchandra	23BCE7269	BATCH 1	CSE CORE	2 <sup>nd</sup> YEAR





# CONTRIBUTION

Name	Contribution Area
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

