

Android Diary App - Project Roadmap

Phase 0: Planning & Prototyping

- Define Entry Format (e.g., date, type, name, notes)
- Choose JSON structure and yearly file organization
- Sketch App UI (paper, Figma, etc.)
- Decide on Feature Scope (core vs. optional)

Phase 1: Setup the Development Environment

- Install Android Studio
- Set up new project with Java (Empty Activity)
- Create project structure: MainActivity.java, Entry.java, utility classes, layout XMLs

Phase 2: Entry Data Handling

- Design Entry class with required fields
- Implement file storage per year (create/read/write JSON files)
- Use Gson or Jackson for JSON serialization/deserialization

Phase 3: Basic UI

- Main Screen: RecyclerView to list entries
- Add Entry Screen: input fields, save button
- Navigation between screens

Phase 4: Search & Filtering

- Implement search by type or name
- Optional: filter by date or type using dropdowns or chips

Phase 5: Extras & Polish

- Handle edge cases in file reading/writing
- Polish UI with Material Design and themes
- Test different user interactions and entry types

Phase 6: Stretch Features (Optional)

- Allow editing/deleting entries
- Add export/backup functionality
- Switch to SQLite if data volume grows significantly