

Caseflow Management - Project Report

Submitted by:

- Modalavalasa Chaitanya – Reg. No: 12212610
- Vikram Simha Reddy – Reg. No: 12212639

B.Tech CSE, Lovely Professional University

Academic Year: 2024-2025

Project Overview

The Android Caseflow Management application is designed to manage legal or business cases efficiently. This SDK-based project ensures streamlined workflows and organized data handling.

Core Components & Architecture

- Authentication System:
 - Custom AuthManager class
 - SharedPreferences for data persistence
 - Login/Logout functionality
 - User session and registration management
- Data Models:
 - Case data model
 - GSON for JSON handling
- UI Components:
 - Activities (Login, Main), RecyclerView
 - Material Design components, dialogs

Key Features & Concepts

- User Management:
 - Email/password authentication, secure sessions
 - Persistent login, SharedPreferences
- Case Management:
 - CRUD operations
 - Priority levels (High, Medium, Low), status tracking

- • Case filtering & organization
- UI/UX Features:
 - • Material Design, responsive layouts
 - • Pull-to-refresh, FAB, CardView, Toasts

Android Concepts Used

Activity lifecycle, RecyclerView with ViewHolder, Adapters, Menus, Dialogs, Scroll listeners, Material Components (CardView, Buttons, AlertDialogs, Chips, TextInputs, etc.), and Navigation Flow.