# HUMAN RESOURCE MANAGEMENT (HRM) APP

MAD (Mobile Application Development) - Final Project Report

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## Abstract

Human Resource Management (HRM) is a core part of every organization, as it deals   
with employee data handling, performance monitoring, and administrative tasks.   
This project presents a mobile-based HRM application developed using Flutter and   
Hive Database. The application allows the administrator to add, view, update, and   
delete employee records through a clean and user-friendly interface.  
  
The system works entirely offline using Hive for local storage, making it suitable   
for small organizations or environments where internet availability is limited.   
The aim of the project is to design a simplified HR management tool that is efficient,   
lightweight, and easy to use.

## 1. Introduction

Managing employees manually can become time-consuming and error-prone. Traditional HR   
systems are often desktop-based or overly complex. Therefore, a mobile-based solution   
helps HR representatives and administrators manage employee information efficiently   
anywhere and anytime.  
  
This project focuses on developing a mobile-specific HRM system using Flutter, designed   
with a simple and intuitive interface that supports essential HR functionalities. Hive   
is chosen for data storage due to its lightweight nature and fast read/write performance.

## 2. Problem Statement

Organizations often rely on scattered documents, Excel sheets, or handwritten registers   
to maintain employee records. This leads to inefficiency and data redundancy. There is a   
clear need for a simple and reliable mobile-based system to manage employee information.

## 3. Objectives

- To provide an easy way to add and manage employee information  
- To offer clean and responsive UI design for mobile users  
- To allow offline functionality using local database (Hive)  
- To support CRUD operations for employee management

## 4. Tools & Technologies Used

- Frontend Framework: Flutter (Dart)  
- Database: Hive Local Database  
- IDE Used: Visual Studio Code  
- Platform Targeted: Android Mobile

## 5. Data Model Design

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| name | String | Employee Name |
| email | String | Employee Email |
| phone | String | Contact Number |
| designation | String | Job Role |
| salary | double | Monthly Salary |

## 6. Conclusion

The HRM Mobile Application successfully achieves its goal of simplifying employee data   
management. It offers an easy-to-use mobile interface, smooth navigation, and offline   
capability through Hive. The project demonstrates practical implementation of Flutter   
and serves as an efficient solution for small to medium-scale HR needs.  
  
  
  
  
  
  
