# Project: MediAid – Smart Medicine Reminder App

# Phase 1: Problem Understanding & Industry Analysis

## 1. Problem Statement

Medication adherence is a major challenge, especially for elderly patients, those with chronic illnesses, and people on multiple prescriptions. Missing doses can reduce treatment effectiveness and cause health complications.  
  
Currently, most patients rely on manual methods (alarms, paper notes, memory), which often leads to:  
• Missed or incorrect medicine intake  
• Lack of monitoring by caregivers/doctors  
• No central tracking of medicine history  
• Difficulty managing multiple prescriptions  
  
Need: A simple, user-friendly digital solution to remind patients about medicines, notify caregivers, and maintain a history of adherence.

## 2. Objectives

The MediAid system aims to:  
1. Provide automated reminders for medicine intake.  
2. Enable prescription entry (manual upload or doctor’s input).  
3. Notify caregivers/family members if doses are missed.  
4. Generate reports for doctors on patient adherence.  
5. Support multi-language UI for accessibility.

## 3. Stakeholder Analysis

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| Stakeholder | Role in System |
| Patient | Adds prescriptions, receives reminders, tracks intake |
| Caregiver/Family | Monitors patient adherence, gets alerts for missed doses |
| Doctor | Uploads prescriptions, reviews adherence reports |
| Pharmacy | Provides refill alerts and medicine stock info |
| Admin | Manages users, system roles, and settings |

## 4. Business Process Mapping

Current Process (Manual):  
1. Doctor prescribes medicines → patient writes them down or remembers.  
2. Patient relies on memory/alarms.  
3. Caregivers have no visibility on whether medicines were taken.  
  
Proposed Process (MediAid):  
1. Patient/doctor enters prescription into the app.  
2. App generates medicine reminder schedule.  
3. Patient receives timely reminders via mobile notifications/SMS.  
4. Caregiver is notified if patient misses doses.  
5. Reports are stored and shared with doctor/family.

## 5. Industry-Specific Use Case Analysis

Healthcare Industry Challenge: Medication non-adherence leads to treatment failures, hospital readmissions, and increased healthcare costs.  
  
Use Case Example:  
• A diabetic patient enters prescription into MediAid.  
• App sends reminders at exact times.  
• If the patient misses the dose, the caregiver gets an alert.  
• Doctor reviews weekly adherence reports and adjusts treatment accordingly.

## 6. AppExchange Exploration

As part of industry analysis, Salesforce AppExchange was reviewed to identify similar apps.  
  
Findings:  
• Multiple healthcare-related apps exist (e.g., patient engagement, appointment scheduling, hospital management).  
• Very few apps specifically target personalized medicine reminders and real-time caregiver alerts.  
• Most existing apps are generic healthcare management solutions.  
  
Conclusion:  
MediAid can fill this market gap by focusing on medicine adherence, family involvement, and simple usability, making it unique and highly valuable.

## 7. Expected Outcomes

• Improved medicine adherence among patients.  
• Reduced chances of missed or incorrect doses.  
• Better caregiver and doctor monitoring.  
• Enhanced patient safety and treatment effectiveness.  
• Contribution to digital health adoption.