

Internship at
CAREDOSE-MedTech Startup, Delhi

By

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INTRODUCTION:

CAREDOSE is a technology & product ecosystem for both patients & healthcare entities that helps ensure, automatically track & optimise patient care. A simple and cost-effective system to help ensure and automatically track medicine adherence in Chronic patients (in real-time), whilst creating big data for private and public health entities.

GOALS OF INTERNSHIP:

- To understand the ecosystem of corporate setting.
- To gain insight about the overall functioning of organization
- To gain understanding and assistance in day-to-day operations.
- To gain practical knowledge and skills to handle managerial issues.
- To assist in carrying out different projects.
- To learn the existing culture and acquiring soft skills.

SERVICES PROVIDED BY THE ORGANIZATION:

Medicine adherence is a behavioural problem for patients that impacts both patients and caregivers. There is a need for an automated system that is convenient for multi-dose prescriptions and doesn't require any input from patients. Additionally, a comprehensive system that allows every stakeholder across the supply chain to not only communicate efficiently but also optimise their tasks and services.

The technology provides various components:

A. For patients:

1. Smart Dispenser

Multi-dose packaging: Medicines are delivered pre-organised & labelled by dose, in a portable dispenser (Image A, 1). Each pouch contains all the medicines needed by that patient in one dose (Image A,2). This ensures that the patient always takes the right medicines at the right time, without any errors or confusion.



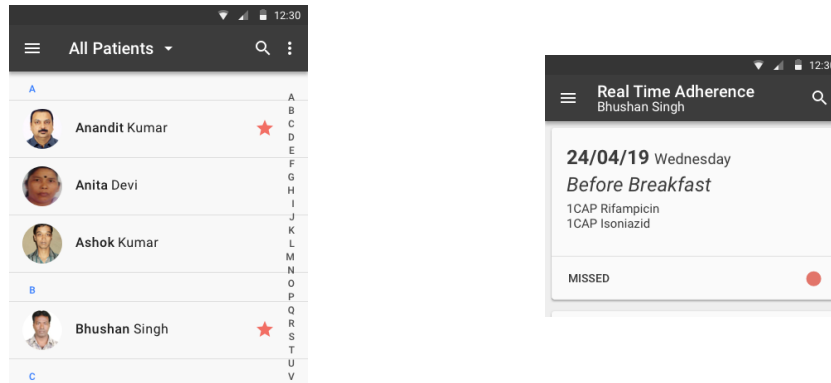
Image A,1



Image A,2

User friendly labelling: The labels are available in various vernaculars (Image A,3). This allows patients to read medicine names and dosage directions with ease and therefore leads to faster adoption

Smart dispensing & tracking: The dispenser (Image A,4) dispenses the relevant dose automatically and alerts the patient (light & sound) to take the dose. It also automatically tracks when the patient does or does not take the dose, in real-time



Data sharing: This data is automatically shared in real-time, without any effort by the patient, with the appointed caregivers. This allows relevant actions to be taken and optimises resource management. These alerts and screens can be integrated with existing systems, platforms & APPs

B. For patients: Automated Reminders

Dose reminder alerts: Patient is reminded to take each dose via SMS, call or APP alert (Image B, 1). The open APIs allow CAREDOSE to integrate with existing APPs and route alerts through them.

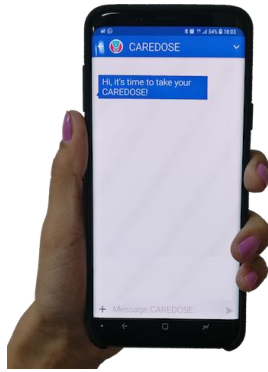
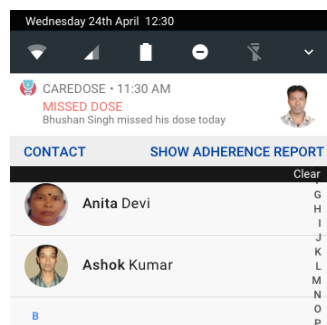


IMAGE: B,1

Negative adherence alert: It is essential to know when the patient has not taken their required medicine. If patient doesn't take the dose (tracked by Smart dispenser), an alert is triggered (Image B,2) to selected caregivers or doctors

IMAGE: B,2



C. For patients: Refills

Refills are managed automatically for each patient so that they are delivered on time, every time, in cartridges that easily fit into the dispenser (Image C)

IMAGE: C



D. For patients: Awareness & education

Lack of knowledge about medication and importance of adherence are major reasons for patients discontinuing their medication. Space on the refills along with SMS alerts and other initiatives are used to carry out simple, interactive and informative campaigns.

E. For Health Facilities: E-Prescription service

Once the patient's prescription image is shared on the CAREDOSE system, it is digitised and made into an E-Prescription. This data is collected and saved as an electronic health record

F. For Health Facilities: Automated patient wise multi-dose dispensing (DoseDroid)

Dispensing: DoseDroid (Image F) is an automated multi-dose dispensing robot that cuts medicine strips (while retaining manufacturer's packaging), sorts, packages and labels each patient's medicines according to prescribed doses.

Tracking: DoseDroid tracks manufacturer information along with exact location of each pill in the pouches for complete traceability

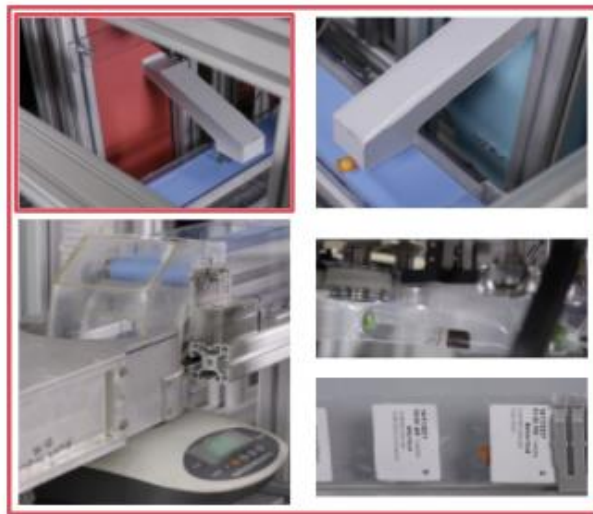


IMAGE: F

G. For Health Facilities: Softwares & Dashboards

Public and Private Health facilities will be able to track the journey of a pill from its purchase to consumption (in real time) via various modules of the CAREDOSE ecosystem. Softwares and dashboards (Image G) tailored to the needs of Public and Private Health Facility caregivers will enable:

- smoother process management
- more efficient supply chain management
- improved inventory stocking
- improved patient care
- real time patient adherence tracking
- actionable data driven insights for more efficient care delivery

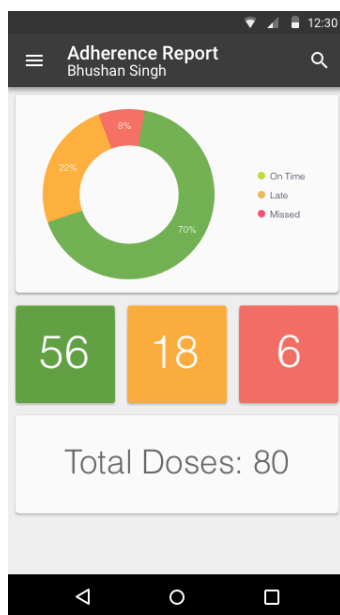


IMAGE: G

As highlighted above, CAREDOSE is a comprehensive ecosystem for tackling medicine non-adherence. It is completely customisable and can be integrated with existing platforms/ APPs that the Health Facilities are using