



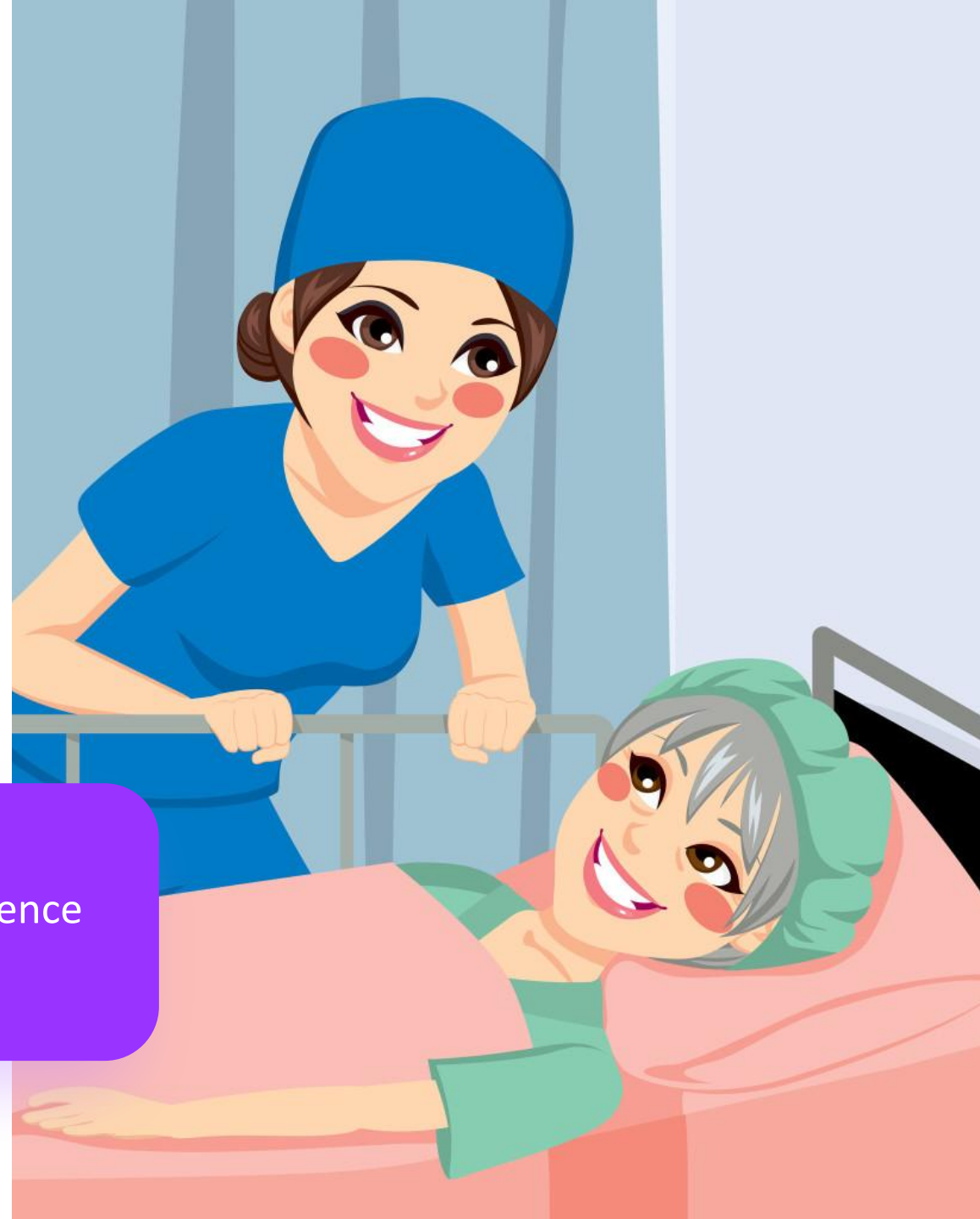
Dockey

Problem Statement

“Postoperative complications increase
patient morbidity and mortality”



% of surgery patients experience
postoperative complications





Our Solution

“Voice operated, intelligent, reliable
assistant monitoring and tracking your
health.”

Our Core Features

Scheduling Appointments

So that no one misses any of important visits to the doctor.

01

02

Prescription Reminders

So that everyone takes medicines on time, refill before it's empty

03

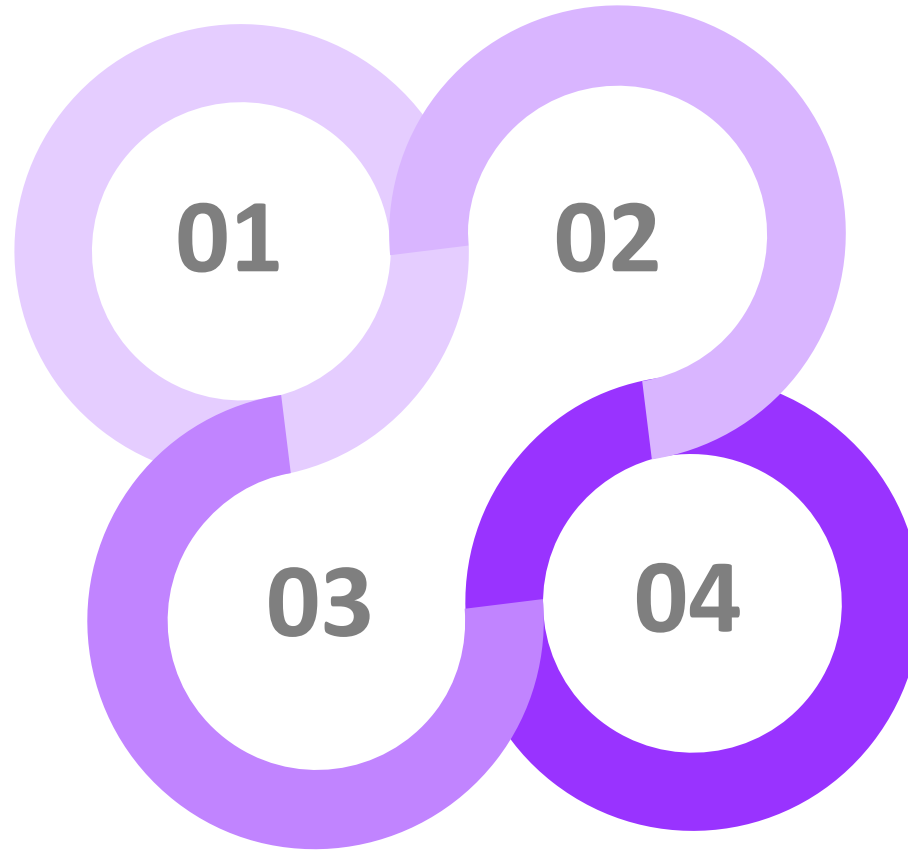
04

Surgery specific FAQs

So that patients double check every activity they do

Health Monitoring

Our way to ensure patients recover soon

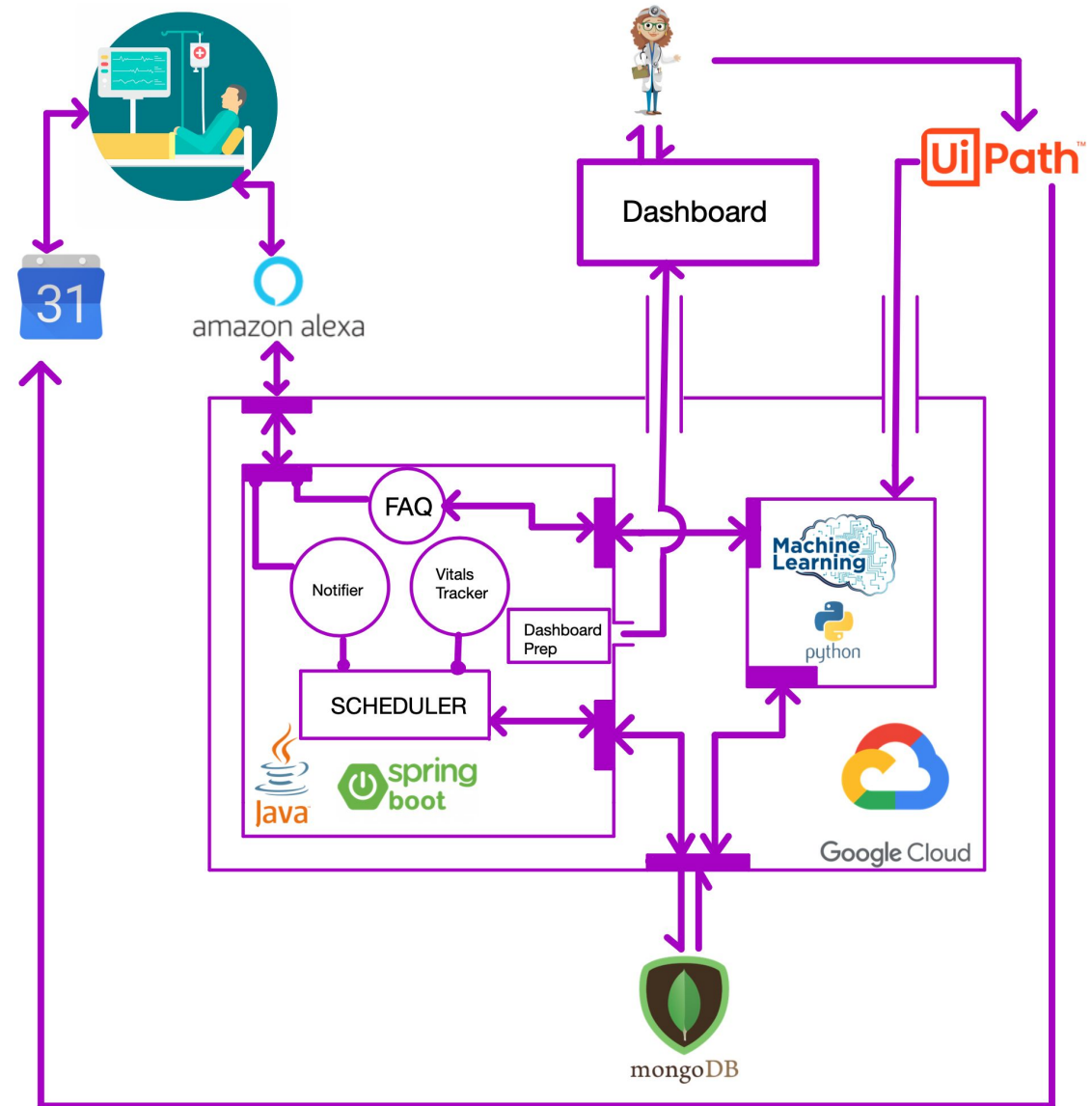
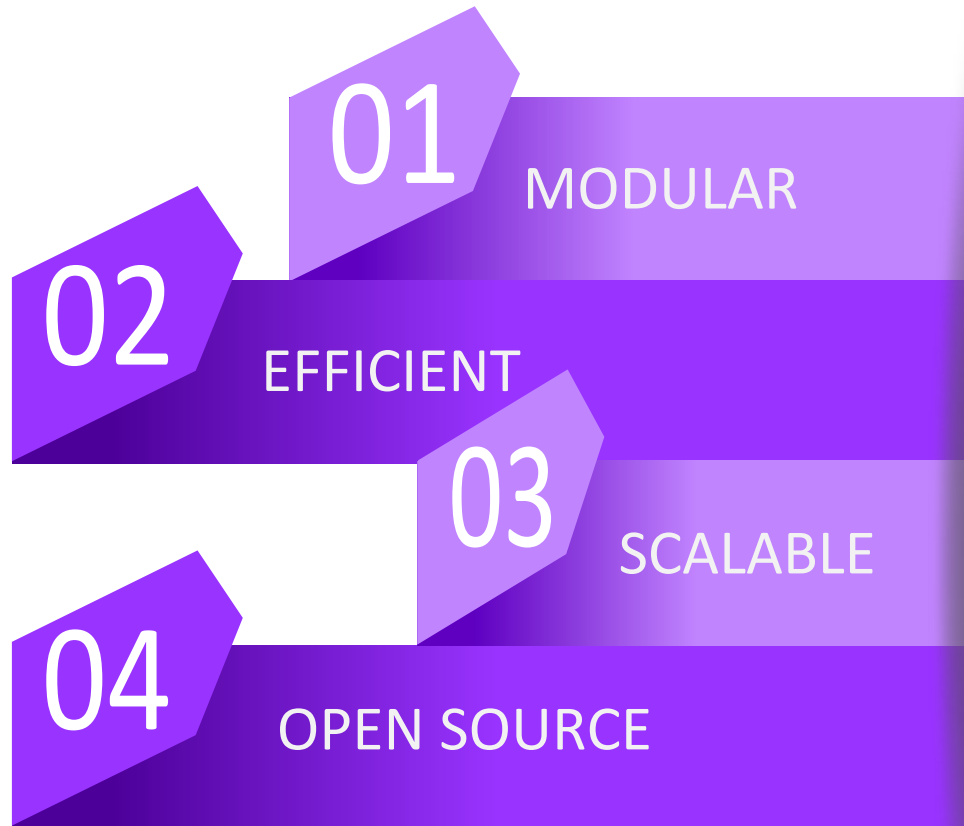


Technical Features

Dockey provides several features that uses Machine Learning, Natural Language Processing, Cloud Computing for scalability, accuracy, and reliability.



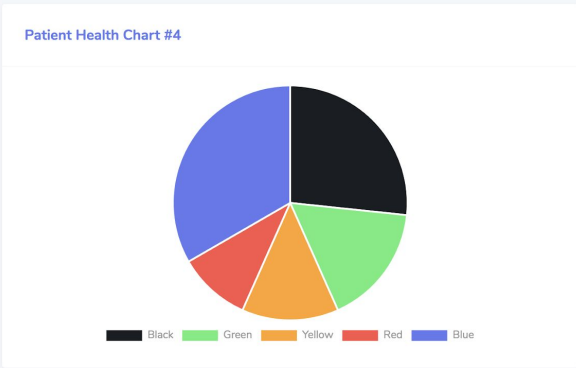
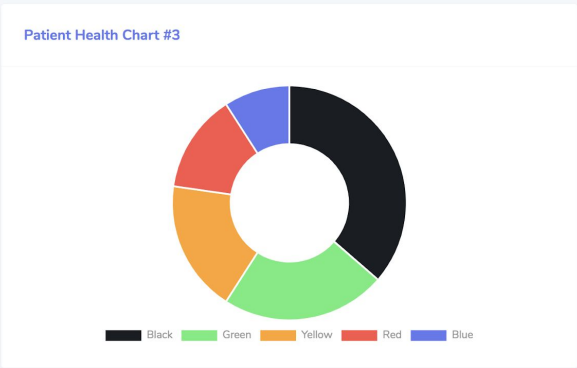
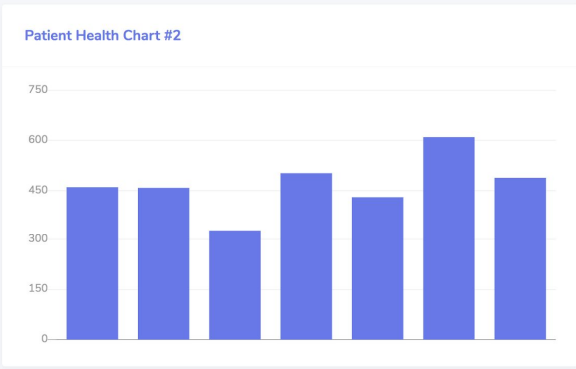
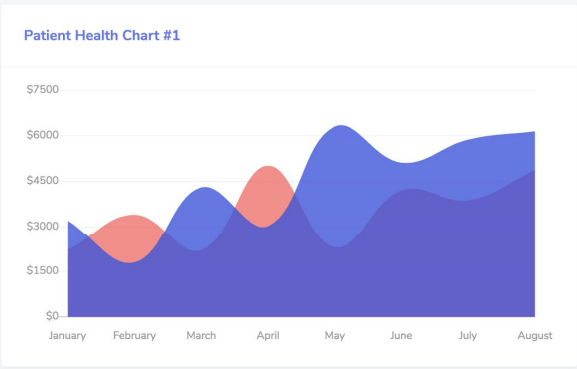
System Architecture



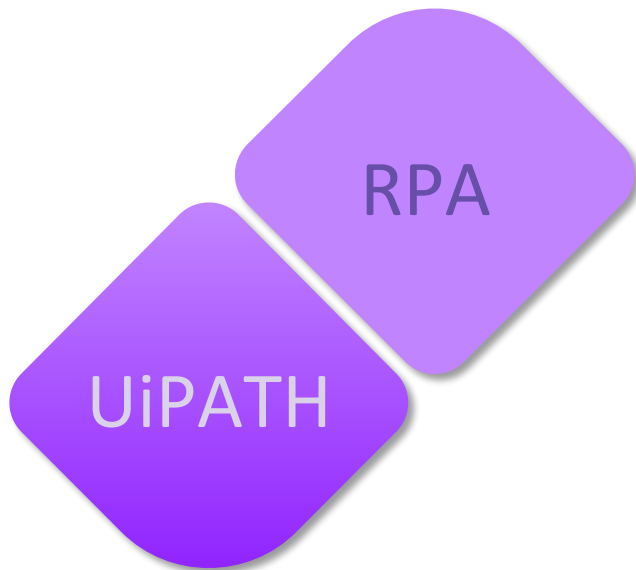


Upload additional instructions

Drop files here to upload



Automatic Follow-up Appointments, Instructions & Reminders



WED 18 THU 19 FRI 20 SAT 21

1 reminder done

Appendectomy follow-up # 2
10am, Dr. John M Smith

Appendectomy follow-up # 2
Saturday, September 21 · 10:00 – 11:00am

Dr. John M Smith

Follow-up appointment #2
14 days after operation
Duration: 30 minutes
Please arrive 30 minutes before appointment
time for a brief physical exam

30 minutes before

Ria Maheshwari

busy, 2:30pm



**Dockey aims at
reducing
postoperative
complications in a
convenient and
easy manner**

RISKS

20%
ABSCESS
FORMATION

14%
WOUND
INFECTIONS

7%
BOWEL
OBSTRUCTION

Our Impact

Assistive care and tracking preemptively reduces the odds of these risks by providing accurate and detailed instructions for patients and caretakers for when they leave a doctor's care by **65%***

*<https://www.ncbi.nlm.nih.gov/pmc>

Our Target Audience

Patients

280K

APPENDECTOMY PATIENTS - NCBI

Doctors

65K

JUNIOR SURGEONS - NYTIMES

Insurance Companies

6000

2017 - NAIC, III





System Cost

\$50

Google Home Mini*

\$55

Amazon Echo Dot*

OPERATIONS

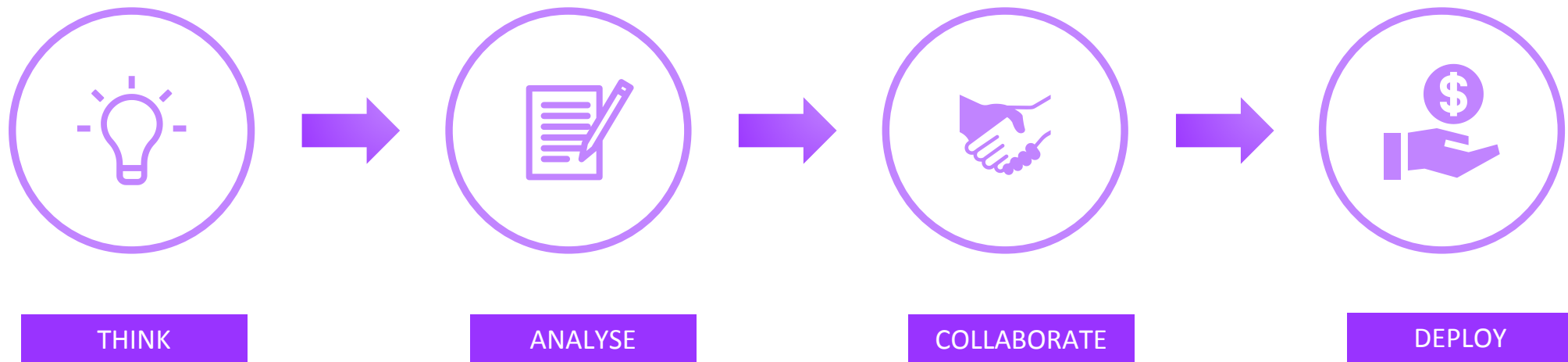


\$0.006/hr

Google Cloud Platform

Formation of the Idea

“The point is consuming conflicting ideas helps us see a bigger picture, expand our viewpoint, and trigger our own take on the subject.”



How the future looks like?

“Any sufficiently advanced technology is equivalent to magic.”



Dockey will be a platform enabling developers to write similar programs and making the world a better place.

An open-source community contributing to and maintaining Dockey.

An assistive healthcare system for all kinds of surgeries, pre-op care, rehab, hospice and pregnancy



Contact Us

Harshal, Vivek, Shunqi & Ria

Master of Information Systems Management

Carnegie Mellon University



Thank You