# Interactive Technologies Exploratory Project

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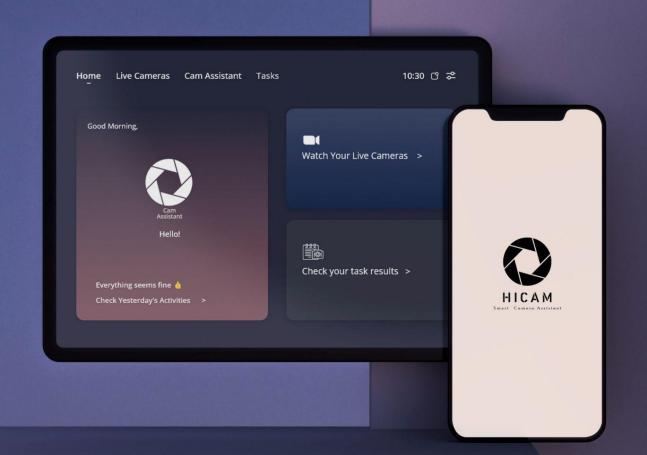
# <Problem Statement>

It is challenging to constantly monitor/inspect CCTV views or assign a task of inspecting something to someone.









# OHICAM

There would be no more challenges in monitoring your CCTV pictures.HiCAM will do everything for you.A smart camera assistant.







## **/SOFTWARE FEATURES**





/SMART CAMERAS,
Speakers & Cam
Assistant



**/WATCH** 

your live cameras instantly



/ASSIGN

task to your Cam Assistant and ask questions



/SEE

and talk with your visitors outside.





## **/WORKING**











#### /RECORD

**Smart Cameras** record the visuals

#### /LOCAL **STORAGE**

The data is stored in the the storage device

#### /CLOUD **STORAGE**

The data is send to the cloud and temporarily stored.

#### /PROCESSING

The data is analyzed by the algorithms and stored

















#### /UNDERSTANDS /USER

The data needed is stored

User gives voice commands

#### **/UNDERSTANDS**

Understands the intents and checks for the answers in the cloud data

#### /ANSWERS

The answers found are told to the user with visuals







# /SMART CAMERA

- > Wireless Camera
- > WiFi connectivity
- > Direct Data transmission to cloud
- Speaker and microphone variant
  for front door









# **/STORAGE**

- > Cloud storage in AWS
   (Amazon Web Service)
- > Stored visual data
  temporarily for 30 days
- > Stores analyzed and other data
   of the user









# /PROCESSING

- > Alexa API
  AWS Rekognition
- Algorithms to connect cameras,cloud and application.











## /USER

The user is able to use the software and ask information from the visuals, assign tasks and be notified, find out things lost in the house and even can connect the camera to vehicles and get asked visuals and information.

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## /TECHNOLOGY ROADMAP

> /GET CLOUD SERVICE > /GET ALEXA API /PUT OTHER
> REQUIRED
ALGORITHMS

- > /CREATE THE SMART CAMERAS
- > /CREATE THE APPLICATION

> /CONNECT THE ALL TOGETHER









<<u>WIREFRAME</u>>







#### $\equiv$

## /RISK ASSESSMENTS



#### /DATA

Huge data storage and flow



#### **/PROCESSING**

Huge data and lots of objects



#### **/CONNECTING**

Different algorithms and API









<<u>WIREFRAME</u>>







Home Live Cameras Cam Assistant Tasks 10:30 🖒 🕏





Loft

Living

Study

Locker Room

Kitchen

① Add new camera

