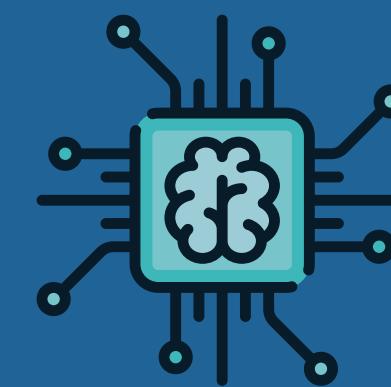




Hajj Health Tracker

Remote pilgrims monitoring



01

Intelligence COM

Who Are We

We are a team of 3 skilled professionals with 28 years of combined experience. Ahmed have 18 years of experience in project management and digital marketing.

Muneera is a Senior Analyst & a programmer with 7 years of experience.

Touseeq is a senior mobile App developer with 3 years experience.



startup 2020

HARAM & MINA PROJECTS EXPERIENCE

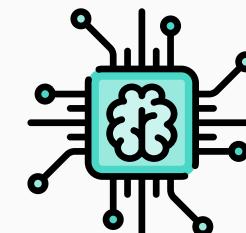
HealthCare Pain Points

keep it controlled

Our solution will address the following pain points :

SYNCOPE, HEAT STROKE

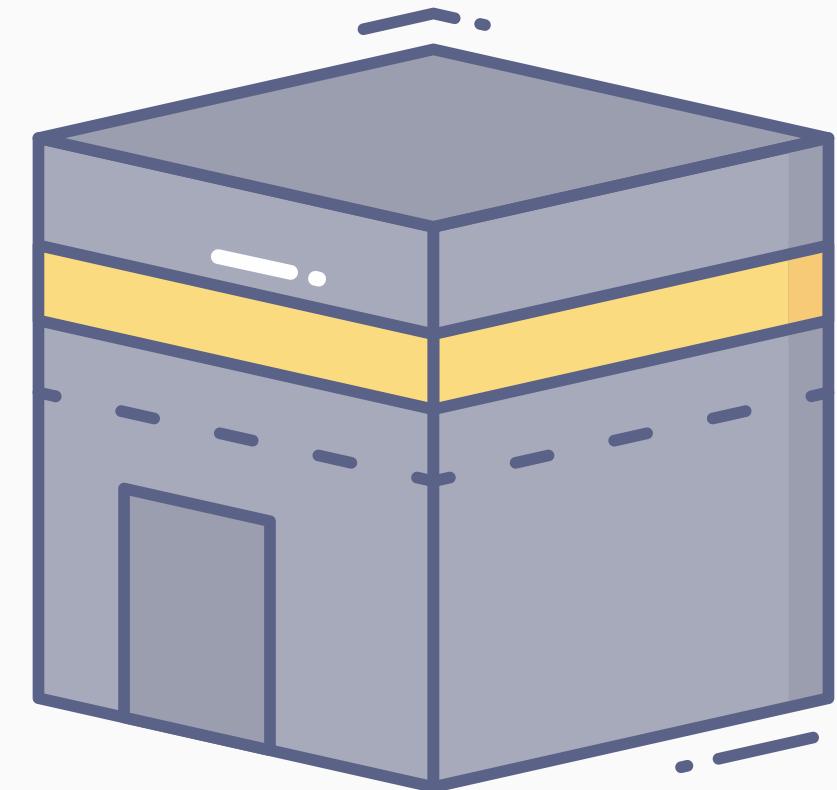
1) Health monitoring & control on-site



2) Mitigation of heat related health issues



Our team understand the KSA culture and Hajj project priorities as per our experience with SBG & Mina Tent project. Our solution is designed with potability in mind.

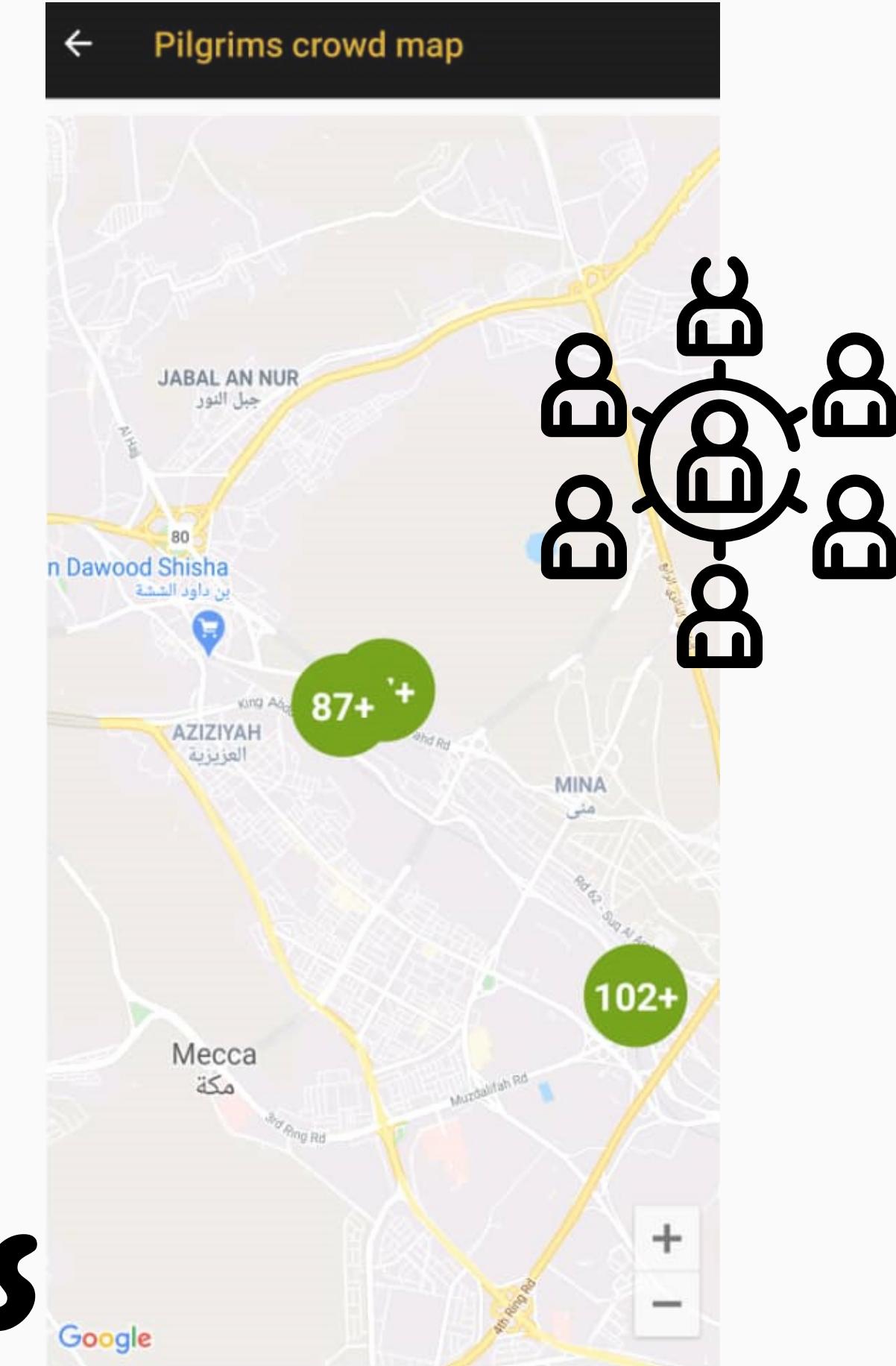


Crowd Management [secondary]

There are 2 ways that we plan to use to create pilgrims crowd maps, one doesn't need additional hardware but will only reflect the crowd situation every 3 or 4 hours in open areas.

The second method will depend on installing cameras on specific locations to count pilgrims entry / exit using AI

Live Cameras
USING AI FOR COUNTING PILGRIMS



Solution Components

- 1) Medical grade bracelets (FDA registered) that can measure health vital signs and uses bluetooth.
- 2) A Mobile App that is automatically set to retrieve pilgrims health information using bluetooth and send the collected data to the backend web-server.
- 3) Backend dashboard for monitoring all the pilgrims health status.
- 4) AI Models, smart glass and live cameras [second stage]

SCAN & RECORD VITAL HEALTH SIGNS

REAL TIME PILGRIMS HEALTH MONITORING

App shows Early warning scores



medical grade bands



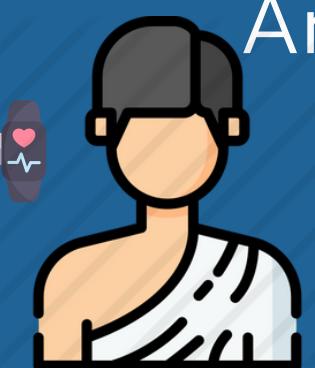
Pilgrims monitored by Camps supervisors



Web Server

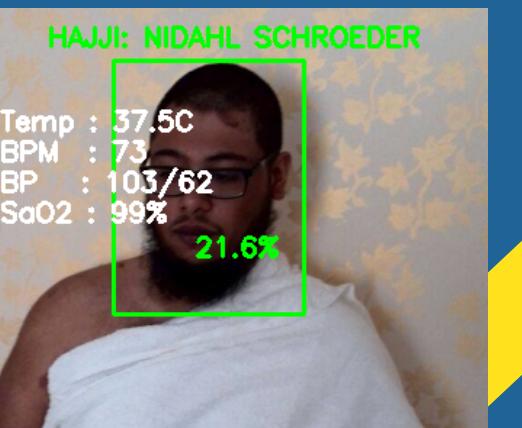


Android App



Remote pilgrims Monitoring

Facial pilgrims
detection



Monitor Heat strokes, fever,
fainting pilgrims

MASJID AL-HARAM

CAN MONITOR MILLIONS

HAJJ & UMRA

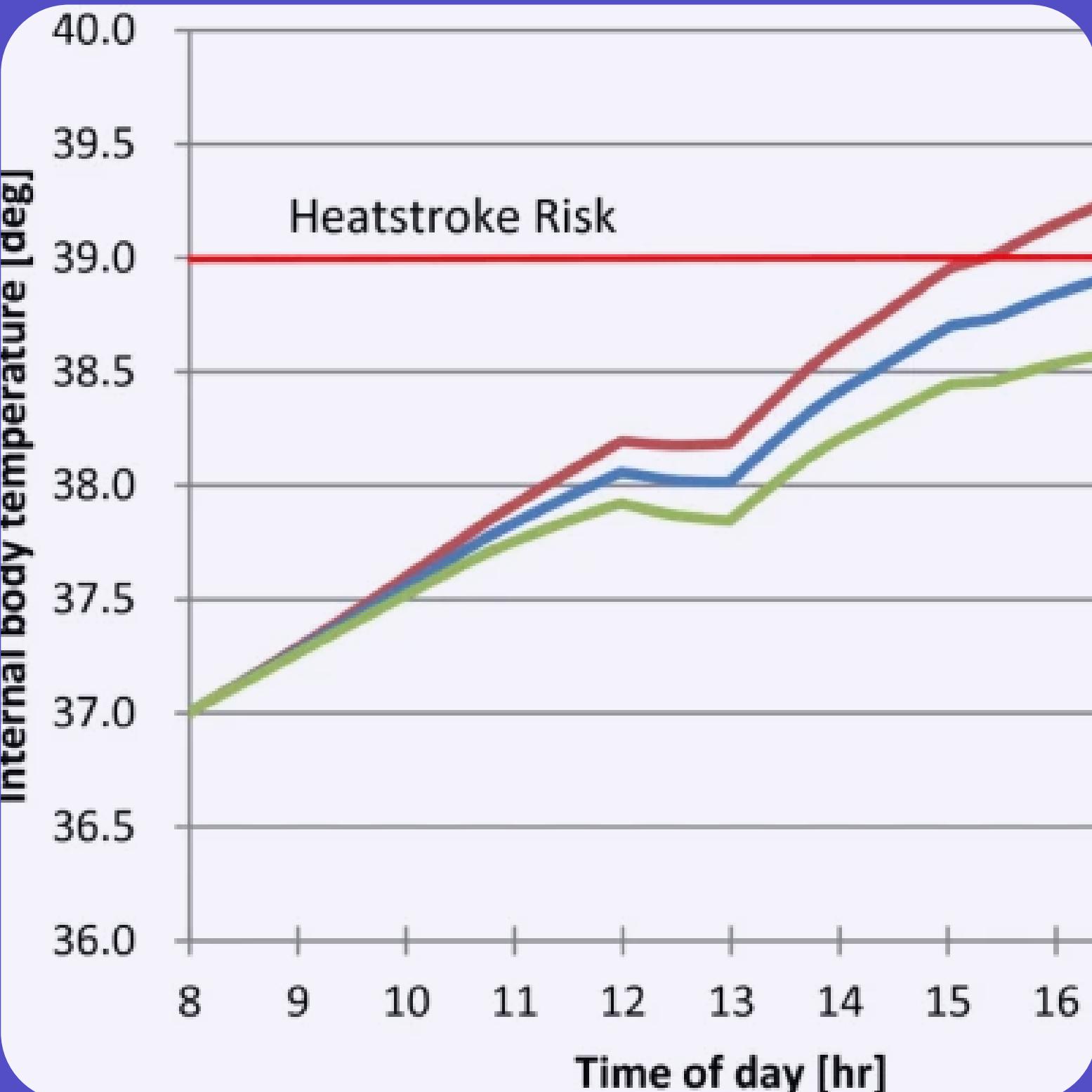
Detecting Heat Stroke

Heatstroke is a condition caused by your body overheating, as a result of prolonged exposure to or physical exertion in high temperatures.

This most serious form of heatstroke, can occur if your body temperature rises to 40 C or higher.

According to research reports the risk of heat stroke increase when both heart rate and body temperature increases and we are able to monitor both and alert pilgrims accordingly.

By knowing the time & location where most heat strokes occur, heat mitigation can be implemented.



SECOND STAGE

SHOW HEALTHCARE INFORMATION FACIAL RECOGNITION FOR PILGRIMS



Nidahl images used
to train the AI
models



Visual Health monitor without close contact with
pilgrims to protect both guards & hajj health team

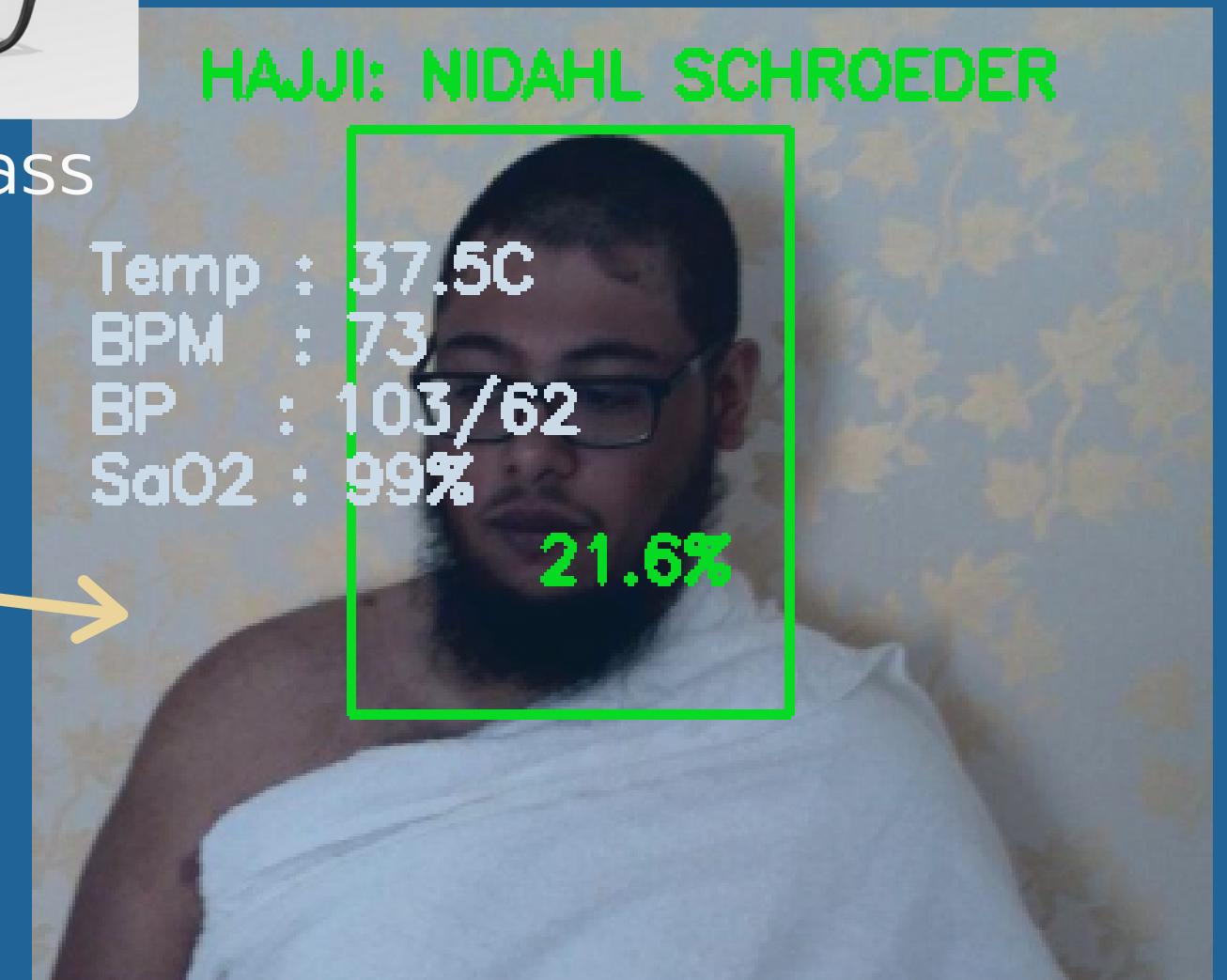
AI DEEP LEARNING



Web Server storing
health information



Smart Glass



What guards see in their smart
camera
mounted display

FOR COVID PRECAUTIONS

SOCIAL DISTANCING MONITORING

Initial Tests

Using live cameras social distancing can be monitored and violations can be reported to the authorities.



AI CAN RECORD VIOLATIONS

MASJID AL-HARAM

THIRD STAGE

COUNTING PILGRIMS

CREATE CROWD DENSITY MAPS

Initial Tests

using camera in strategic locations, pilgrims presence can be counted in real time.



USING CAMERAS & AI
DEEP LEARNING

Appendix

01

FAQ

02

Syncope Detection

03

Pilgrim Facial detections

FAQ

1 -What if the pilgrim doesn't wear the bracelet ?

We can detect this and report his name to hajj supervisors

2 - Your solution will be costly compared to other solutions

? It is possible but our main advantage is portability that and our solution doesn't need a lot of fixed installations in all the hajj related areas which makes the maintenance costs over the years very low. Our solution won't block or interfere with other solutions in place. Our solution will allow us to analyse pilgrims health data to predict health issues and prepare prevention measures every year.

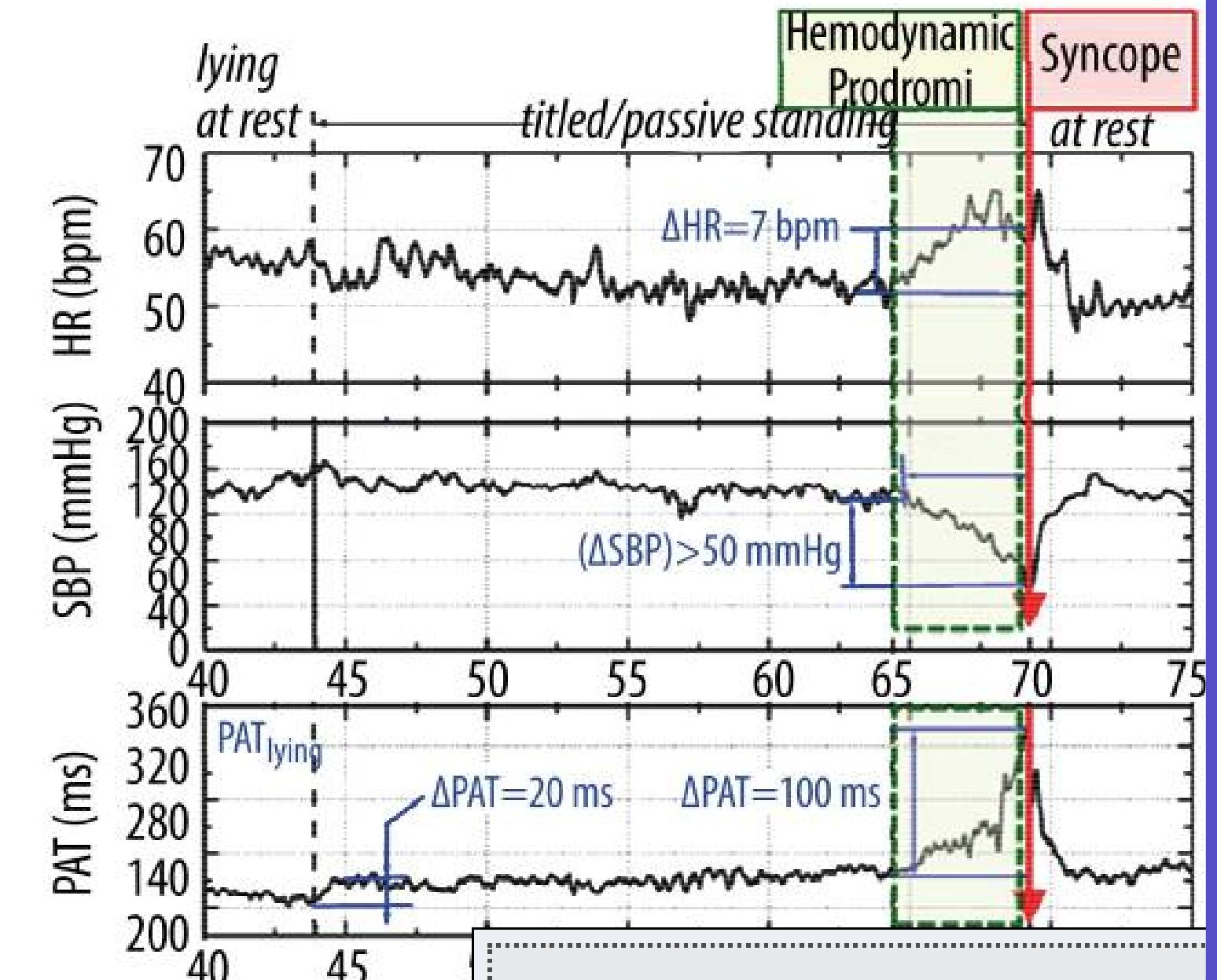
2 - How many apps is needed to scan millions of pilgrims ?

For Every hajj campaign between 4 to 6 installations

Syncope Detection

Syncope is a temporary loss of consciousness usually related to insufficient blood flow to the brain. It's also called fainting or "passing out." It most often occurs when blood pressure is too low (hypotension) and the heart doesn't pump enough oxygen to the brain.

Our medical grade bracelet can easily detect heart rate and blood pressure measurements



SHOW HEALTHCARE INFORMATION

FACIAL RECOGNITION FOR PILGRIMS

Walid images used
to train
the AI models



Web Server storing
health information

Recognition without close contact

AI DEEP LEARNING

Close monitor for pilgrims health around the clock



What guards see in their PHMD

SHOW HEALTHCARE INFORMATION FACIAL RECOGNITION FOR PILGRIMS



Shady images used
to train
the AI models



Recognition without close contact

AI DEEP LEARNING

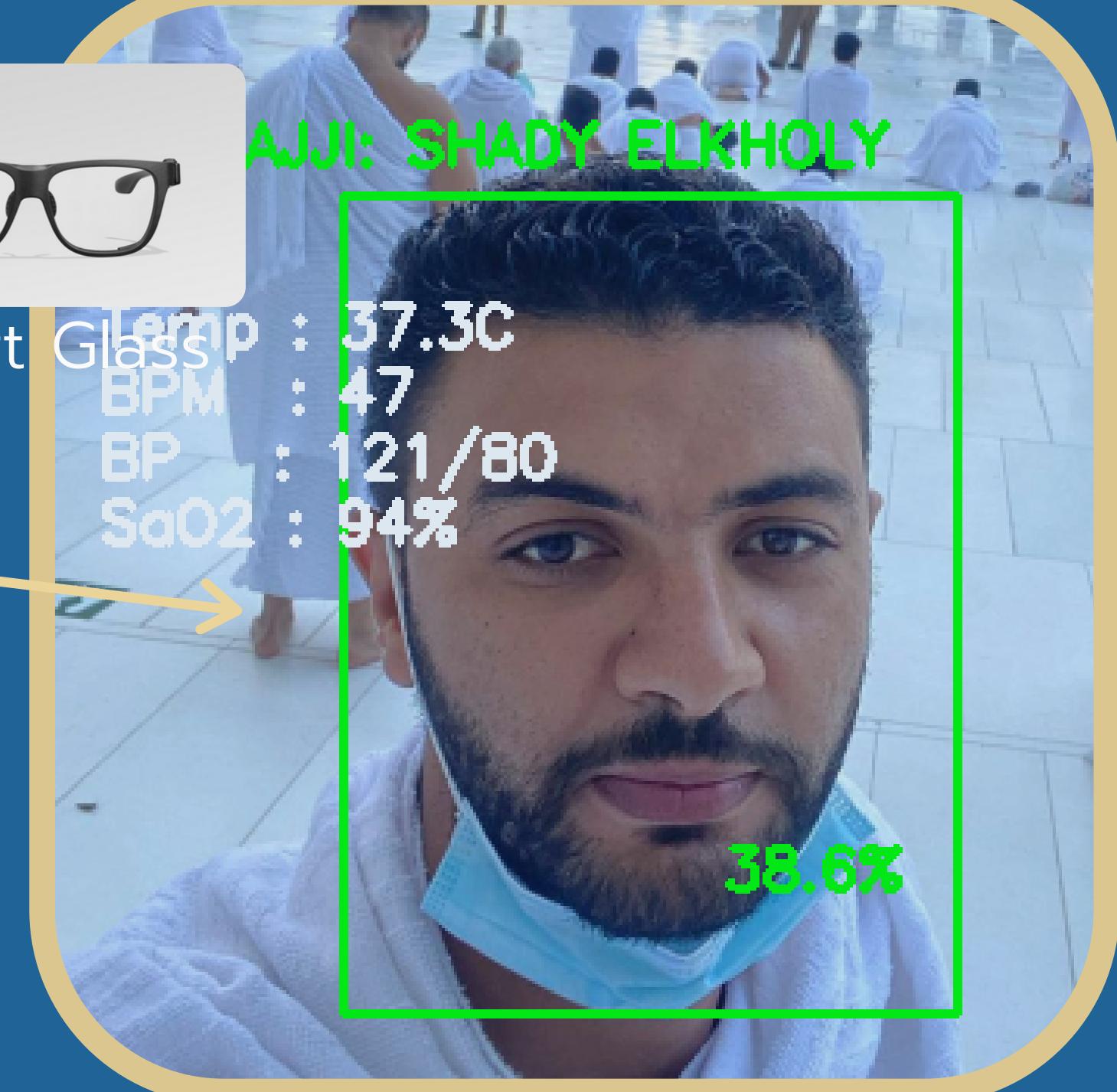
Close monitor for pilgrims health around the clock



Web Server storing
health information



Smart Glass
Temp : 37.3C
BPM : 47
BP : 121/80
SaO2 : 94%



What guards see in their PHMD

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Trust US & We Won't let you down