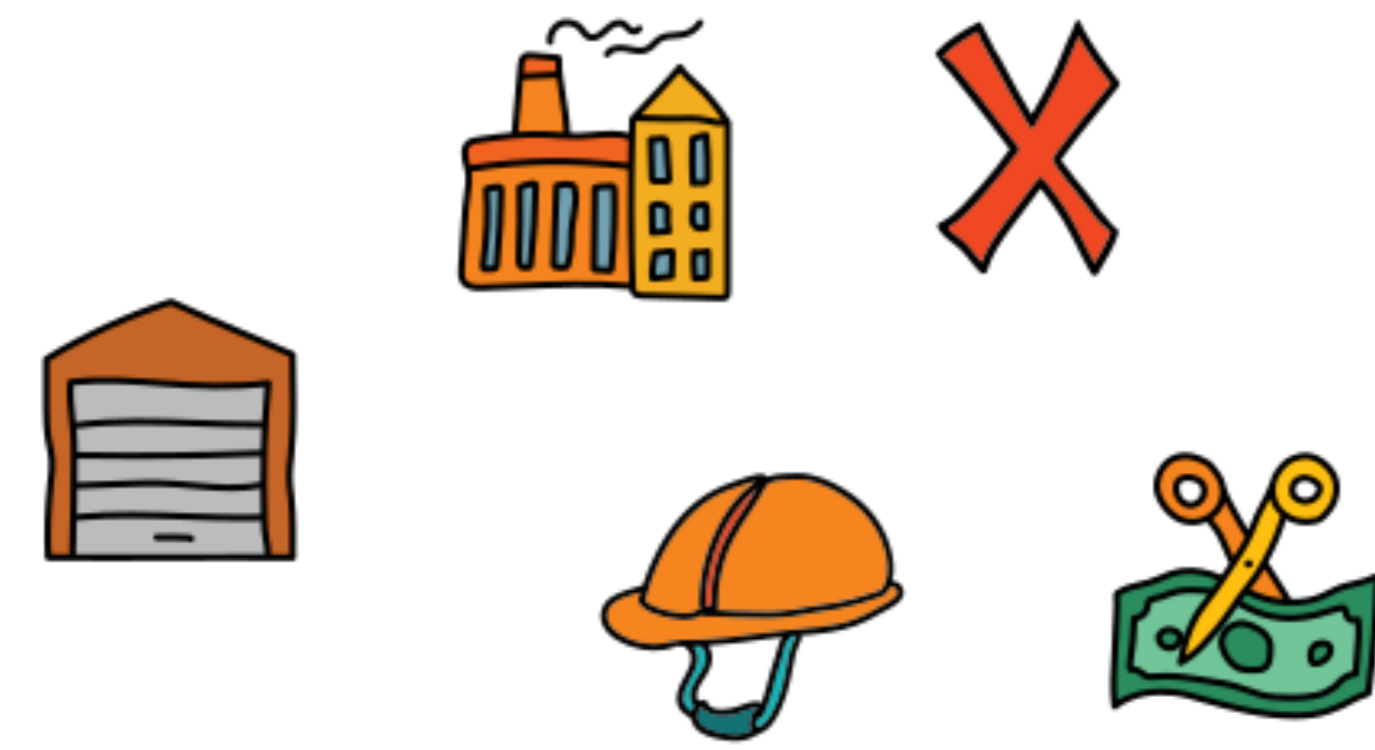


COVID-19 DESIGN CHALLENGE
#WORK RESUMPTION

1. THE CONTEXT

ALL MANUFACTURING ACTIVITIES ARE AT HALT ALL ACROSS THE GLOBE DUE TO THE COVID 19 PANDEMIC. RELIANCE ON INFRASTRUCTURE RULES OUT WORKING FROM HOME POSSIBILITIES.

BLUE COLLAR, CONTRACT BASED WORKFORCE IS MOST AFFECTED DUE TO WAGE CUTS + JOB INSECURITY.



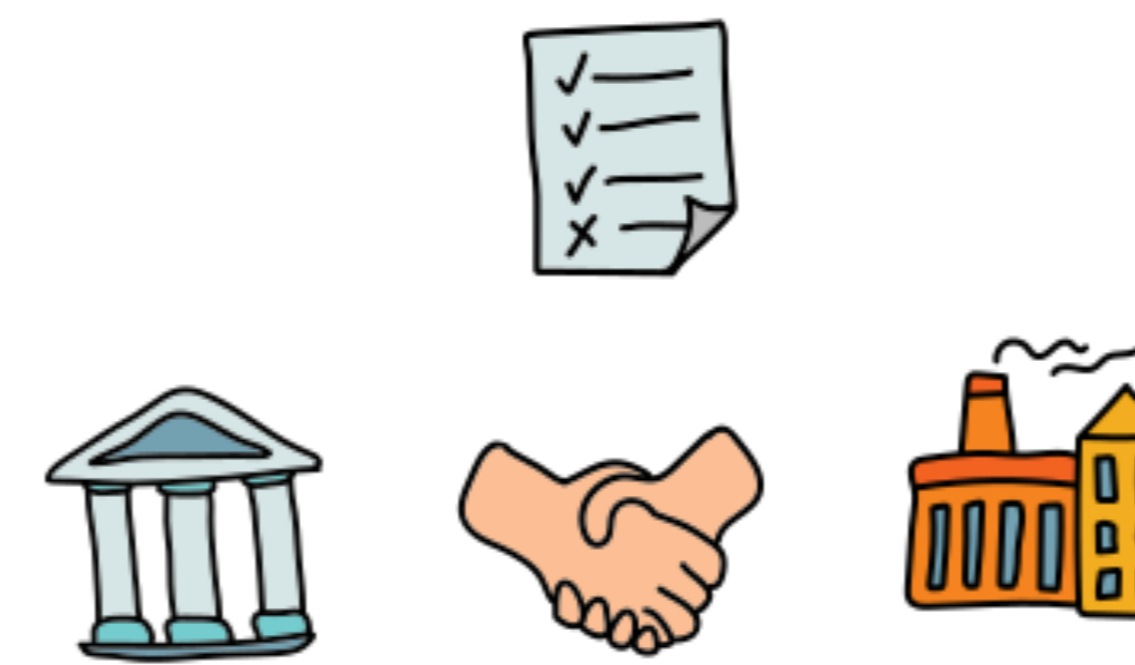
"HOW MIGHT WE HELP FACTORIES/PLANTS RESUME OPERATION DURING THE COVID-19 PANDEMIC TO HELP SUSTAIN EMPLOYEE LIVES?"

2. EXISTING SOLUTIONS

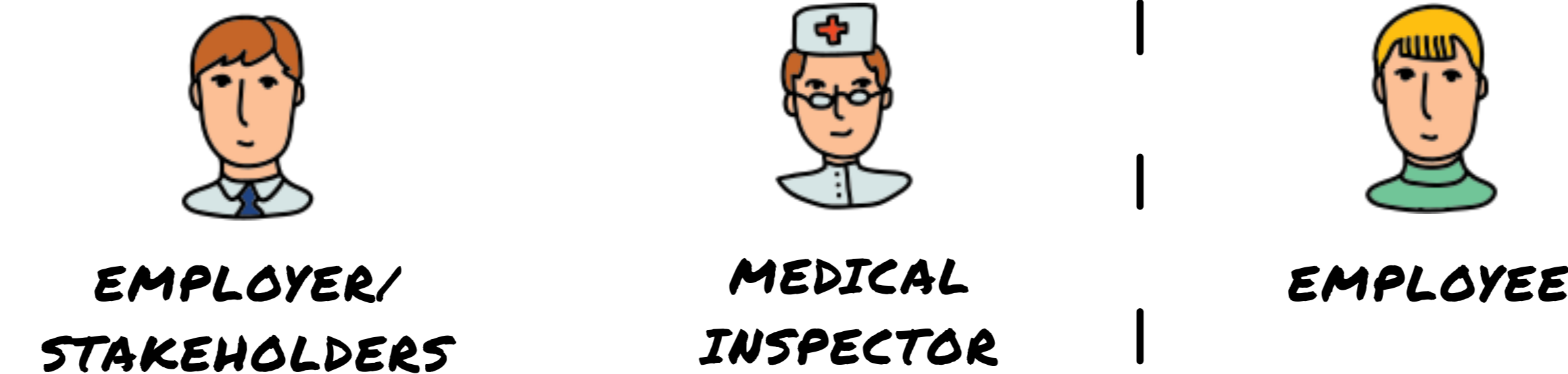
GOVERNMENT ALLOWS SPECIAL PERMISSION TO PLANTS/ FACTORIES TO OPERATE EVEN DURING A LOCKDOWN IF THEY MEET "PLANT OPENING PROTOCOLS".

WHAT ARE PLANT OPENING PROTOCOLS? (ROUGHLY)

- > PREMISE DISINFECTING
- > SOCIAL DISTANCING MEASURES
- > INCIDENCE MANAGEMENT RULES
- > HEALTH SCREENING
- > QUARANTINE PROTOCOLS



3. PRIMARY USER (S)



4. PAIN POINTS

- 1> LACK OF ACCOUNTABILITY, STANDARDIZATION
- 2> IMPLEMENTATION + MAINTAINENCE NEGLIGENCES //FIRST TIME FOR EVERYONE.
- 3> LACK OF ACTIONABLE FEEDBACK

5. SOLUTION OVERVIEW

THE SOLUTION IS THAT OF A DIGITAL PLATFORM TO HELP RESUME FUNCTIONING OF PLANTS/ FACTORIES EVEN DURING THE LOCKDOWN AND IMMEDIATELY AFTER



6. USER NEEDS MAPPING

1. FOLLOWING RE-OPENING PROTOCOLS

2. EMPLOYEE TRACKING + INCIDENT MANAGEMENT

3. MONITORING THE RISK OF OPERATION AND OUTBREAK



NEED TO **KNOW** HOW TO COMPLY TO PLANT RE-OPENING PROTOCOLS

NEED TO **DOCUMENT** THE MEASURES TAKEN TO DEMONSTRATE COMPLIANCE OF RE-OPENING PROTOCOLS

NEED TO GET THE MEASURES **REVIEWED** BY A MEDICAL INSPECTOR FOR RE-OPENING PERMIT

NEED TO **MAINTAIN** COMPLIANCE TO RE-OPENING PROTOCOL TO RENEW THE PERMIT

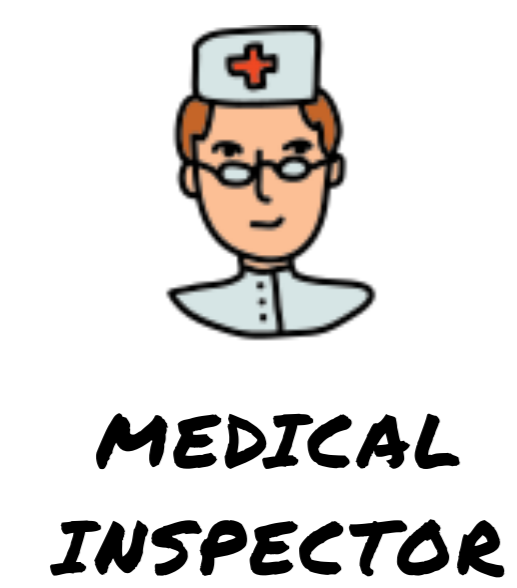
NEED TO **KNOW** THE STEPS TO CONFIRM WHEN AN EMPLOYEE IS SUSPECTED TO BE INFECTED

NEED TO **CONTACT** (HOSPITALS, LABS) AND AUTHORITIES TO INFORM IF AN EMPLOYEE IS INFECTED/ SUSPECTED

NEED TO **TAG + TRACK** THE INFECTED EMPLOYEE AND POSSIBLE PEOPLE IN CONTACT TO PREVENT THE SPREAD THE OUTBREAK

NEED A CLEAR PICTURE OF EMPLOYEE WELL-BEING UNDER THE OPERATION

NEED TO **EVALUATE** THE RISK INVOLVED IN CONTINUING TO OPERATE



NEED TO **INSPECT** COMPLIANCE TO RE-OPENING PROTOCOLS OF A PLANT TO OFFER IT A PERMIT

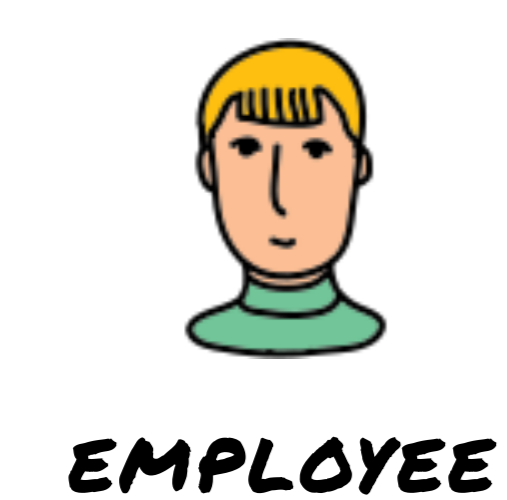
NEED TO **RE-EVALUATE** COMPLIANCE PERIODICALLY FOR PERMIT RENEWAL

NEED TO **KNOW** OF ANY INCIDENTS REGARDING INFECTED/ AT-RISK EMPLOYEES

NEED TO **HELP PROVIDE ACCESS** TO TESTING CENTRES, HOSPITALS, ETC. DURING AN INCIDENT

NEED A CLEAR PICTURE OF EMPLOYEE WELL-BEING UNDER THE OPERATION

NEED TO **EVALUATE** THE RISK INVOLVED IN CONTINUING TO OPERATE



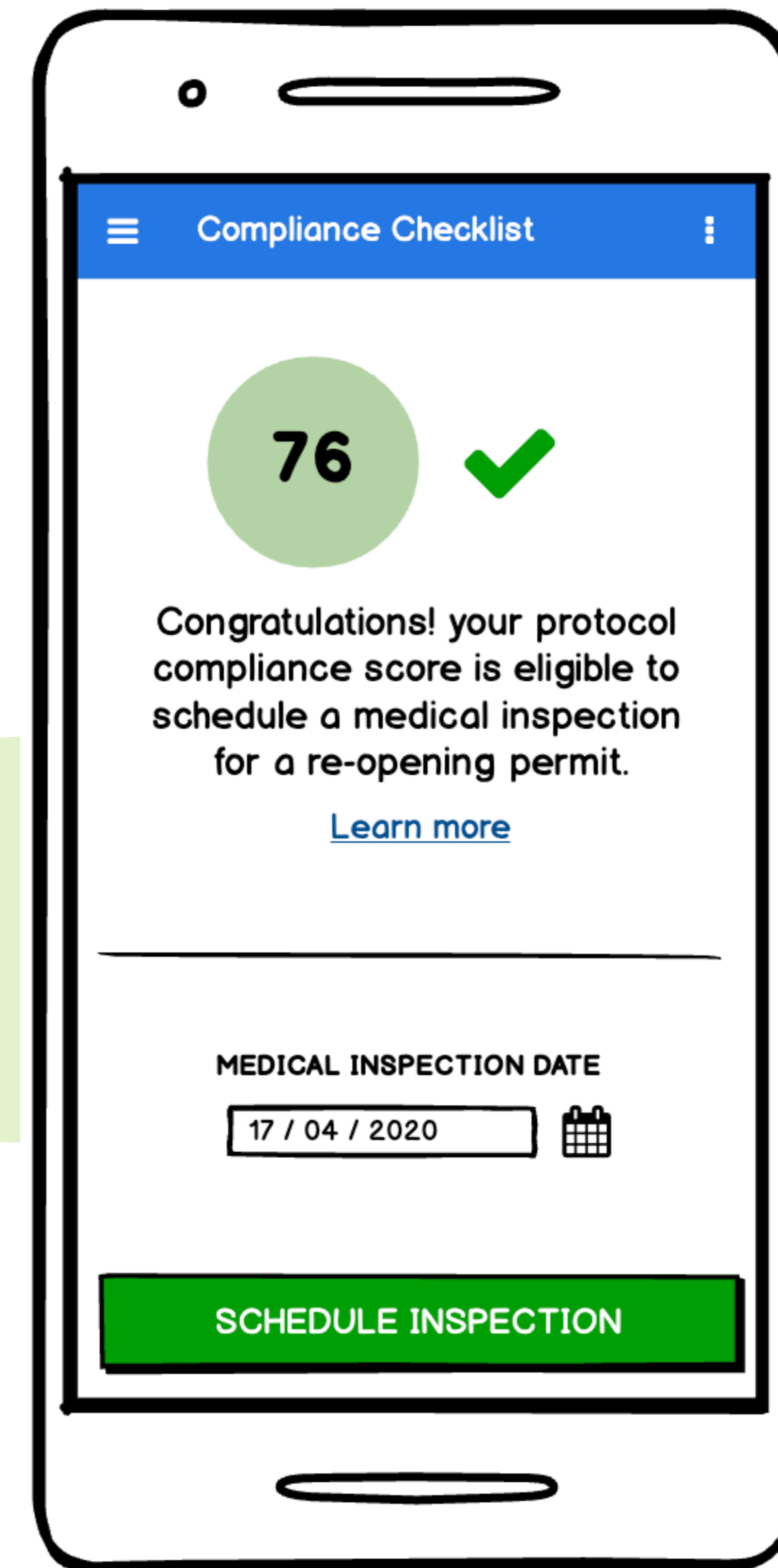
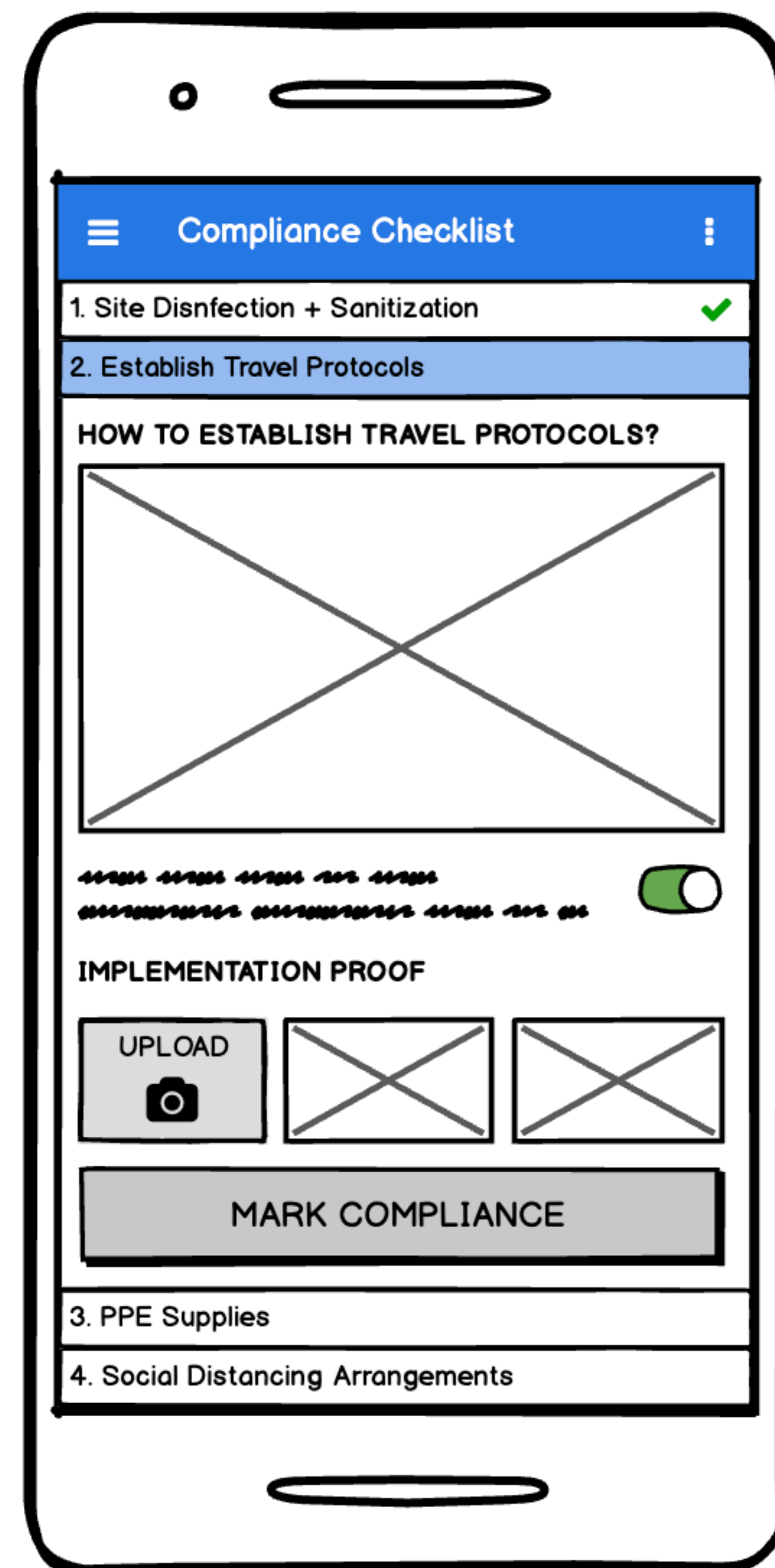
NEED TO **LOG** SELF EXAMINATION DATA LIKE TEMPERATURE, ETC. DAILY

NEED TO **LOG** TRAVEL HISTORY RELATED DATA

NEED TO **FEED IN** PERSONAL DETAILS TO HELP IN TRACKING AND MANAGEMENT IF AT-RISK

NEED TO **KNOW** WHETHER THE WORKPLACE IS SAFE TO OPERATE IN

1. FOLLOWING PLANT RE-OPENING PROTOCOLS + GETTING PERMIT



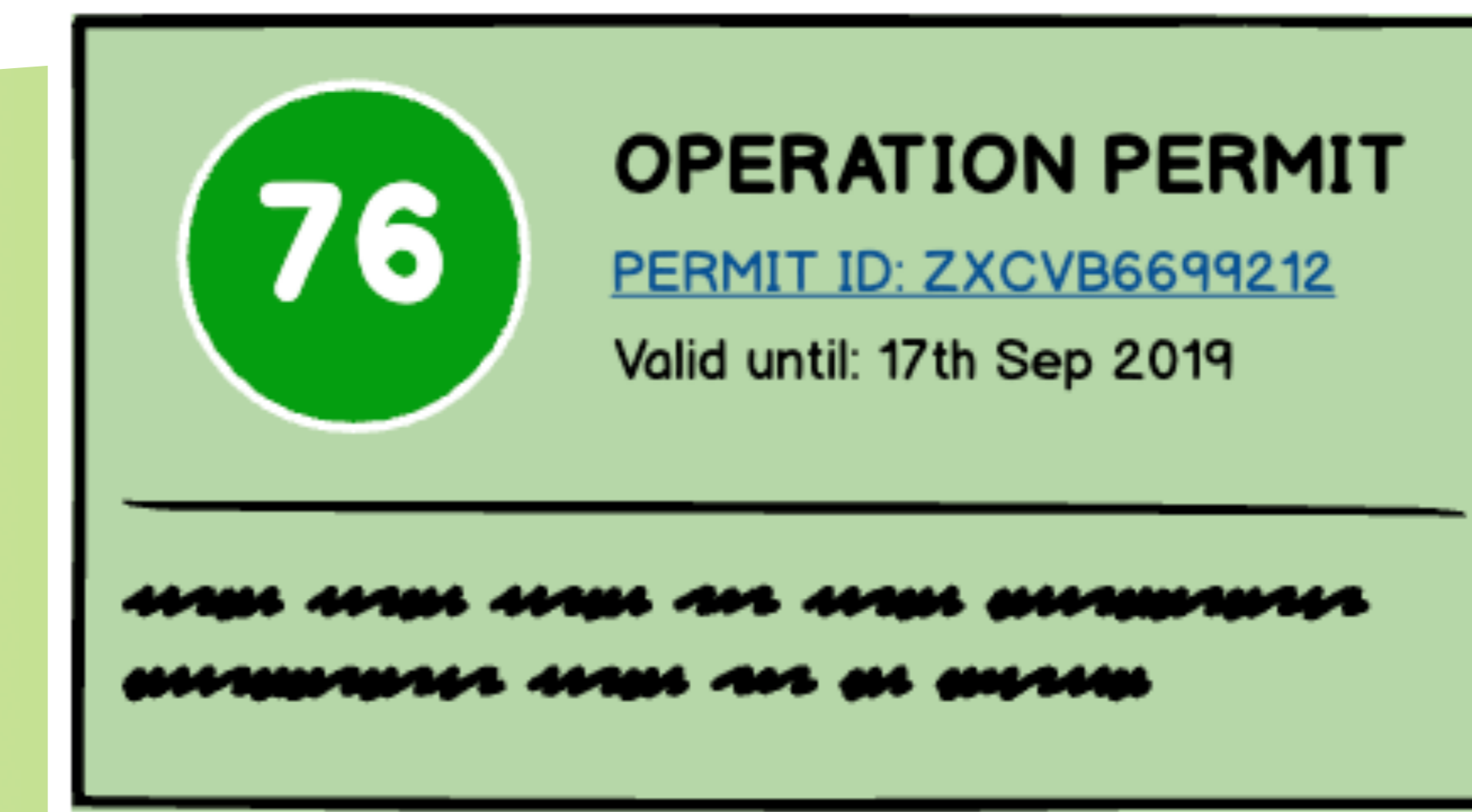
STEP-I
THE EMPLOYER OR BUSINESS STAKEHOLDER CAN START DOCUMENTING THEIR COMPLIANCE MEASURES FOR PLANT RE-OPENING PROTOCOLS. THE PLATFORM GUIDES THEM THROUGH SIMPLE CHECK-LISTS AND PHOTO DOCUMENTATION FOR EACH PROTOCOL TO CREATE A CASE.

STEP-II
ONCE THE CHECKLIST IS COMPLETED AND SUBMITTED, AN AGGREGATE SCORE IS GENERATED BASED ON THE COMPLIANCE MEASURES TAKEN. THE SCORE MUST MEET A MINIMUM VALUE TO SCHEDULE AN ON-SITE MEDICAL INSPECTION TO VALIDATE CLAIMS AND GET A RE-OPENING PERMIT.



**ONSITE
INSPECTION
+
CROSS
VERIFICATION

BY MEDICAL
INSPECTOR**



STEP-III
IF THE ONSITE INSPECTION IS SUCCESSFUL, CLAIMS ARE VERIFIED AND ALL PROTOCOLS ARE MET—THE PLANT IS GIVEN A OPERATION PERMIT THAT ENABLES THEM TO RESTART WORKING AS LONG AS PROTOCOLS ARE MET. THE VALIDITY IS LIMITED, AND NEEDS TO BE RENEWED WITH INSPECTIONS, PERIODICALLY.

**PLANT
OPERATIONS
RESUMED**

2.1 EMPLOYEE TRACKING + SELF SCREENING



EMPLOYEE

Employee Work Permit

Name

Select Employee ID

MEDICAL HISTORY

TRAVEL HISTORY

COUNTRY 17 / 04 / 2020

I agree to the [compliance protocol terms](#)

REQUEST WORK PERMIT

WORK PERMIT REQUEST

ALL EMPLOYEES WHO WILL RESUME WORK ONCE THE PLANT IS OPERATIONAL WILL HAVE TO;

- REQUEST FOR A WORK PERMIT
- BY PROVIDING ADDITIONAL MEDICAL AND TRAVEL RELATED HISTORY ABOUT THEMSELVES.
- AGREEING TO COMPLY TO THE PROTOCOLS.

Daily Temperature Tracker

APRIL 2020

S	M	T	W	T	F	S
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
36°C	37°C	35°C	37°C	37°C	37°C	36°C
26	27	28	29	30	1	2
37°C	37°C	36°C	35°C			
3	4	5	6	7	8	9

TEMPERATURE ON 30th APRIL 2020

37 °C °F

LOG TEMPERATURE

DAILY SELF EXAMINATION/ SCREENING BEFORE WORK

ALL EMPLOYEES MUST SELF SCREEN THEMSELVES FOR ANY SYMPTOMS AS WELL AS FEED BODY TEMPERATURE TO THE PLATFORM. IF SUSPECTED TO HAVE ANY SYMPTOMS, THEY MUST AVOID GOING TO WORK TILL CLEARED BY A DOCTOR.

2.2 INCIDENT MANAGEMENT



EMPLOYER/
INCIDENCE MANAGER

Employee Health Tracker

SELECT EMPLOYEE ID

ZXCVB0232ND

[View full profile + history](#)

MARK EMPLOYEE HEALTH STATUS

UNDER INVESTIGATION

INFECTED

✓ HIGH RISK OF CONTACT

LOW RISK OF CONTACT

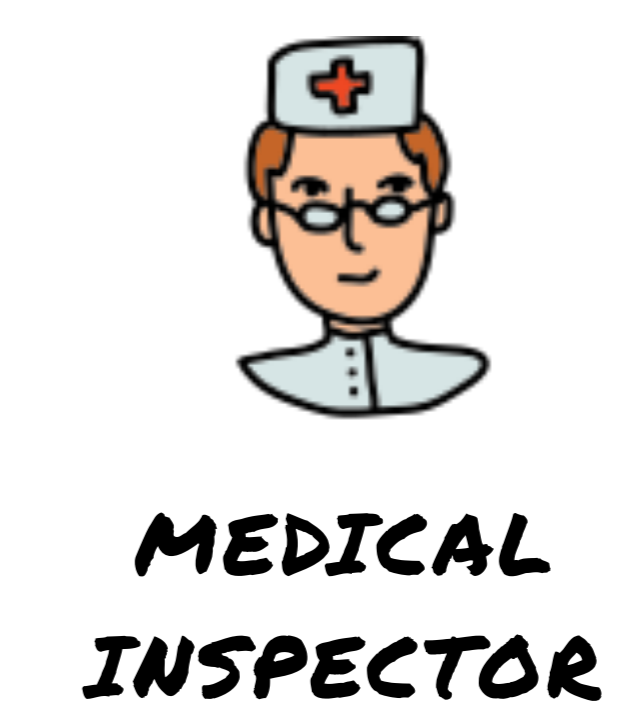
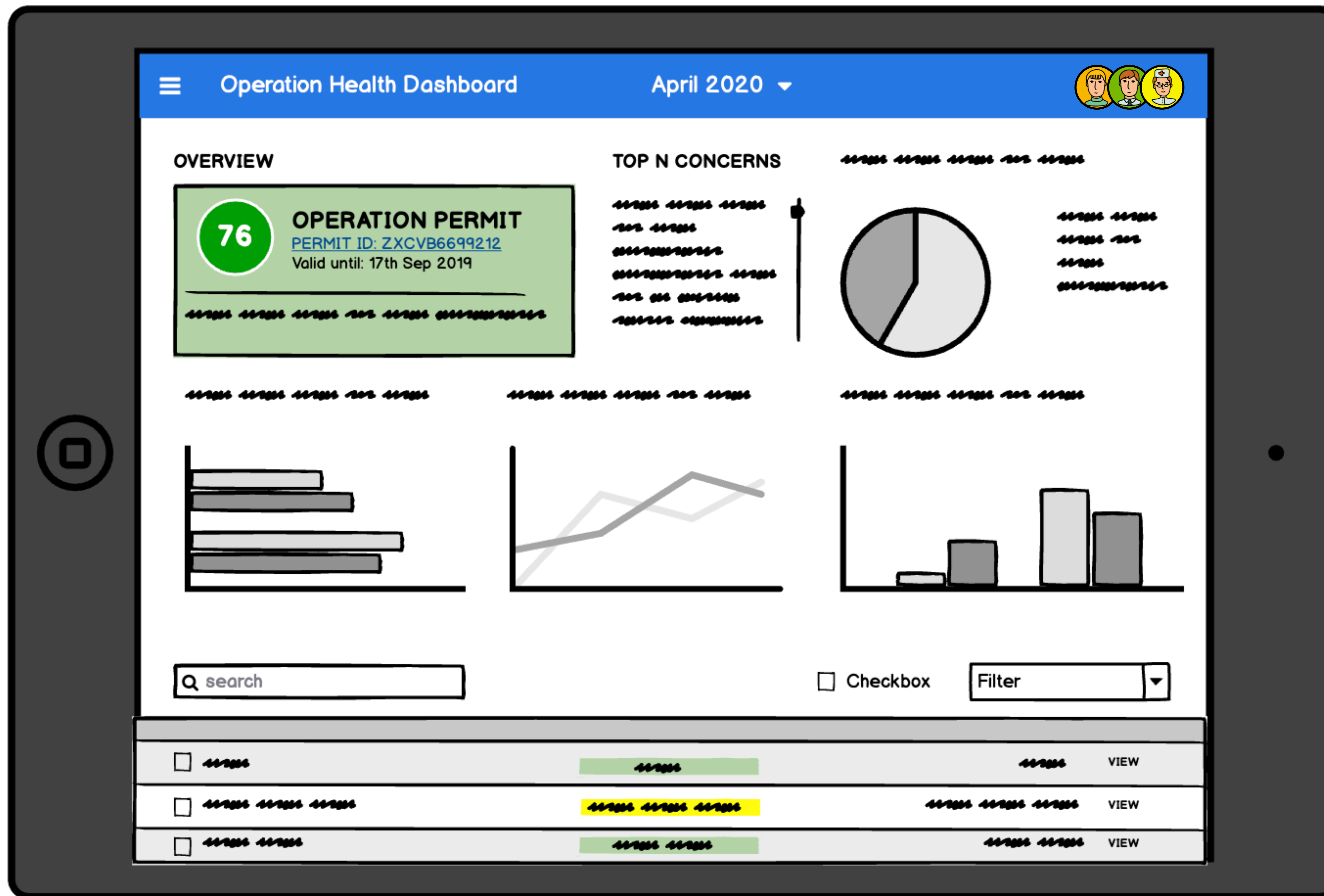
NEXT >

INCIDENCE MANAGEMENT

IN CASE OF AN INCIDENT OR SUSPECTED INCIDENT OF EMPLOYEE POSITIVE DETECTION, THE MANAGER MUST IMMEDIATELY MARK THE EMPLOYEE BASED ON A PRE-DEFINED SYSTEM (UNDER INVESTIGATION/ INFECTED/ HIGH RISK OF CONTACT/ LOW RISK OF CONTACT). AND BASED ON THE SITUATION THE PLATFORM WILL PROVIDE GUIDANCE ON THE IMMEDIATE STEPS TO BE TAKEN, NEAREST TEST CENTRES, HOSPITALS.

- DAILY EMPLOYEE CHECK-UP + BACKGROUND DIAGNOSIS + EMP DATA
- EMERGENCY INCIDENT MANAGEMENT + PLAYBOOK
- TRACKING + SPREAD MANAGEMENT

3. MONITORING THE RISK OF OPERATING + OUTBREAK



ENABLING DATA DRIVEN DECISIONS

IF ALL THE EMPLOYEES AND THEIR HEALTH STATUS' ARE TRACKED, A DASHBOARD CAN BE POPULATED WITH DATA THAT MIGHT ENABLE EMPLOYER, THE MEDICAL EXAMINER AS WELL AS THE EMPLOYEES ITSELF TO BE AWARE OF THE OVERALL HEALTH OF OPERATIONS AND TAKE CALLS ON CONTINUING TO RUN, OR ANTICIPATE AN OUTBREAK AND QUIT.

WHAT'S NEXT?

- > GET HANDS ON LIVE USER DATA TO VALIDATE THE NEEDS.
- > DETERMINE THE SCOPE OF THE PLATFORM
- > DETAIL/ DEVELOP OUT THE DIGITAL PLATFORM FOR POSSIBLE PRODCUTION