



ADDRESSING DISRUPTION? THERE'S AN APP FOR THAT!

Infosys develops health screening app to help mining company screen personnel for Covid-19



BUSINESS-AS-USUAL AT THE HEIGHT OF THE PANDEMIC

A global mining company was challenged by disruption caused by the Covid-19 pandemic: mitigate risk of community spread and prevent slowdown / shutdown of operations at their mining sites in Canada.

The mining company had an imperative: being an essential service, ensure business-as-usual at its mines, mills and smelters during the pandemic.

The company had to prevent virus transmission as well as pre-empt disruption caused by ailing personnel unable to report to work.

Infosys developed a mobile app to screen mine workers, identify and segregate those with symptoms, and report findings to management for medical treatment and contingency planning.

A SENTIENT ENTERPRISE RESPONDS TO A BLACK SWAN EVENT

The mining company, being a provider of essential services, could not afford to have its operations disrupted by the Covid-19 pandemic.

With hundreds of workers entering and leaving its premises in shifts 24 x 7, the company had to act fast, to ensure that it could:

Provide a safe working environment by identifying personnel with symptoms across mining sites and avoid community spread

Segregate Covid-19 positive workers and ensure immediate medical treatment

Offer real-time visibility into number of mine workers with symptoms for proactive planning and reallocation of labor





INFOSYS SOLUTION – A HEALTH SCREENING APP

Infosys developed a mobile app for supervisors at mining sites in Canada. The supervisor queries employees about their health and enters responses.

The app informs the supervisor to allow or forbid access to employees at the mine based on World Health Organization (WHO) guidelines. The app captures the health status of each employee and pushes it to the cloud.

Managers get a dashboard view of the number of mine workers with Covid-19 symptoms across mining locations. Real-time visibility into the health condition of workers enables managers to reallocate labor using Power BI reports for uninterrupted operations.

App features

Infosys used the Ionic framework to develop the mobile app. Our team hosted the app on Microsoft Azure and leveraged SQL Server Management Studio (SSMS) for SQL queries.

The multilingual app offers the flexibility to add innumerable mining locations for screening, modify queries about a worker's health based on the latest WHO guidelines, and scale up to screen 100,000 workers every week.

SOLUTION HIGHLIGHTS

The company's mines are located in remote locations where connectivity is patchy. Our mobile app works in subterranean conditions since it is created with an offline mode option.

As the mines begin opening up more entry points leading to an increase in the number of workers, the app allows addition of screening stations. Moreover, it always stays current because the queries can be modified based on updated WHO guidelines.

It is also easy to repurpose the app globally. The app is multilingual and has been successfully rolled out across mining sites in Brazil, Indonesia, Oman, and other countries.





BENEFITS

The app provides real-time visibility to all layers of management. Across scanning stations, the data saved on the cloud is available to run Power BI reports for senior leadership. It ensures efficient planning of shifts and operations impacting throughput.

The questions asked via the mobile screening app enable the supervisor to identify Covid-19 positive cases. Workers with symptoms can be administered immediate medical attention.

SCREENING AS EASY AS 1-2-3

Visitor, Employee,
Contractor about to
enter work area



Supervisor asks
series of questions



Supervisor determines
"Accept" or "Rejects"

People Screening
Mobile app
captures all real
time responses
pushed to cloud

Across 15 stations,
the data saved on
cloud is available to
run Power BI reports
to Senior Leadership

Senior Leadership has
Power BI Reports with
real time data

Select Location
Select Shift
Day
Afternoon
Night
GET FORM

Evaluation
Total Score
Passes
Fails
3 3 0
ACCEPT
REJECT

Rejection Log
Date
Name
Reason
REJECT



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WE CAN DO IT FOR YOU.**

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