



MOBILE APP-BASED SITE ACTIVITY SOLUTION FOR A LABORATORY INFORMATION QUALITY MANAGEMENT COMPANY

About the Client:

The client is one of the leaders in the ME region, making compliance solutions exclusively for companies providing services in Testing, Inspection, and Certification globally.

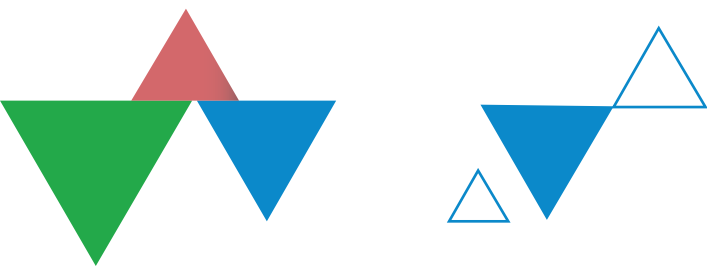
These solutions include HR/Payroll, Lab Tests, Geo-Technical Investigations, Finance, Inventory, Sales & Marketing, Quality, etc. The client offers a suite of sophisticated Laboratory Information Management Systems (LIMS) integrated with quality management standards and supports Manufacturing & Trading, Government, Shipping, Automotive, and Real Estate Management industries.

Challenges:

The client wanted to capture site data and track activities using a solution that could be easily used by the employees onsite. The solution should be intuitive, and mobile and could be used offline along with the features to manage tasks and site activities.

It should provide quick access for employees about the activities, daily tasks, generate timesheets, and capture soil sample data from drilling sites without depending on the web application.

Thus, developing a mobile app as a mobile solution to manage employee tasks and site activities could address the functional and non-functional requirements of the client.





Solutions:

Centelon developed a hybrid mobile app (Xamarin) that helped the client to assign tasks to employees based on their roles. Each employee can download and register on the mobile app using the company id, and the employee details are automatically fetched from the backend system. Once the employee logs into the app, the tasks assigned for that day are populated under assigned tasks.

For creating the worksheet, there are options to record the time taken for each task. The drilling site soil samples are collected, and parameters such as location, depth, etc., are captured in the solution. The mobile app helps employees to capture these data along with images and video with annotation facilities.

The app helps employees to track the daily progress of the tasks (each task is divided into sub-tasks such as drilling, testing, shifting, moving, HSE, etc.).

Additionally, it enables them to capture soil sample collection details at each location through GPS, images/video, submit daily worksheets and get approval.

Once the job is completed, a report is generated and shared via email. The app helps to track the employee activities on the drilling site from login to logout.

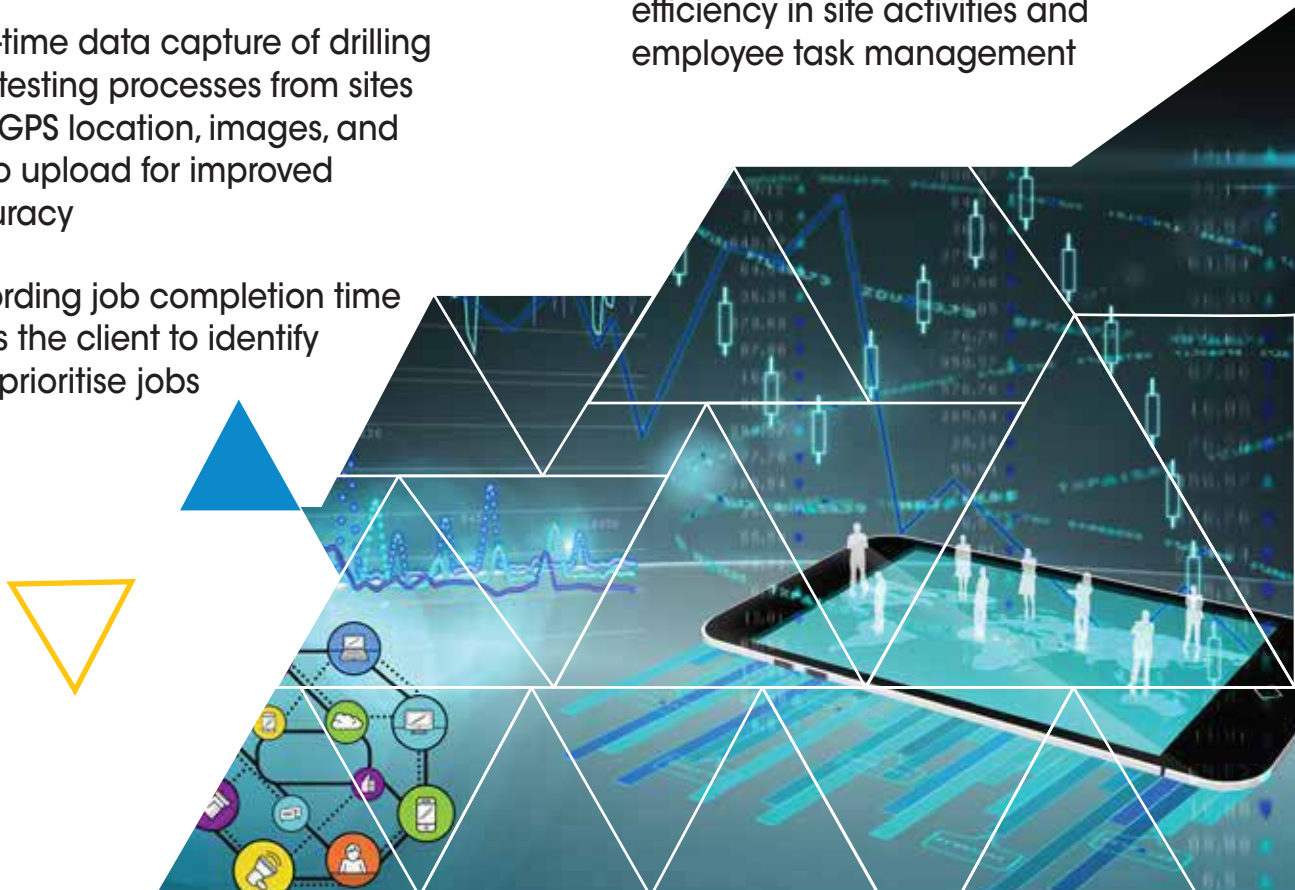
The app also helps employees to track site expense details and submit these claims for reimbursement. The mobile app can work offline in remote regions with no internet connectivity. The data will be stored in the app, and when online, it will get synced with the backend system.






Benefits:

- ✓ Improved efficiency and saved time - Employee attendance, timesheet, and approval
- ✓ Role-based task allocation for better planning and productivity
- ✓ Track the progress of each task and their sub-tasks on site
- ✓ Real-time data capture of drilling and testing processes from sites with GPS location, images, and video upload for improved accuracy
- ✓ Recording job completion time helps the client to identify and prioritise jobs
- ✓ Offline availability of the app helps in the seamless use of the system
- ✓ Easy expense tracking and reimbursement
- ✓ Daily worksheet submission and approval
- ✓ Improved productivity and efficiency in site activities and employee task management



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