

KAAR TECHNOLOGIES



A water utilities Giant automates its Asset Management Processes



About the Client

The Client is a government owned entity dedicated to provide quality water and wastewater management services in Saudi Arabia, keen for its CSR activities in promoting and enhancing skills, improvising career programs for its employees. With the vision to become a world-class water utility company, NWC is pumping out more than 3 million metric tons of water per day in Jeddah to meet the summer needs of the Kingdom.

Business Situation

The Hajj period attracts close to 3 million pilgrims every year from across the globe. In order to provide basic amenities for such a large gathering, the government of Saudi Arabia was reaching out for a guidance technology to service the gathering, helping them to find & access drinking water and sanitation facilities across Mecca.

The entire process flow of commissioning, maintaining and decommission of the basic amenities was time consuming and took a toll on the manual asset management team. The client was in dire need of a solution that would simplify their work-flow, improve operational efficiency and agile implementation within their stipulated time.

Business Challenges

The client's inspection team faced the following challenges:

- Absence of an automated system to manage the assets
- Lack of streamlined process and work flows for the inspection of assets during maintenance
- Difficulty in consolidating & analysing humungous collected data
- Non availability of real-time and accurate data
- Human error leading to unnecessary delays and also repetitive data collection
- Unplanned utilisation of resources for these activities resulting in a chaotic work process

The Client's Asset Management team concluded that they need a mobile technology to resolve this time consuming and tedious process.

Kaar Solution

Kaar Technologies was approached by the client as a technology partner to address their challenges. A team comprising of high-calibre SAP consultants was exclusively formed for the project. The team then conducted a deep-dive analysis to understand prevailing business problems and arrive at a simplistic solution. As a result, the team developed a mobile app – Asset Maintenance using SAP Mobility Platform on Android. The implementation was well received by the client's management team and the inspection team. The Asset Managers are currently accessing the app built on latest Android OS using their rugged devices from the fields to commission, decommission and maintain the assets as required

The developed mobile app boasts an intuitive and easy-to-use interface that helps the managers complete their tasks with just few simple clicks. The app even allows inspectors to collect data in places where there is no internet coverage. The collected data then automatically syncs with the backend system once the connection is re-established.

The app helps the asset managers to consolidate the available data in real time and generate reports. The solution has significantly reduced the human error and repetitiveness of work ensuring not only the clients satisfaction but good reviews from the end-customers as well.

Salient features of the mobile Application

- Offline DB
- Camera Integration
- Barcode Scanning
- Integration with ARC GIS Maps

Business Benefits

- Streamlined inspection process by eliminating manual work (paper based)
- Increased resource productivity
- Prompt analysis and feedback on field inspection activities
- Quicker and faster reports using mobile devices
- Improved Asset Reliability
- Reduction in ideal time and over time
- Reduced Maintenance Backlog

About Kaar

Kaar Technologies is a global consulting firm focused at designing, delivering and deploying the finest ideas and SAP expertise to empower companies in achieving new heights of excellence in today's challenging business landscape.

Our combined thrust drawn from the business vision of our leadership team and assimilated SAP capability propels us to partner with our clients in identifying and architecting their business agenda. As a CMMi level 3 company, Kaar believes in being a trusted advisor to clients and fosters long-term working relationships by exceeding customer expectations.

Driven by the steadfast pursuit of excellence, Kaar Technologies exudes professionalism and proficiency in all areas of function. Every day we are inspired to impact businesses with original and imaginative approaches, helping to cultivate tomorrow's breakthroughs.



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