



Industry: e-Governance

Technology: Java 8, Angular 7, jQuery, HTML, CSS, Spring boot framework, Hibernate JPA Implementation, Github, Oracle 11g, Jenkins, CI/CD, AWS Cloud

Country: Florida, USA

Client Profile:

The client is a leading digital transformation company in the United States of America, guiding state and local governments in their digital transformation company. The company provides simple and proven technological solutions to better connect various government organizations to the communities they serve. Experts at the client's organization profoundly understand the business of government, helping them to offer personalized solutions that meet the agency's culture and needs.

Challenges:

Client's enterprise and Division of Water Resources Management (DWRM) are accountable for managing statewide coordination of compliance and administration activities relating to the development of policy guidance, and training materials. The client reached us with requirements to develop a web application called WaterCom that will track all inspection, compliance, and enforcement activities and integrate with existing databases and the client's enterprise document management system (EDMS), Oculus.

Solution

Experts at KCS analyzed the client's needs and offered below listed solutions:

- Our experts used the latest technologies such as Java 8, Angular 7, jQuery. to develop the WaterCom web application
- The use of the latest Java 8 helped WaterCom web application in being more powerful and responsive
- Our experts used Java 1.8 in order to make a dynamic web application for the client
- For designing an intuitive and user-friendly, we used the frameworks and technologies such as Angular 7, HTML, CSS, and jQuery
- Spring boot framework and Hibernate JPA Implementation are specialized frameworks of Java that helped us to add the latest features to the web application

- GITHUB source code management system helped us to access the propriety repository created by the client
- Oracle 11g helped WaterCom web application to retrieve the data from the client's serve database
- Jenkins and CI/CD are built tools that helped web application to execute automated codes developed by our experts
- The client's database was already deployed over the AWS cloud, which helped the WaterCom web application in providing 360-degree security to the data

KCS Approach

The decision to use modern technologies while developing a web application proved to be a huge success for the Division of Water Resource Management, Florida. Java 8 made the WaterCom web application more powerful in terms of performance and quick response. While designing the web application, our experts left no stones unturned, hence we used Angular 7, HTML, CSS, and jQuery to make it more intuitive and responsive. Using Spring boot framework and Hibernate JPA implementation helped us to develop custom APIs that helped us to add the latest features to the web application. The AWS integration gave comprehensive security to the database and the data. Using jQuery 11g, WaterCom can easily retrieve data from the database in no time.

Impact:

Our solution to building the WaterCom web application, streamlined all the tasks to check impurities in the wastewater and stormwater for the Division of Water Resources Management, Florida, USA. The Division is already using this web application and has shared positive reviews for the same. The WaterCom web application can rack all inspection, compliance, and enforcement activities and integrate with existing databases and the client's enterprise document management system (EDMS), Oculus.

Tech Stack



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