

Architectural Review Task

Client side Proposal.

1. Having the desktop web application along with remote field tool can exist in same application. However, I am hoping that we can control provide the control to the pages based on the login user role.

2. I would like to suggest the .Net web application along with mobile application using Xamarin framework. Xamarin has a better offline storage with XML support, so it will become easier for remote field tool users to store their information locally and sync with server when online.

3. If we convert the remote field tool into mobile application using Xamarin framework, this can be run on different platforms like Android, iOS and windows too.

For more information: <https://dotnet.microsoft.com/en-us/apps/xamarin>

4. It is about SQL database, in my research I found out that AWS services are a way ahead of SQL database in terms of performance and security; therefore, if possible we can replace it with AWS services.

5. There is also better chances if we use Amazon's API gateway services. Amazon API Gateway is a fully managed service that makes it easy for developers to create, publish, maintain, monitor, and secure APIs at any scale. ... Using API Gateway, you can create RESTful APIs and Web Socket APIs that enable real-time two-way communication applications.

For more information : <https://aws.amazon.com/api-gateway/>