



# Your Ally for Delivering Focused Solutions NEXT-GENERATION ERP

## SUMMARY

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Our partner found great success with their existing ERP system. It is flexible and fits well with their business processes. There is a desire to modernize the look and feel of the system to enable it to reach a wider user base within the company and enable future enhancements. Modifying the existing VB.NET user interface would not bring the desired benefits and would limit the talent pool for future maintenance. A web-based solution would be even more flexible, easier to host, and a more modern representation of their brand.

## SOFTWARE DEVELOPMENT APPROACH

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### MINIMUM VIABLE PRODUCT (MVP)

Our continuous value engineering approach gets the highest value features in the hands of our partner's subsidiaries early and often.

### RUNNING SYSTEMS IN PARALLEL

Our MVP approach and using the existing SQL databases allows users to leverage the new system exclusively or both systems in parallel. It also reduces the expense and risk of data synchronization.

## SOLUTION

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- CI/CD pipeline hosted in AWS
- Java Spring Boot App that runs the API
  - GraphQL as the API layer
    - Flexibility to return only the fields we need per screen
    - Allows clients to pull data from multiple tables in one request
    - Flexibility to support multiple user interactions in the UI
    - Enables other applications in the future to save and retrieve data via this API
- A browser based UI written in React with Typescript
- Authentication done via GSuite

## BENEFITS

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- Webapp that can run from any evergreen browser and any device
- React is the most widely used framework for front end development
- Familiar tech stack for the partner
- Deploying a new version would apply to all users simultaneously
- Lower cost of maintenance over time
- Easier to find talent in current technologies