

UBN PROJECT CASE STUDY



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Client Profile

- The organization is founded in 1944, headquartered in Neponset.
- The client business is committed to safety, excellence and innovation in bulk-materials handling.
- They have developed hundreds of products to make the handling of bulk materials cleaner, safer and more productive.
- Their facility is certified to the "world-class" ISO 9001 Quality Systems
- The client currently holds 134 patents and trademarks world-wide.

At-a-Glance

Client's Business Industry: **Manufacturing**

Client's Location: **USA**

Project's Core Solution Area: **Xamarin and Native**

Key Project Challenges

Business Objectives:

- ☐ To get real time business scenario updates.
- ☐ Capability to configure and customize the app as per the need of the user.

Statistics & Numbers:

- ☐ Project Duration – 2000 man hours.
- ☐ Delivery Model – Fixed Bid
- ☐ Team Size – 8
- ☐ Engagement Model - Offshore
- ☐ Language - Objective-C, C#, Java

The client is always committed to safety, excellence and innovation in bulk-materials handling. Over all these years, they have developed several products to make the handling of bulk materials cleaner, easier, safer and productive.

The objectives of the project:

- ☐ Stringent deadlines to develop the app for different platforms.
- ☐ Extremely customized view for business need.
- ☐ Use of native controls like Camera, Geo Location and SignaturePads in dynamic and configurable administration setup. It will be unlike the generic applications attached over a static or stipulated area.

Solution to the Challenges

Key Business Benefits :

- ✓ User can see as many controls as configured.
- ✓ No need to change anything to mobile App, just change the feeding JSON to parse everything to render.
- ✓ Remove limits with pictures and controls with existing ProntoForm appl.
- ✓ Offline use of the app for real time business scenarios.

Statistics & Numbers:

- ☐ Framework – Play
- ☐ Front End - JSP for web app, Xamarin and Native for mobile app
- ☐ App Server – Play
- ☐ Database - MongoDB, MySQL
- ☐ Platforms - AWS, iOS, Android

- Use of Xamarin and Native for mobile application.
- Creation of a web application using Play framework to get all the rendering information, and dynamic configuration.
- Creating ReST based service to send the information to the mobile apps.
- Dynamic rendering of control information from the runtime service.
- Generating PDF and HTML reports based on the transaction user made.

Feasibility

Key Technology Benefits :

- ✓ Xamarin – to develop cross-platform feature.
- ✓ Native – to develop native components in the device.
- ✓ Play Framework – for Web and web services configurations.
- ✓ JasperReport – For report generation.
- ✓ Replaced the user of ProntoForms to own customized application

Achievement :

The client can use the app in offline mode. The user can utilize all features without depending on the network coverage. All data can be sent and updated reports can be received with ease.



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