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The Art of Software Development

A Software Solution for Construction Project Management

Key Information

Industry:
Real Estate development

Project duration:
3.5 years

Team Size:
8 software engineers

Technologies:
- Java, Spring Framework
- JPA, Hibernate, REST API
- Angular, JavaScript, HTML, CSS
- PhoneGap
- Microsoft Azure, Nginx, Tomcat

Services:
- Analysis
- Architecture and design
- UX/UI design
- Implementation
- Testing
- Deployment
- Maintenance
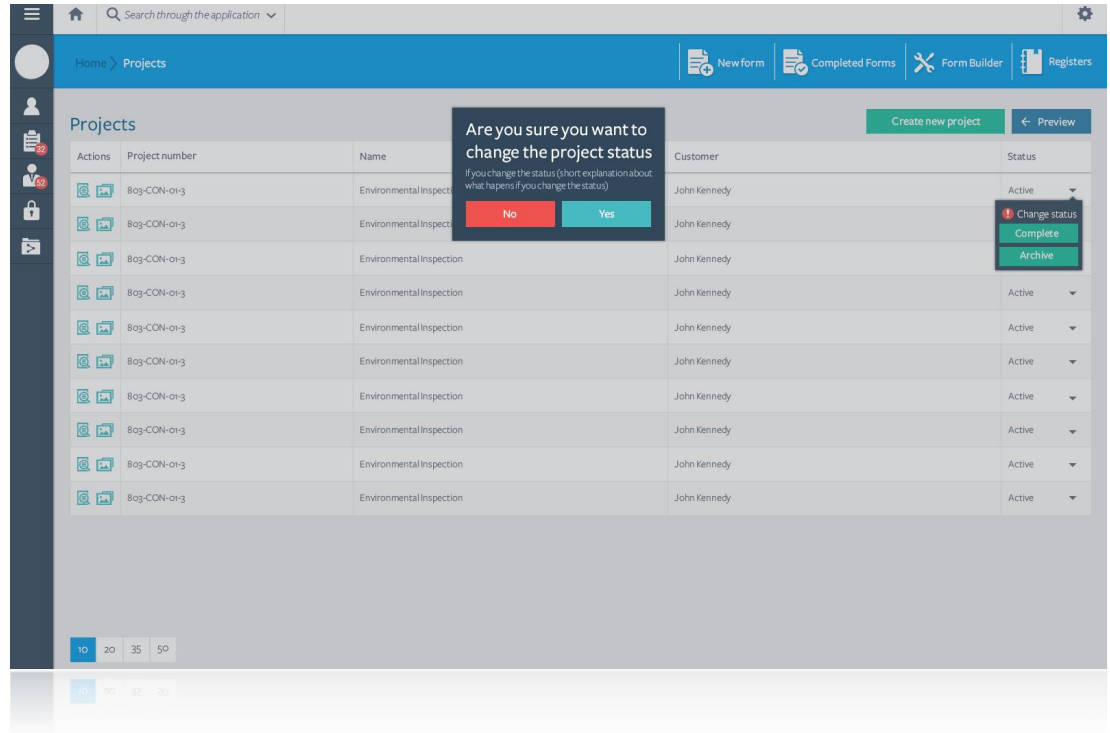- Project management

Highlights

- A web and mobile platform for **construction projects**, ensuring **control over finances**, **contracts**, and **HSQE compliance**.

- Real-time reporting, **cloud storage**, and **automated document synchronization** for enhanced collaboration.

- Successfully developed and deployed the minimum viable product within a short timeline. The system continuously evolved with new features after the delivery of the first version.

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Product Overview

This system consists of a **web and mobile platform** designed for **managing construction sites**, providing users with control over project finances, contract documents, and HSQE compliance. The solution enables **seamless integration** between **construction sites** and the **head office** through **secure cloud storage**.
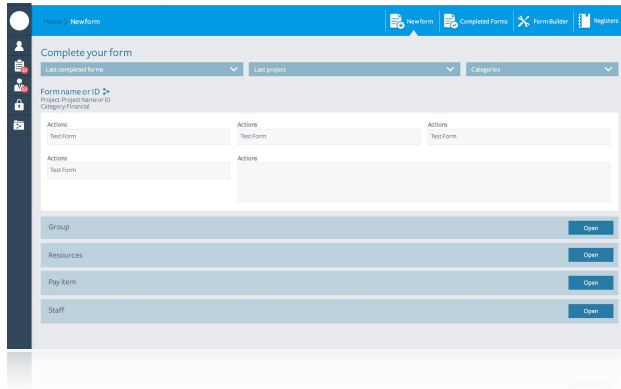
Challenges

The biggest challenge was familiarizing ourselves quickly with the forms and regulations used in the UK, and maintaining a great adherence to these standards with our generated PDF documents. Another challenge was the very **short deadline** for the minimum viable product set by the customer **due to business reasons** (short time to market).

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Provided Solution

The ArtSoft Consult team designed, developed, and implemented the entire solution using Java technologies for the back-end, AngularJS for the front-end, and PhoneGap for the mobile applications (Android and iOS).

The minimum viable product was delivered on time, and development continued with the addition of new features aimed at **optimizing construction project management**.
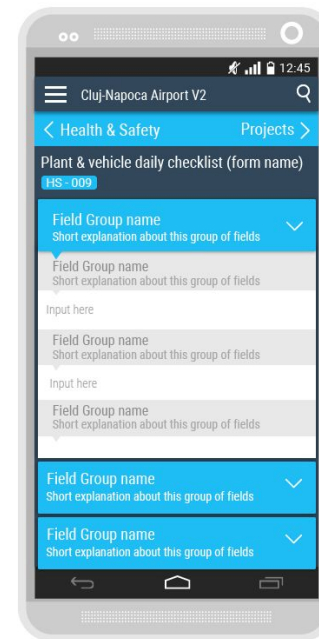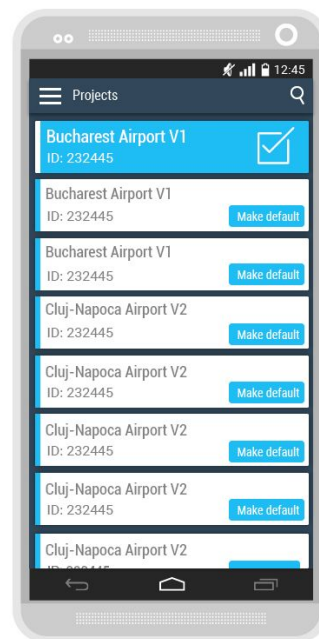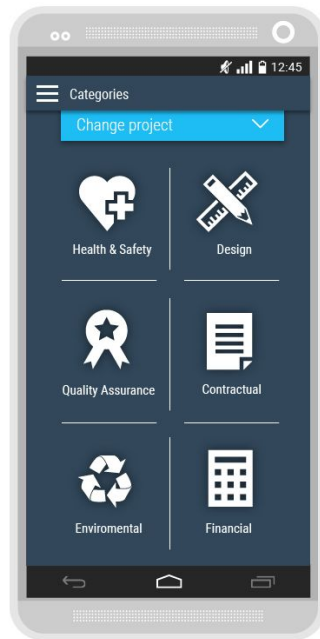

Key Features

- Specially designed mobile apps to allow **access** to **site and company documents** directly from the field, using a mobile device

- Enforces the implementation of **safety, quality and environmental standards**

- **Real-time reporting** regarding projects, staff members and performance indicators

- Complete, digitized site management system for web and mobile

- Cloud storage application with **improved security** measures

- Information is available for download in a structured PDF format at any time

- A **document management portal** that allows authorized project team-members to upload or revise project files, drawings or specifications and for these to be automatically synced with the site management team and their mobile devices.

- This ensures that **site teams** only ever **operate using the latest information** available to them

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Results and Impact

The application helps **reduce paperwork** and allows on-site teams to complete administrative processes quickly and efficiently, regardless of location or internet connectivity.

By integrating a **quality management system**, the solution ensures **compliance with organizational standards**.

Client Words

"Choosing Artsoft as a development house for our project was a no-brainer. Out of the companies whom tendered they were identified as being the organisation that could deliver value for money whilst meeting our strict go-to-market time constraints. To date they have lived up to expectations."

- **Founder and CEO**

Let's get in touch

ArtSoft Consult is a trusted partner in the IT industry, providing tailored solutions to address your unique business challenges.

With our proven expertise our team delivers innovative solutions and development services.

Drawing from years of experience and industry insights, we deeply understand this industry and we look forward to working with your business.

For more details on our services and team, please **contact us**.

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