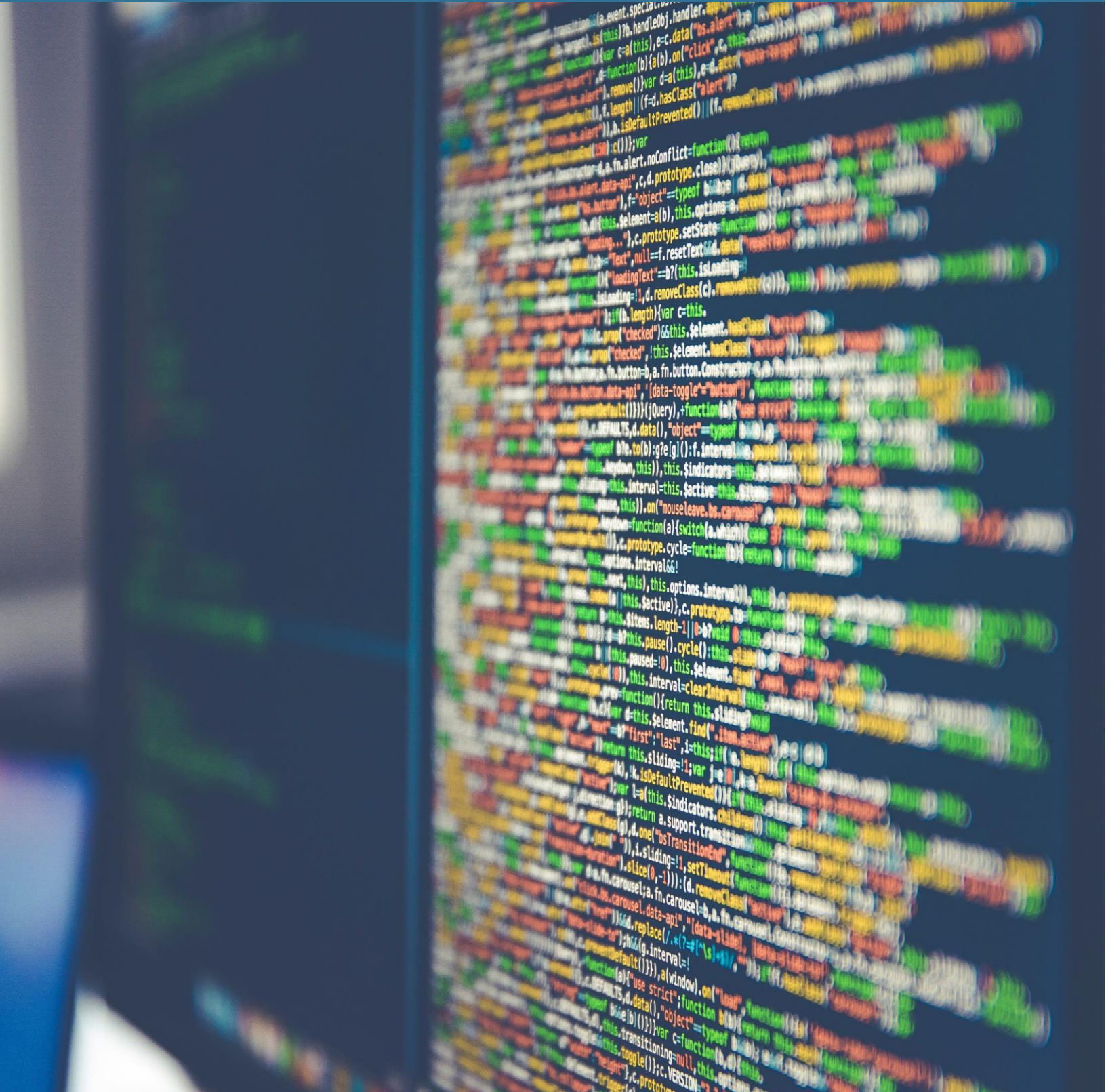# ELECSOFT

CASE STUDY

RAPID PROTOTYPING – CONSTRUCTION PROJECT ESTIMATION SOFTWARE

THE CLIENT

The client was a Canadian construction company who engaged **Elecsoft** to digitize and streamline their project estimation and management process.

THE CASE

Employees of the construction company were using a custom-built CRM web app for project estimation purposes. The web app was satisfactory with its estimation accuracy however they were looking to improve the overall flow and functionality of the application. Additional user flows, such as customer user, were required. They also needed integration with their accounting software and added functionality that allowed customers to pay for projects directly through the app.

THE SOLUTION

Elecsoft was engaged to perform a thorough review of the clients current CRM project. **Elecsoft**'s team of Project managers and software engineers reviewed, evaluated, identified test cases, and developed a comprehensive project plan for the client.

The Project Management, Software development and QA teams carried out the following services:

Project Management Team	Create and manage documentation
	Coordinate delivery of all project requirements
	Implement Quality assurance processes.
Software Development Team	Design the solution
	Select the technologies needed to develop solution
	Develop required code changes
	Help maintain code repository
QA Team	Perform Integration testing before deployment
	Unit test code
	Resolve defects found in test

TOOLS/TECHNOLOGIES USED

JAVA Scripts	Redux	Loopback
React	Git Hub	Jira

DELIVERABLES

Integrate Google Maps API for estimator function
Quickbooks integration – Allow the estimator portal to connect with relevant Quickbooks APIs
Redesign the Admin portal with an improved dashboard
Integrate app with a payment provider (Stripe) to allow for easy check-out
Improve customer portal by allowing them to modify quote and request changes

THE OUTCOME

With Elecsoft's experience in software development, test management and quality assurance we were able to deliver a superior web application experience both for the admins and customers of the construction company. Our experience in rapid prototyping allowed us to deliver the project in a matter of 14 weeks which included time needed for defects or environment related issue resolution.

The estimator/quoting function has been improved by integrating with Google maps API. The updated web application now has full integration with Quickbooks allowing it to report on project related items through Quickbooks APIs. The customer experience has also been improved through an updated login, allowing them to modify and pay for their orders directly through the app.

Since delivering the project we've established ourselves as a trusted software development partner for the client and are being considered to develop a pre-launch landing page as well as SEO and social media marketing.