

Introduction

Companies need assistance in improving the quality in their products and processes. The Project Quality Management Application helps manage the Quality Improvement and Control Process.

Rationale

The costs of poor quality¹ can be up to 25% of the costs of goods sold. If it costs \$100 to fix a product in the field it might cost only \$1 to fix at the source. This ratio occurs in all kinds of domains; for instance, it might cost \$100 to fix a defect in a production computer system might cost a dollar to make sure the defect never got into the system.

Six Sigma is a methodology and set of tools to improve business processes by reducing defects and errors and increasing quality². Six Sigma uses a structured approach called DMAIC to manage the quality improvement process³.

Overview

The Project Quality Management application will:

- be an web application that
- will manage all of the phases in the DMAIC process
- will capture the information for each of the documents produced
- will produce outputs from the documents (Word, excel , PDF, other)
- will manage approval workflows and will have project reporting

The current state of the project is:

- The database design is complete
- Prototype of the initial set of screens is done (about 160 or so)
- The overall architecture is done

Next steps

- Competitive analysis – is someone else doing this (do we need a SWOT analysis?)
- Does this all make sense
- Sanity check- do my screens make sense? What's a reasonable set of validations for each screen etc.
- Do the roles make sense? Workflows, security etc?
- Discuss Future state etc.

¹ <https://www.techamsolutions.com/post/do-you-know-your-total-cost-of-quality>

² <https://www.simplilearn.com/what-is-six-sigma-a-complete-overview-article>

³ <https://www.simplilearn.com/dmaic-process-article>