# 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 quality[[1]](#footnote-2) 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 quality[[2]](#footnote-3). Six Sigma uses a structured approach called DMAIC to manage the quality improvement process[[3]](#footnote-4).

# 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?)
* 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 [↑](#footnote-ref-2)
2. https://www.simplilearn.com/what-is-six-sigma-a-complete-overview-article [↑](#footnote-ref-3)
3. https://www.simplilearn.com/dmaic-process-article [↑](#footnote-ref-4)