Razorback Requirements Document

**Q2 Database**

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## 

Table of Contents

[Introduction 3](#_Toc292366200)

[Customer Focus Statement 3](#_Toc292366201)

[Requirements 3](#_Toc292366202)

[Performance 3](#_Toc292366203)

[Implementation 3](#_Toc292366204)

[Metrics 3](#_Toc292366205)

[Impact 3](#_Toc292366206)

[Future Work 4](#_Toc292366207)

[Enhancements 4](#_Toc292366208)

## Introduction

The database will be used to store all data about the data blocks collected by the system. It will be designed in such a way that it is easy to change the underlying implementation in the future.

## Customer Focus Statement

The database will be used directly and indirectly by analysts to get data about an event from the system.

## Requirements

### Performance

* The database must be high performance.
* The database must have good indexing technology.

## Implementation

In this phase we will be using MySQL as the backend database engine. All functionality will be wrapped in such a way as to abstract the implementation details from the calling process.

The system will provide functions for CRUD operations on the following data element:

* Blocks
* Events
* Metadata Lists

It will also provide functions for linking blocks to other blocks in parent/child relationships.

The schema can be seen in “Q2 Razorback DB - 2011-5-3.pdf”.

## Metrics

* Table size
* Records size

## Impact

* This code will be integrated into the dispatcher.

## Future Work

### Enhancements

* Investigate replacing or augmenting MySQL with another more suitable storage engine.