# Introduction

**General description:** The database will from the back bone of the application storage for prospective Research Higher Degree (RHD) students. The database will allow academic staff, research higher degree staff and database administrator’s access to create, update and mange RHD applications.

**Mission statement:** To produce a database that can be used to manage the initial applications of prospective Research Higher Degree Students

**Schedule**

To write the database Definition

To find data and write scripts to populate the database

To write scripts that mimic possible transactions

To then run the scripts automatically to ensure transactions are possible and operate as desired

Iteratively add more data, possible transaction scripts and continue testing until all of the core transactions are covered and the majority of the infrequent transactions have some level of minimum coverage

# Required resources

|  |  |  |
| --- | --- | --- |
| **Type** | **What** | **Why** |
| Software | MySQL Community Edition | The DBMS platform the DB will run on |
| Text Editor | To write and edit scripts |
| Hardware | Two computers | To run MySQL and the text editor |
| Testing Tools | STKUnit | To automate testing of the scripts |
| Staff | 2 people | To both write and check the scripts |

# Testable aspects

**Unit tested transactions**

* ? … the transactions tested

**Integration testing aspects** (transactions of transactions)

* ? ...

# Non Testable aspects

* Any graphical user interface that uses these the database will not be tested
* Highly specific performance enhancements
* Maintenance transactions (Deletions, though the required functionality has been implemented)

# Test Produced documents

A single test document, listing

* The specifics of each test, what they are trying to test
* Assumptions
* Demonstration that the test pass

# Risks and dependencies

* It is not possible to test the database as it will be in a few yeas time and the issues it may have, due to the impracticality of populating the database with such a large volume of information.
* It is not possible to test all transaction pathways as many are complicated and will be used rarely if at all

# Project Criteria

Goal: To ensure that the database can handle the main transactions as outlined in previous document in line with the overall requirements of the database.

# Success and Failure measured by

Success will be measured based on the amount of tests that pass combined with their relevance to the core transactions of the database

References

… the testing software