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| TAFE QUEENSLAND BRISBANE |
| TestProjectPleaseIgnore |
| Technical Documentation |
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| **5/17/2016** |

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# Implementation Details

## Algorithms

This section is for describing the state of the program when it was first acquired.

Naming conventions

Repeated code

Unnecessary code

Missing methods

The intentional of this program is to facilitate the creation and editing of Journal data.

### Form Load: Original

1. Get database connection
2. Get table of Topics
3. Bind table of Topics to Combo Box
4. Get Table Of Journals
5. Bind first journal record to the form
6. Make a note of the current record ID
7. Display an index and total record count to the user

### Form Load: Modified

1. Call Topic Binding Method
2. Get Table Of Journals
3. Bind first journal record to the form
4. Make a note of the current record ID
5. Display an index and total record count to the user

### Topic Binding Method

1. *Get database connection*
2. *Get table of Topics*
3. *Bind topics to Combo Box*

### Save: Original

1. If record being displayed has an ID of 0#
   1. Create connection to the database
   2. Runs an insert query
   3. Pauses thread for 500ms\*
   4. Trigger event: Display Last Record in Database
2. If record being displayed doesn’t have an ID of 0
   1. Create connection to database
   2. Runs an UPDATE query
   3. Pauses thread for 500ms\*
   4. Trigger event: go back by one record, then forward by one record
      1. Essentially refreshes data on screen (reflecting your updates)

*#: 0 is a placeholder value for a new record*

*\*: Thread pause is to prevent race condition between DB and Program*

### Save: Modified

1. If record being displayed has an ID of 0#
   1. Create connection to the database
   2. Runs an insert query
   3. Pauses thread for 500ms\*
   4. Trigger event: Display Last Record in Database
      1. Potential logic improvement:
      2. Case: Disable save button until data is loaded
      3. Case: Use a second placeholder (eg -1) to note that a record was inserted
2. If record being displayed doesn’t have an ID of 0
   1. Create connection to database
   2. Runs an UPDATE query

*#: 0 is a placeholder value for a new record*

*\*: Thread pause is to prevent race condition between DB and Program*

### First: Original

1. Get database connection
2. Get table of Topics
3. Bind table of Topics to Combo Box
4. Get table of Journals
5. Bind first Journal record to Form
6. Make a note of the ID of the record
7. Displays an index and total record count to the user

### First: Modified

1. Get database connection
2. Get table of Journals
3. Bind first Journal record to Form
4. Make a note of the ID of the record
5. Displays an index and total record count to the user

### New Journal Entry: Original

1. Call delete function - confusing

### New Journal Entry: Modified

1. Call New function

## Debugging

<Every program you write will need to incorporate some debugging skills. Use this section to demonstrate any debugging tools that you used, as well as to detail any debugging specific tasks requested in an assignment. One or two examples of a technique is enough.>

## User Interface

<Use this section to show prototype user interfaces as well as final designs. Explain your design decisions.>

# Reports

<Some assignments will require you write reports or short essays on specific topics. Put them in this section.>

# Reference Material

<If you sourced any code online or used reference material for whatever reason, note it here. Include a brief description of what you found as well as where and why you used it.>