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| *Software Project Team QAFRM\_Vldtn\_SrcCde14* |

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| Project Name: |  |
| Project Phase |  |
| Completed By: |  |
| Date Completed: |  |
| Date Submitted: |  |
| Date Archived: |  |

Developed application - match to the requirements and design:

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| # | Comments |
| 1 | How and where does the application deviate from the project requirements? |
| 2 | How and where does the application deviate from the application **design** provided? |
| 3 | Suggest any additions that could be added to the **risk matrix** for future projects: |

Application - Class Structure:

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| **#** | **Item** | **Status/Comments** |
| 1 | Class Breakdown | Appropriate? |
| 2 | Inheritance | Used? Used correctly? |
| 3 | Associations | Clearly applied? |
| 4 | Constructors | Used? Used correctly? |
| 5 | Polymorphism | Used? Used appropriately? |
| 6 | Interfaces | Used? Used correctly? Used globally? Applied at method level? |

Application - Coupling and Cohesion:

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| # | Item | Status/Comments |
| 1 | Methods | Minimal? Well Considered? Overuse? |
| 2 | Parameter Passing | Used? Used correctly? Under-utilised? |
| 3 | Functions | Functions have been appropriately used? Appropriate data types returned? |
| 4 | Global Variables | Appropriate level of use? Under-utilised? Over-utilised? |
| 5 | Method Naming | Consistent naming convention applied? Each method name reflects the full and complete purpose of its method? |
| 6 | Method Portability | Methods could be easily transplanted/reused in other applications? Could be added to a re-use library? |

Application - Logic:

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| # | Item | Status/Comments |
| 1 | Sequence | Easy to follow? Appropriately applied? |
| 2 | Selection (*If/Case*) | Appropriately applied? Level of complexity within conditions? Extended use of nested Ifs? |
| 3 | Iteration (*Loops: Where / For / etc*) | Appropriately applied? Level of complexity within conditions? Level of nesting? |
| 4 | Method and Loop Exits | Method or loop breaks found mid code sequence? Appropriately structured logic? |
| 5 | Complexity of code segments | Easy to read? Multiple level of logic within individual lines of code? Excessively intricate? Multi-level? |
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Application - Naming Conventions:

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| # | Item | Status/Comments |
| 1 | Classes | Named consistently? Names conform to standard(s)? Appropriate language? Name reflects purpose of class? |
| 2 | Objects | Named consistently? Names conform to standard(s)? Appropriate language? Name reflects purpose of object? |
| 3 | Variables | Named consistently? Names conform to standard(s)? Appropriate language? Name reflects purpose of variable? |
| 4 | Methods | Named consistently? Names conform to standard(s)? Appropriate language? Name reflects purpose of method? |
| 5 | Parameters | Named consistently? Names conform to standard(s)? Appropriate language? Name reflects purpose of parameter? |
| 6 | Counters | Named consistently? Names conform to standard(s)? Appropriate language? Name reflects purpose of counter? |

Application – General Presentation / Functionality:

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| # | Item | Status/Comments |
| 1 | Code formatting | Appropriate use of indentation? Easily to read? |
| 2 | Internal Documentation | Present in code? Adds value? |
| 3 | Complexity of code segments | Easy to read? Multiple level of logic within individual lines |
| 4 | Set and Get Methods | Used appropriately to hide private variables? |
| 5 | Use of brackets / curly braces | Follows convention? |
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Data Access Layer (DAL) and Business Logic Layer (BLL):

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| # | Item | Status/Comments |
| 1 | Data Access Layer | A Data Access Layer has been applied? |
| 2 | Business Logic Layer | A Business Logic Layer has been applied? |
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Database – Table Structure:

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| # | Item | Status/Comments |
| 1 | Entity-Relationship structure | ER diagram or equivalent available? Entities correctly identified? Consistent approach and naming? Appropriate consideration of relationships? Relationship applied / correctly applied? |
| 2 | Complexity | Database is inherently complex in terms of number of tables? Database is inherently complex in terms of number of relationships? Database is inherently complex in terms of inter-relationship of tables? |
| 3 | Table Naming | Entity names reflect the purpose of each entity? Naming follows convention? |
| 4 | Lookup and Link tables | It is easy to identify lookup list and link (associative) tables from the naming convention and/or ER diagram? |
| 5 | Table size | Individual tables are abnormally large with respect to the number of fields? |

Database – Fields and Properties:

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| # | Item | Status/Comments |
| 1 | Field Names | Appropriate naming convention used? Names reflect purpose? No spaces or non-standard characters used in names? |
| 2 | Data Types | Appropriate data types have been used? Data types have been set consistently? |
| 3 | Primary Keys | Primary keys have been set? Most auto-increment? Some have a data type other than counting number – text/date/other? |
| 4 | Foreign Keys | The name of each Foreign Key corresponds with the name of its linked Primary Key – where possible? Foreign Keys have appropriate corresponding data types? |
| 5 | Field Properties | Field sizes and types are set correctly? Formatting has been applied appropriately? Input masks and validation rules have been set appropriately where applicable? |
| 6 | Indexes | Fields applicable to database searches have been indexed appropriately? Indexes have not been applied excessively? Indexes have been used to manage data duplication in fields other than the Primary Key? |

Application - Additional Items / Notes / Comments:

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| # | Item | Status/Comments |
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| Validation Officer Signature: |  | **Date:** |  |
| Project Manager Signature: |  | **Date:** |  |