

SCHOOL OF COMPUTING, ENGINEERING AND INFORMATION SCIENCES

**CM0721 – Implementation of Object Oriented Designs**

*Quick House Construction (QHC) – Order Management*

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# Introduction

Quick House Construction (QHC) Ltd requires an Order Management and Scheduling system. This document describes the analysis, design and development of a solution based on the requirement.

# Selecting an Appropriate Methodology

An AGILE methodology using object oriented techniques was chosen based on the need to produce a maintainable, quality product with industry standard documentation in C# within a short timeframe.

# Requirements Definition

## Use Case Diagrams

## Use Case Descriptors

## Implementation Order

A MoSCoW technique was used to prioritise the functionality identified by the use cases into an implementation order. The strict time constraint imposed by the project resulted in the time boxing identified by table 1.

|  |  |  |  |
| --- | --- | --- | --- |
| **Item** | **Use Case** | **MoSCoW** | **Release** |
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|  |  |  |  |
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|  |  |  |  |
|  |  |  |  |

*Table 1 – Implementation Order*

# Analysis and Design

## Class Diagrams

## Sequence Diagrams

## Interface Design

## Wire Frames

## Database Design

## Design Patterns (Domain Layer)

## Software Engineering Principals

## Presentation Patterns

# Implementation

## Test Plan

## Source Code

# Conclusion

# Appendix

## Individual Design – Eshani Eshani

## Individual Design – Jonathan Pickering

## Individual Design – Gary Storey