# CO1404 (CO1409) Coursework 21/22 - Marking Scheme

Below is a detailed breakdown of the marking scheme associated with the **Implementation** and **Report** aspects of the 21/22 CO1404 (CO1409) coursework.

## Implementation Criteria (60%)

### C.1 - Implementation of Application and Features (20 Marks)

**C.1.1. Features (15 Marks)**

You are awarded up to 5 marks for each feature: Add Credits, Order Pizza and Checkout.

| **Mark Boundary** |  |
| --- | --- |
| **0** | No sufficient attempt has made to implement feature |
| **1 - 2** | A fair attempt has been made but feature is missing core aspects or contains bugs that prevent it from working |
| **3 - 4** | A good attempt at implementing the feature has been made but it contains minor bug/s. |
| **5** | Excellent Implementation of application functionality contains no bugs |

#### C.1.2. Application Completeness (5 Marks)

You are awarded marks based on the completeness of your application.

| **Mark Boundary** |  |
| --- | --- |
| **0** | No Functions Implemented or application fails to run. |
| **1 - 2** | One Functionality has been Implemented |
| **3 - 4** | Two Features have been Implemented |
| **5** | All Features have been implemented |

### C.2 - Use of programming Concepts (20 marks)

| **Mark Boundary** |  |
| --- | --- |
| **0** | No attempt made. |
| **1 - 5** | Source code uses basic programming concepts (variables and If statements). |
| **6 - 10** | A failed attempt has been made to use some programming concepts. However, there are instances where concepts have been used ineffectively. |
| **11 - 15** | Very good application of a mixture of programming concepts in the majority of cases throughout the application. |
| **16 - 20** | Excellent application of a variety of programming concepts to solve problems logically throughout the entire source code. |

### C.3 - User Interface and Interactions (10 Marks)

| **Mark Boundary** |  |
| --- | --- |
| **0** | No attempt made. |
| **1 - 3** | Complicated user Interface, making the application difficult to use. |
| **4 - 6** | Creative user interface that prompts the user with various options. Displays some errors. |
| **7 - 10** | Creative, consistent, and Intuitive user interface throughout the application. User is presented with useful messages to guide them throughout the application. |

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### C.4 - Application of Coding Practices and Code Quality (10 Marks)

| **Mark Boundary** |  |
| --- | --- |
| **0** | No attempt made |
| **1 - 3** | Demonstrated a fair attempt at commenting code. Code is untidy and very difficult to read. A naming convention for variables, methods and functions naming convention has been followed in some areas but not all. |
| **4 - 6** | Demonstrated good application of coding practices. Variables, methods and functions follow somewhat strict naming conventions and are clear, succinct.  Code is somewhat readable and use of comments to describe complicated aspects shows a good of understanding of the code and logic. |
| **7 - 8** | Demonstrated very good application of coding practices. Most variables, methods and functions follow strict naming conventions and are clear, succinct. Code is readable and use of comments to describe complicated aspects shows a very good of understanding of the code and logic. |
| **9 -10** | Demonstrated excellent application of coding practices. All variables, methods and functions follow strict naming convention and are clear, succinct.  Code is very easy to readable and use of comments to describe complicated aspects shows a high level of understanding of the code and logic. |

## 

## Report (40%)

### C.5 - Questions and Answers (10 Marks)

| **Question** | **Maximum Potential Mark/s** |
| --- | --- |
| **A** | 1 |
| **B** | 1 |
| **C** | 1 |
| **D** | 2 |
| **E** | 5 |

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### C.6 - Documentation (15 Marks)

| **Mark Boundary** |  |
| --- | --- |
| **0** | No attempt Made |
| **1 - 4** | Documentation is missing or contains several variables and or methods. There are a lot of errors within the documentation (with respect to the code i.e types, parameters etc.) Descriptions are not clear or confusing. User guide lacks detail on how to use the application |
| **5 - 8** | Documentation is mostly complete. However, some variable and or method descriptions are not clear or confusing. There are also minor errors making the documentation inaccurate. User guide provides steps on how to use the application but is not supported with clear screenshots. |
| **9 - 11** | Documentation is good. Variable and method descriptions are clear. Documentation is accurate in relation to your code. User guide provides detailed instructions on how to use the application and is supported with clear screenshots |
| **12 - 15** | All variables and methods have been thoroughly documented. Variables and Methods have been given explicit suitable names, use the correct data type and description clearly indicates it use and is accurate. User guide is excellent. Instructions surrounding Interactions and functionality are succinct and includes screenshot to assist the user. User guide also includes description of error messages and how to resolve them. |

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### C.7 - Testing (5 Marks)

| **Mark Boundary** |  |
| --- | --- |
| **0** | No attempt made. |
| **1 - 2** | Application partially fulfils testing criteria. |
| **3 - 4** | Application fulfils testing criteria. However, there are some minor discrepancies such as accuracy. |
| **5** | Application fulfils all testing criteria. Values returned are accurate. |

### C.8 - Reflection (10 Marks)

| **Mark Boundary** |  |
| --- | --- |
| **0** | No attempt made. |
| **1 - 3** | Reflection lacks detail surrounding accomplishments, challenges, improvements. |
| **4 - 6** | Reflection in areas has details surrounding accomplishments, challenges and improvements. Some areas could be improved. Set short- and long-term goals. |
| **7 - 8** | Reflection contains details and context surrounding accomplishments, challenges and improvements throughout demonstrating good technical understanding. Long and short terms goals have been specified. |
| **9 - 10** | Reflection is clear and succinct. Accomplishments, challenges and improvements are discussed in detail throughout and demonstrates high technical understanding. Long- and short-term goals have been specified, and justified. Details have also been provided on actions that can be taken towards achieving the goals. |