# RS2

## Candidate Assessment

### Introduction

This evaluation project is to assess the ability of potential employees to develop part of a software program that allows user to search and select products they would eventually like to buy. The project will allow us to assess the necessary skills which potential recruits with RS2 should have.

### Task Description

This project will consist of a two templates: a login page and a product with the functionality of a grid/table holding the result set.

The user shall be able to search on the following fields; product name and product type. The product type will consist of a drop down list:

- Books
- Music
- Games

Next to the Product Type there will be a quantity box depicting the amount the user would like to buy of that particular product. Once the ADD button is clicked on, the searched product together with the quantity will be added to the table present on the same page.

As a system constraint, if the user tries to buy the same product twice an appropriate alert message should be displayed by the system notifying the user that the product/s has already been bought.

The following search fields shall be available to the user: -

| Field Name | Data Type | Field Length | Field Type |
|---|---|---|---|
| Product Name | Characters [A-Za-z] | 30 | Text Box |
| Product Type | Characters | N/A | Single selection list: -<br>- Books<br>- Music<br>- Games |

The product name field shall be validated on the client side for correctness. Visual feedback shall be given to the user if an incorrect entry is made.

When retrieving or querying data, make reference to the below database tables: -

| Product Table | | |
|---|---|---|
| **Field Name** | **Data Type** | **Description** |
| ID | Number | Primary Key |
| Name | Varchar2(32) | Product Name |
| Type | Varchar2(8) | Product Type |
| Description | Varchar2(100) | Product Description |

| User Table | | |
|---|---|---|
| **Field Name** | **Data Type** | **Description** |
| UserID | Number | Primary Key |
| LoginName | Varchar2(20) | User name |
| Password | Varchar2(20) | Password |

| Basket Table | | |
|---|---|---|
| **Field Name** | **Data Type** | **Description** |
| ID | Number | Primary Key |
| ProductID | Number | Foreign key to the Product table |
| UserID | Number | Foreign key to the User table |

**Task Implementation**

This task need to be implemented using your preferred software development technology, excluding MS frameworks.

Attention should be given to code separation, especially when it comes to JavaScript and Cascading Style Sheets.