**CMP6210**

**Cloud Computing 2020–2021**

Web-application report

Grocery shopping application

BSc (Hons) Computer Science

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# Aim

To implement a grocery shopping application to allow users to add items to their basket.

Objectives

. To create a database containing names of items, images and prices.

. Implement a feature where users can create accounts.

. To allow users to add items to the basket.

# Design database

Firstly, a server will be needed on AWS. This is to allow client requests to be handled. The database shall make use of tables – a table for products and a table for users.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| (Int)ID | (String)Name | (Currency)Price | (String)Image | (String)Category | (Int)Ratings ( /5) | (String)Description |
| 1 | Apple | 50p | … | Fruit&Veg | 4 | Ingredients/Allergies |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| (Int)ID | (String)Username | (String)Password | (String)Email | (Int)Phone No. |
| 1 | Admin | Oiejt48t | Admin@ | 0121 3459699 |
|  |  |  |  |  |
|  |  |  |  |  |

## Create Accounts

Click ‘signup’ (Transitions to signup page) – Enter Username – Enter Email – Enter Password – Enter phone number - Click ‘create account’(Transitions to ‘home’ page).

## Add Products

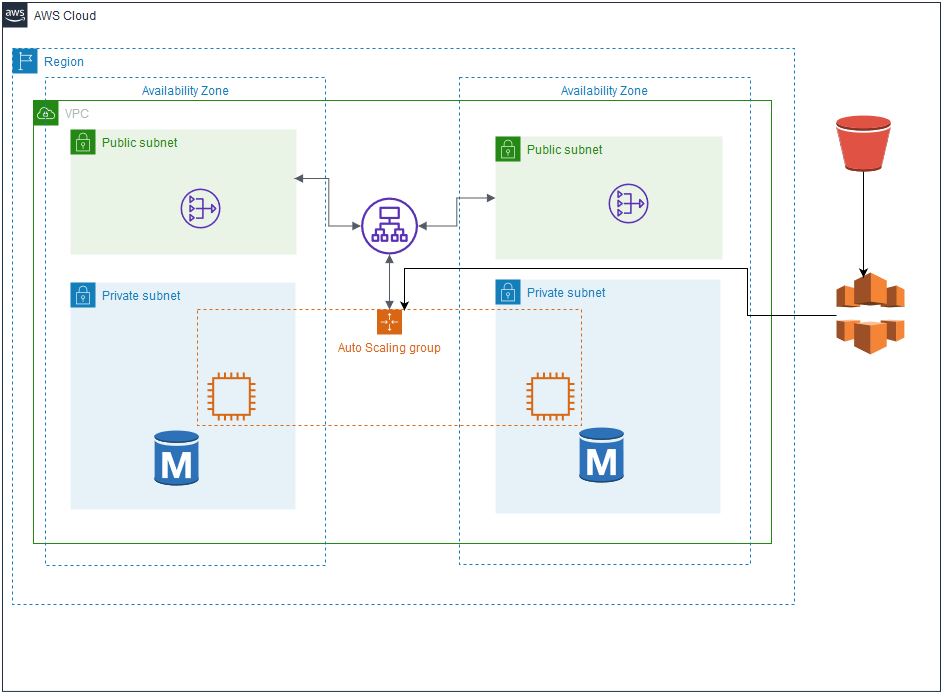
Only the admin can add products to the database.

(Same login process as users) After logging in, transitions to admin page with admin options such as adding products – Click ‘Add Products’ – Form appears to enter product details – Click ‘submit product’.

## Permissions

|  |  |
| --- | --- |
| User | Admin |
| Can add items to cart | Can add items to cart |
| Remove items from cart | Remove items from cart |
| Sign in/out | Sign in/out |
| View products | View products |
| Option to checkout | Option to checkout |
| Update account details | Update account details |
| Contact admin/store | Add/remove users |
| Choose payment method | Add/remove products |
|  | View user details |
|  | Update product details |

# AWS infrastructure diagram



# EC2

