PROGRAMMING TEST

PRODUCT SELECTION

Scenario

A groundbreaking broadcaster has decided to trial some new channels to its customers. A software engineering team, developing the customer website, is working on the story below.

The Account Management team has partnered with the Sales team that provides a service that offers channel subscriptions to certain customers, based on where they live.

> **Display customer's available products**
>
> As a **customer**, I want to select the **products** that are available to me, based on the **location** of my home.
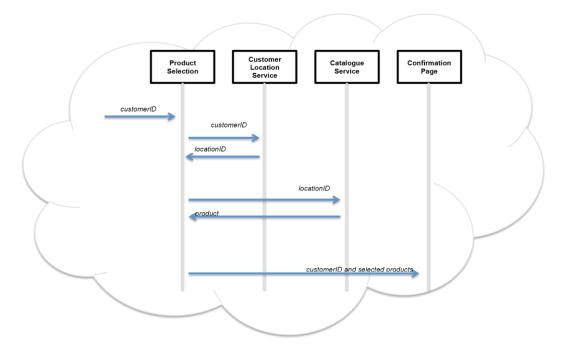
Instructions

You are required to provide an implementation of a catalogue service and a product selection web page. You may use any programming language/s you like.

Background

The following products been selected

News: -Political News	Sport Specials: -Chelsea News

When the user visits the product selection page, path variable to hold *customerID* will be present, which will hold a customer identifier.

The Customer Location Service will be called to get the customer's location.

The Catalogue Service will be called to get the catalogue of available products.

The customer will add products to their basket and checkout, submitting their selection to the confirmation page.

Acceptance Criteria

Product Selection Page

You are required to provide a web page so that

when the customer selects or unselects a *product*, the basket is updated to show the selected *products*. when the customer chooses to *checkout*, the customer is taken to the

confirmation page.

when the customer chooses to *checkout*, the customer's *customerID* and list of selected *products* are posted to the confirmation page.

Confirmation Page

A *Confirmation Page* will be available, which accepts the *customerID* and the selected *products*.

You are required to provide a stub of the *confirmation page*.

CustomerLocationService

A *CustomerLocationService* is available which will take the *customerID* as an input and return one of the following outputs.

Customer Service Output	Description
A location identifier	Customer is valid and a *locationID* is returned
Failure exception	There was a problem retrieving the customer information

You are required to provide a stub of the *CustomerLocationService* interface.

CatalogueService

The *locationID* returned from *CustomerLocationService* should be passed to a *CatalogueService*, which must return the following *products*.

Category	Product	Dependent on *locationID*
Sports	Arsenal TV	LONDON
Sports	Chelsea TV	LONDON
Sports	Liverpool TV	LIVERPOOL
News	News	
News	Sports News	

The *CatalogueService* will only return ArsenalTV and ChelseaTV if the *locationID* is LONDON.

The *CatalogueService* will only return LiverpoolTV if the *locationID* is LIVERPOOL.

The *CatalogueService* will always return News and Sports News.

You are required to provide an implementation of the *CatalogueService*.