LBG Reskill Project Specification

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# Introduction

The program is designed to give experience of the Software Development Life Cycle (SDLC) from Development, Build to Deploy. It uses a case study for an Estate Agent Management application that will be developed over a series of incremental projects that build on top of knowledge gain from each learning module. Each project is analogous to a Sprint.

A screenshot of a computer

Description automatically generated

Fig.1 - Project Plan

## Project 0

This is equivalent of the set-up sprint and will be part of the GIT exercises by setting up a GIT repository that will be used by rest of the projects for source and version management.

## Project 1

Create the front-end application.

## Project 2

Design and create a pipeline that will build and deploy the full application.

## Project 3

Create a Java Microservice and link to front end.

## Project 4

Design and create the GCP infrastructure and deploy the application for access from the WEB.

# The Estate Agent Case Study

The project revolves around an Estate Agent Management System with the following Features:

## Feature 1: Manage Buyer

### Scenario: Register Buyer

Given the new buyer with the given first name and surname does not exist

When a create buyer request is received with the given first name and surname

Then a new buyer record is created with a buyer ID

## Feature 2: Manage Seller

### Scenario: Register Seller

Given a seller with the given first name and surname does not exist

When a create seller request is received with the given first name and surname

Then a new seller record is created with a seller ID

## Feature 3: Manage Property

**NOTE:** A property can have the following status: **FORSALE**, **SOLD**, **WITHDRAWN**

### Scenario: Add Property

Given a seller exists for the new property

When a create property request for the given seller is received

Then the property is added to the catalogue

Then the property status is set to FORSALE

### Scenario: Find properties

When a Find properties request is received

Then a list of properties with the corresponding criteria is shown

### Scenario: Withdraw Property that is FORSALE

Given The required Property exists

Given The required Property is FORSALE

When a Withdrawn property request is received

Then property status is changed to WITHDRAWN

### Scenario: Resubmit Property that has been WITHDRAWN

Given The required Property exist

Given The required Property has been WITHDRAWN

When a Resubmit property request is received

Then property status is changed to FORSALE

### Scenario: Amend properties details

Given The required Property exist

Given The required Property is FORSALE

When an Amend property request is received

Then property details is updated

## Feature 4: Manage Bookings

Note: Viewing slot is every hour on the hour between 8am to 5pm every day including weekends and holidays

### Scenario: Make booking with Slot available

Given no active booking exists for the desired time slot for the property

Given the property status is FORSALE

Given the buyer is registered

When a viewing is requested

Then a booking is created for the buyer for the property at the given time slot

### Scenario: Make Booking - Time Slot not available

Given a booking already exists for the required timeslot for the given property

When a viewing is requested is made for that time slot

Then an error is shown to the user

### Scenario: Cancel Booking

Given a booking exists

When a cancel booking request is made

Then the booking is removed

# Minimum Viable Product (MVP)

## Manage Seller

* Register a new seller.
* Display all sellers.

## Manage Properties

* Add properties.
* Display all properties.
* Find and display properties with given search criteria on price, bedrooms, bathroom and garden.
* Withdraw a property.
* Resubmit a property.

## Manage Buyer

* Register new buyer.
* Display all buyers.