Challenges

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## The Estate Agent Case Study

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

### Feature: 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: 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: 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**NOTE**: A property can have the following status: FORSALE, SOLD, WITHDRAWN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When a Withdrawn property request is received  
Then property status is changed to WITHDRAWN

**Scenario: Resubmit Property that has been WITHDRAWN**  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Given The required Property has been WITHDRAWN  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: 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

## Minimal Viable Product

* **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

## The Dr Surgery Case Study

### Feature: As a patient I would like to register with Medical Surgery System so that I can make appointments to see a doctor and to provide medical information

**Scenario: patient not already register**  
Given that a patient with the same First Name, Surname, Date of Birth does not exist  
Given that the patient has provided First Name, Surname, Date of Birth, Address, Phone Number  
Given that the patient has created a password  
When a register patient request is made Then a new patient record is created with a new patient id  
Then a success message is returned to the patient with the id as their login username

**Scenario: patient is already register**  
Given that a patient with the same First Name, Surname, Date of Birth already exists  
When a register patient request is made  
Then an error message is returned

### Feature: As a patient I would like to log on to the Medical Surgery System so that I can make use of the Surgery Services

**Scenario: Successful Login**  
Given the login id is provided is found on the system  
Given the password is provided is correct for the login id  
When a patient logs in  
Then the patient is taken to the patient dashboard

**Scenario: Unsuccessful Login**  
Given either the login id is provided is not found on the system or the password provided is incorrect for the login id  
When a patient logs in  
Then an unsuccessful message is returned

### Feature: As a patient I would like to make a booking to see a doctor

**Scenario: appointment slot available**  
Given that a patient has logged in  
Given the time slot is available with a doctor  
When a booking request is made  
Then a new booking is created

**Scenario: cancelling an appointment**  
Given that a patient has logged in  
Given the appointment is in future  
When a cancel appointment is made  
Then that booking is deleted

### Feature: As a patient I would like to provide my blood pressure information so that my doctor can monitor my health

**Scenario: appointment slot available**  
Given that a patient has logged in  
Given the correct date, time and measurement is provided  
When a submit request is made  
Then a new monitoring record is created

### Feature: As a patient I would like to see my measurement history

**Scenario: Patient dashboard**  
Given that a patient has logged in  
When a measurement history request is made  
Then the measurement history for that patient is provided to the patient

### Feature: As an admin I would like to manage the doctors in my surgery

**Scenario: Add a doctor to system**  
Given the admin has logged in  
Given the new doctor first name, surname, date of birth does not exist  
When an add doctor request is made  
Then a new doctor record is created  
Then a login details for the new doctor is returned

**Scenario: Mark a doctor has left**  
Given the admin has logged in  
Given the doctor first name, surname, date of birth exists  
When Amend doctor to "left" is received  
Then that doctor is no longer available for booking  
Then that doctor is no longer able to access the system

### Feature: As an admin I would like to log in to the system so that I can manage my office functions

**Scenario: Successful Login**  
Given the login id is provided is found on the system  
Given the password is provided is correct for the login id  
When a admin logs in  
Then the admin is taken to the admin dashboard

**Scenario: Unsuccessful Login**  
Given either the login id is provided is not found on the system or the password provided is incorrect for the login id  
When an admin logs in  
Then an unsuccessful message is returned

### Feature: As an admin I would like to see a timetable of all doctors' appointments

**Scenario: View appointments**  
Given the admin has logged in  
When a view appointments is made  
Then all the appointments information is returned

### Feature: As a doctor I would like to log in to the system so that I can manage my appointments and patients

**Scenario: Successful Login**  
Given the login id is provided is found on the system  
Given the password is provided is correct for the login id  
When a doctor logs in  
Then the doctor is taken to the doctor dashboard

**Scenario: Unsuccessful Login**  
Given either the login id is provided is not found on the system or the password provided is incorrect for the login id  
When a doctor logs in  
Then an unsuccessful message is returned

### Feature: As a doctor I would like to see a timetable of all my appointments

**Scenario: View appointments**  
Given the doctor has logged in  
When a view appointments is made  
Then all the appointments information for that doctor is returned

### Feature: As a doctor I would like to see my patient measurement history

**Scenario: View appointments**  
Given the doctor has logged in  
Given that the patient id is provided  
When a view measurement request is made  
Then all that patient measurement history is return

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