



# .NET Core Azure Sprint-1 **Find Property System**

## Document Revision History

Date	Revision No.	Author	Summary of Changes
01-09-2020	1.0	Mallikharjuna Reddy	Case Study Created

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## INTRODUCTION

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This document outlines a project for the .NET Line of Technology (LOT). The project is to develop Find Property System. This document contains the requirements, work flow of the system and gives guidelines on how to build the functionality gradually in each of the course modules of the .NET LOT.

## SETUP CHECKLIST

### Minimum System Requirements

- Intel Pentium 4 and Windows 2010
- Memory 4 GB
- Internet Explorer 11.0 or higher / Chrome
- SQL Server 2014 or 2016 client and access to SQL Server 2014 or 2016 server
- Visual Studio 2019
- Visual Studio Code
- Git

## INSTRUCTIONS

- The code modules in the mini project should follow all the coding standards.

## PROBLEM STATEMENT

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### OBJECTIVE

Need to develop One stop Find Property System, so that customer can search a desired property for their needs. This application is mainly used by customers who want buy/sell/rent their properties.

### Abstract of the project:

**Find Property System** helps Customers to search for a property to buy/sell/rent out/tenant at desired location.

Owners who want to sell/rent out their property will create profile/register their details and can “Post Your Property”. Owners can post their property details with Price, Pictures, Location (Google maps) of their property and save.

Other side is Customers who are looking to buy a house / rented house in a particular location. These customers will create a profile with their interests and what they are looking (2BHK/1BHK).

After creating their profile system will populate some properties matching to their interest.

Whenever Owner Post their property, system should send notification/emails to similar looking customers. Same way other side also.

1) Owners: Can perform the following tasks:

- Registration/Profile Creation
- Post Property
- Edit Property

- Delete Property
- Show the list of users who shown interest/selected for their property
- Free Owners Can Post max 3 Properties
- Premium Owners Can Post Properties based on selected membership (Phase 2)

2) Customer Looking to Buy/ Tenants: Can perform the following tasks:

- Registration/Profile Creation
- Search for the Property and View Property Owner details like contact number
- List out all the properties which they interested
- Free Users, it will show 10 properties, if want more should be a paid member
- Premium members (Phase 2)

**Phase 1:** Create Client Application in Angular and Services using ASP.NET Core Web API.

## **MODULE LIST and MODULE DETAILS**

### **Modules:**

- Owners
- Customers who are looking to Buy
- Search Bar
- Property
- Profile

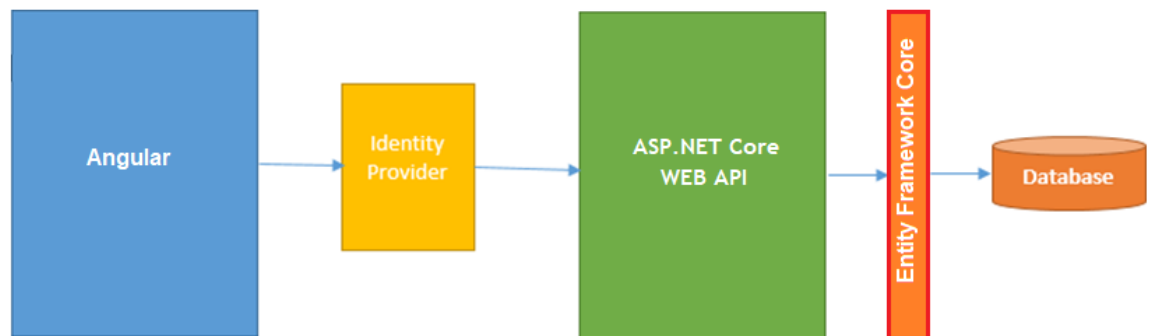
## PROJECT STRUCTURE

**Description:** Create below sample reference project structure, which will help to reuse most of module for Web application. You are allowed to bring your own project structure and project to achieve the requirement.

In this sprint you have to use

- Angular UI as the presentation layer
- ASP.NET Core WEB API to create services
- Entity Framework Core to interact with the database.

The project should have minimum target framework – .Net Core 3.1 for Core WEB API Services and Angular 10 for UI Design



### Design guidelines

- All the exceptions/errors to be captured and user friendly message to be displayed on the Common Error page.

## IMPLEMENTATION

### SUMMARY OF THE FUNCTIONALITY TO BE BUILT:

The participants need to develop the Find Property System by building the functionality incrementally in each of the course modules of .NET LOT.

Sr. No	Course	Duration	Functionality to be built
		(in PDs)	
1	Angular ASP.NET Core Web API Entity Framework Core SQL Server	5	Developing Presentation components (Angular), Business components (ASP.NET Core WEB API) and Data access components (Entity Framework Core)