National College of Ireland

PGDip in Cloud Computing

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Hotel Directory

Project in

Enterprise Frameworks



**Project Overview**

The aim of the project is to create a Hotel Directory Enterprise application. The Hotel Directory will have the functionality for searching hotels on the application and facility to list all hotels in a particular area. All users that access the application will have the facility to review each hotel and also create their own review of a particular hotel.

**Team Goals**

The plan from the start is to have all team members attempt all elements of the project and to gain a greater understanding of C# and .Net frameworks. The proposal is to document and record all work complete on the github repository for each member.

**Target Datasets**

The datasets are from NYC OpenData <https://nycopendata.socrata.com/> and the information is from a number of major cities across America and also including London.

* The information details Hotels and their relevant criteria
* Subsets of data for each major city

**Team Strategy**

The strategy employed from the start will be an iterative agile approach and using Entity Frameworks the direction taken will be:

* Create a model that will map to the chosen dataset and eventually an Asp.net view.
* Creation of a database
* Create a layer that will decide on what method to be chosen to parse and display the relevant data.
* Creating a DAL layer to query and return information from the database
* Creating a layer to handle query’s from the DAL layer and instruct the chosen display back to the user

**Typical User Interaction**

A user registers to the application and can complete the following interactions:

* Select the hotel details tab and choose from a selection of hotels
* Select the review tab to receive a list of current hotel review and users can also enter their own review of each hotel
* The search tab will allow the specific search of certain area’s contained within the database.

**Project Functionality**

The hotel dataset will be ingested by application and the information will returned to the user in a specific manner at the presentation layer. Key data will be chosen from the created models and layers of business logic will be generated as a result of the relevant data models.

The data created will be using the Entity Framework contained within the .Net environment. The programming language chosen will be C#.

The application will have a five layer structure for querying and manipulating data and the view will be displayed at the front end by ASP.Net web pages.