**School of Computing**

**Year 4 Project Proposal Form**

**SECTION A**

Project Title: Carzone deal predictor application

Student Name David O’Regan

ID Number 10331017 Stream: CA4

Staff Member Consulted (must be same person as in section B)

Darragh O’Brien

Project Description - Please see section D

**SECTION B** (to be completed by supervisor)

I approve this project and agree to act as supervisor for the above student(s)

Staff Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Staff Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**SECTION C (t**o be completed by Year 4 project coordinator)

Date Received\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Project Ref. No. \_\_\_\_\_\_\_\_\_\_\_\_\_

Verified Supervisor Signature YES NO

School Review Panel Approved YES NO

Please return form to the CA400 Project Coordinator.

**SECTION D**

Project Description:

This project will be broken into three major parts to achieve the project goal.

Project Goal: Be able to “predict” a good deal for major car brands on car zone.ie. Example - If the projected price for a BMW M3, 2006 with leather seats is 4500 Euro and one appears for 4000, the application will flag this car as a possibly good deal worth investigation.

Part 1: Web scraper

Using python(scrappy), the website carzone.ie will be scraped, harvesting the data to be used i.e. car makes, price, NCT, rims, seats, milage etc

Part 2: Data storage and Machine learning(Prediction)

The data will be stored in a webserver either in CSV form or Xml tables to be used. Then using some form of machine learning(Liner regression, neural network etc) we will predict the “projected price” for models of cars and subsequently “spot” deals that fall below projections.

Part 3: Showing data

The data will be displayed on an Android application for Android devices.