

# School of Computing

## Year 4 Project Proposal Form

### SECTION A

Project Title Car Deal Spotter  
Student Name Glen Devlin  
Student ID 12524303 Stream CASE 4  
Project Supervisor Name Darryl O'Brien

### SECTION B

#### General area covered by the project

Using the data scraped from Carzone.ie. Build a predictive model to predict how much a car should cost and use this to show the user cars that could be considered good deals. This Model would be made by using linear regression and machine learning. The front end for the project would be an Android application

#### Outline of the proposed project

- **Background:** This project Idea was posted by Dr. Darragh O'Brien from the DCU School of Computing.
- **Achievements:** The primary function of the app would be to show users cars that are better value for money. The users will mostly be consumers who are looking to purchase a car or by people looking to estimate how much their car is worth
- **Justification:** This program could be used by any users whenever they are looking to buy a new or used car. The app will retrieve good value cars from a database and the user will browse the cars on their android devices.

#### Programming language(s)

Java, PHP, XML, MySQL, HTML5

#### Programming tools / Tech stack

Eclipse, Android Studio, Database, Server, Android Device

#### Learning Challenges

The biggest learning challenge for this project for me would be the implementation of linear regression algorithms over the data to build a predictive model. I would also need to build a web-scraper to retrieve the data from Carzone.ie. I would have to learn PHP to connect to the server.

#### Hardware / software platform

The project will be developed on a Windows PC and on Android devices using the tools specified above. It will also use a remote server to store the database.

#### Special hardware / software requirements

The only additional device I would need would be an Android Device.