# Project Description & Marking Scheme – 60% of final grade

Working in teams of exactly **three**, design & develop a java application to showcase the programming skills which you have developed throughout your

Object Oriented Programming module.

* The app must consist of 3 distinct sections
* Each member of the team will take responsibility for the development of one of these sections
* All sections should then be combined in one complete seamless application
* The application should be related in some way to one of the triggers provided on Moodle
* A Marking Scheme for the assessment of the project is outlined below:

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| --- | --- | --- | --- | --- |
|  |  | **Demonstrate a comprehensive range of specialised knowledge in Object Oriented Programming** | **Transfer and apply theoretical concepts to a range of contexts and problem domains** | **Formulate responses (algorithms or classes) to well defined abstract problems** |
| **Module Curriculum** | GUI Objects | 2 Marks | 3 Marks |  |
| Event Handling | 2 Marks | 3 Marks |  |
| Arrays of Objects | 4 Marks | 6 Marks |  |
| ArrayLists | 4 Marks | 6 Marks |  |
| Reading from a file | 4 Marks | 6 Marks |  |
| Writing to a file | 4 Marks | 6 Marks |  |
| A Design Based on Sound OOP Principles (to include Polymorphism & Inheritance) | 5 Marks | 5 Marks | 5 Marks |
| **Transferable Programming Skills** | The application executes as expected |  |  | 5 Marks |
| The application is free of syntax and logic errors |  |  | 8 Marks |
| Evidence of innovative ideas and functionality |  |  | 5 Marks |
| Classes, objects and variables adhere to appropriate naming conventions |  |  | 5 Marks |
| All classes corrected commented with all necessary code referenced appropriately |  |  | 7 Marks |
| All classes and methods correctly indented and formatted |  |  | 5 Marks |

Triggers:

<https://www.youtube.com/watch?v=vQIvDTmAemQ>

<https://www.youtube.com/watch?v=yrjT8m0hcKU>

<https://blog.politics.ox.ac.uk/wp-content/uploads/2015/10/Logo_brexit_new_size2.png>

<https://www.rte.ie/culture/2018/0731/982184-housing-crisis-dublin-i-love-you-but-youre-bringing-me-down/>