# **Software Development 2011 Unit 4 – Outcome 1 (60 marks)**

**Description**: apply stages of the problem-solving methodology to produce a solution for use on a mobile device, which takes into account technical and legal

requirements.

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| Requirements | Allocated Marks | | **Comments (if necessary)** |
| **Design of the software solution** |  | **Total: 7** |  |
| * Factors affecting the design of the software solution. |  | / 2 |
| * Pseudo-code algorithm showing main processing tasks. |  | / 3 |
| * Data table / dictionary |  | / 2 |
| **Creation of the software solution** |  | **Total: 34** |
| * Use of complex data structures, searching or sorting techniques. |  | / 5 |  |
| * Validation design and implementation. |  | / 5 |  |
| * Use of standard naming and coding conventions. |  | / 2 |
| * Internal documentation that is clear, readable and well placed. |  | / 3 |
| * Intuitive user interface and navigation. |  | / 8 |
| * Efficiency and effectiveness with which the program functions. |  | / 2 |
| * Error free code. |  | / 4 |
| * Solution to problem/s. |  | / 5 |
| **Testing the software module** |  | **Total: 4** |
| * Design of appropriate testing procedures. |  | / 2 |
| * Results of testing procedures. |  | / 2 |
| **User documentation, security and legal issues** |  | **Total: 15** |
| * Content and clarity of on-screen user’s guide specifically tailored for the users within organisation. |  | / 4 |
| * Propose methods for addressing security concerns. |  | / 5 |
| * Discussion of legal issues. |  | / 6 |
| **Total :** |  | **/ 60** |