**BCS HIGHER EDUCATION QUALIFICATIONS**

**PROJECT PROPOSAL**

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| **Candidate Name:** | **Anuradha Wishmantha** |

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| **Membership No:** |  |

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| **Course Provider:**  (if applicable) | **ESOFT Computer Studies (Pvt) Ltd.** |

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| **Project Level:**  (Tick as appropriate) | **Diploma** |  | **Professional Graduate Diploma** |  |

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| **Project Title:** | **Warehouse Management System** |

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| **Proposal Submission Date:** | **10 September 2011** |

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| **Authenticator:**  (Tick as appropriate) | **BCS Professional Member (i.e. MBCS/FBCS)** (CV not required) |  |
|  | **Authenticator’s Membership No.:** | |
|  | **IT Professional (e.g. Manager, Supervisor or Tutor) with a minimum of 5 years relevant work experience.**  **CV enclosed** (mandatory) |  |
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| **Planned Project Submission date:** | **October 2011** |  | **April 2012** |  |

**NOTE:** Please complete your proposal in the relevant section overleaf.

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| **Background**  ‘RR Constructions (Pvt.) Ltd’ is a construction company located in Colombo with its warehouses located island wide. They undertake many construction projects, ranging from buildings, roads to harbours. Company’s projects are mostly handled using heavy equipment. Warehouse’s main purpose is to provide necessary spares to these heavy equipment and other necessities required for the project. The main warehouse’s storekeeper will be assisting me for the rest of the project, describing the processes & providing user requirements.  **Existing System**  Warehouses currently carries out all of its operations using a manual file based system, where the stock keepers keep track of incoming and outgoing items. Following are the functions carried out in the existing system and the problems they face:   * A GRN Good received note is hand written in a GRN Book when an item arrives at the warehouse. A copy of the note is then sent to the account department which is situated in Colombo for financial activities. Same process is carried out when an item is issued to a particular project. * Store keepers are unable to keep track of the items received, and quantity is not updated. No proper bin locations. * Redundancy – There were instances where same data get duplicated and maintained in a various places. * Stock levels are hard to maintain. Store keepers will not know when they have to re-order stock. Excess of stock is also a main problem. * Since Warehouses and Accounts department are not connected, accounts department finds it difficult to calculate the current stock value of items, thus making the system inefficient and giving space for fraudulent activities.   **Objectives**  Organization realizes the need of automated solution with core functionalities, which would minimize above mentioned problems to a greater extent. The proposed system, ‘*Warehouse Management System’* is expected to make the system more efficient and faster by;   * Connecting the Accounts Dept. & Warehouses Island wide, to allow real-time processing of data. * Increase efficiency by printing GRN & Issue reports which are easily generated using the computer. * A stock control system with Item master files, which keeps track of quantity on hand and the good received notes and issue notes associated with each item. * A fixed assets management system enabling the stock keepers to locate heavy equipment placed island wide and their engine, service and other details. * Validate all entries to minimize data redundancy. * Help administrative decision making by providing them sufficient information.   **Scope**  The new system will be implemented on several networked computers, with a centralized database. All warehouses are capable of real-time processing since they are all connected with the accounts department. A local copy of the database will also be held at every warehouse, in case of communication error. The proposed system is intended to cover the following functional aspects:   * Inventory Management   -Adding, editing, deleting, updating & instant search for inventory items.  -Control re-order levels and quantity on hand  -Get a full detailed analysis of current stock items   * Report generation   -Print GRNs and Issue Notes -Print editable spreadsheets for convenience of store keepers  -Print reports on fixed assets and it’s details   * Fixed Assets Management   - Manages all the heavy equipment located island wide and their details.  **Deliverables**   * Requirements specification – SRS is produced with the aid of high-level use-case diagram * Design document – contains ER-Diagram, use case diagrams, activity diagrams etc. * Executable Code * Test plan – mostly black box testing approach * Test report – report of unit testing, system testing & user acceptance testing * Maintenance plan –Consists of periodic test plan and checks for requirement changes   **Time schedule and the work plan**   |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Weeks** | **Wk 37 & 38 - 2011** | **Wk 39 & 40 - 2011** | **Wk 41 & 42 - 2011** | **Wk 43 & 44 - 2011** | **Wk 45& 46 - 2011** | **Wk 47 & 48 - 2011** | **Wk 49 & 50 - 2011** | **Wk 51 & 52 - 2011** | **Wk 01 & 02 - 2012** | **Wk 03 & 04 - 2012** | **Wk 05 & 06 - 2012** | | **Task** |  |  |  |  |  |  |  |  |  |  |  | | Investigation and Analysis |  |  |  |  |  |  |  |  |  |  |  | | Design & Development |  |  |  |  |  |  |  |  |  |  |  | | Testing |  |  |  |  |  |  |  |  |  |  |  | | Training |  |  |  |  |  |  |  |  |  |  |  | | Implementation |  |  |  |  |  |  |  |  |  |  |  | | Final Documentation |  |  |  |  |  |  |  |  |  |  |  | | Final Application & System Maintenance |  |  |  |  |  |  |  |  |  |  |  |   **System Requirements**   * Java * MySQL database server   **Technology to be embraced:**   * JavaSE * SQL * Jasper |

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| **Examiners Comments** (to be completed by the Examiner)  The Examiners note that the revised submission now exceeds the recommended word count by over 40%. This is poor practice, and should not be repeated.  They thank the candidate for the clarification provided. They believe that the proposal now describes sufficient scope for the purposes of the Professional Project at the level chosen; but advise the candidate to liaise with the authenticator and / or the course provider to ensure that the correct level is reached and maintained. | | | |
| **Proposal Approved** |  | **Re-submit Proposal** |  |
| **Date completed: 14 November 2011** | | | |