Assessment Notification

**Course: 11 Information Processes and Technology**

**Task Topic: Task 3 Information Skills and Systems Year: 2018**

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| **Task Details:** |
| **Assessment Task No.3 Due Date: Term 3 Wk 6 (31 Aug 2018) Weighting: 35%** | |
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| **Submission Instructions** |
| * Students must hand in a digital copy of their documents and programming code. * The School Assessment policy will be followed for students handing in late work, or missing, assessment tasks. * All work must be submitted, despite how late it may be. |
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| **Outcomes being assessed** |
| |  |  | | --- | --- | | **P1.1** | Describes the nature of information processes and information technology. | | **P1.2** | Classifies the functions and operations of information processes and information technology. | | **P2.1** | Identifies the information processes within an information system. | | **P3.1** | Identifies social and ethical issues. | | **P4.1** | Describes the historical development of information systems and relates these to current and emerging technologies. | |
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| **Task Description** |
| **Overview:**  Dodgy Insurance Company of Australia Pty Ltd is a brand new Car Insurance company. They have come to you to create a new Insurance Quote system using a Spreadsheet Tool – e.g. MS Excel or Google Spreadsheet – using Macros  Firstly, you need to create a **Requirements Document** that must include:   * A Statement of Needs * A Requirements List (which you will use in your Evaluation) * Social and Ethical Issues related to this system   Secondly, create a **Design Document** which must include:   * Context and Data Flow Diagrams * Site Map * Storyboard/Screen Designs * Data Dictionary   Thirdly, you will **create the System** using a **Spreadsheet Tool** (such as MS Excel or Google Sheets) as follows:  **The Dodgy Insurance Quote System** must have these features:   * **Main Menu Screen** * For Admin and Standard Users:   + **Quote Entry Screen**   + **Quote Summary Screen**   + **Formal Quotation Screen** * For Admin Users only   + **Maintenance Screens** – Data Store and Lookup Values   + **Premiums Analysis** for Administrators of Dodgy Insurance   Finally you will write a **Critical Evaluation** of your System, cross referencing the initial Requirements list and evaluating how the documentation and the system satisfied |
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| **In order to undertake this task you need to** : |
| **Requirements Document**   * A clear list of Customer Needs * A List of Requirements identifying success criteria   + Being careful to differentiate between a Need and a Requirement * A Context and Data Flow Diagrams for the system * A Data Dictionary for each of the Input, Calculated and Output field to be used.   + A separate table for each Key Entity to help organize the data in relevant areas – e.g. Customer Data, Car Data, Quote Data * Social and Ethical Issues related to this system   + Social Issues – security, backup/recovery, data integrity/accuracy, etc   + Ethical Issues – privacy, bias of data, etc.   **Design Document** which must include:   * Context and Data Flow Diagrams for the Dodgy Car Insurance Quotation System * Site Map that shows the links between the different screens   + From an Administrators and Standard User view point * Storyboard/Screen Designs * Data Dictionary   + Identify the Key Entities and their attributes – e.g. Car, Driver, Quotation, Lookups     - Quotation Entity involves calculations       * Identify fields that result from calculations – identify the source data involved in the calculation (Write the formula)   + Based on levels of Risk, which you calculate using the fields captured in the Quote Entry Screen, you will generate a Quote Summary Screen with a Summary of the Data Entry fields and a calculated Annual Premium (with Quarterly and Monthly options).     - A Table of Base Premiums – based on a standard Sedan car with a range of Engine Sizes     - Male vs Female risk a value or factor (multiplier) to apply to the base premium     - Age Risk – range of ages and a value or a factor to apply to the base premium depending on age.     - Location Risk – A value or factor (multiplier) to apply to the base premium that may apply to certain Suburb/Town/Cities where there are higher risks.   The **Dodgy Insurance Quote System** must have these features:   * **Main Menu Screen**   + A Main Menu Screen with a Company Logo (you create)     - Login processing – user and password – returning a Role of: Admin or Standard     - Navigation to the following screens: (**Admin and Standard User**)       * Quote Entry       * Quote Summary       * Formal Quote Printing     - Additional Navigation to the following screens as **Admin User** only       * Data Store sheet maintenance       * Lookup Values maintenance       * Premium Analysis Reporting Screens * **Quote Entry Screen**   + A Quote Entry Screen that captures information about     - The Insured – Gender, DOB, Prior Claims, Address (Street, Suburb/Town/City, Postcode, State)     - The Vehicle – Make, Model, Engine Size, Type of Car (Sports, Sedan, 4WD, etc)     - Date of Quote,     - A auto-generated unique incrementing **Quote Reference Number** (e.g. 1,2,3)   + At this stage, when submitting the PROVISIONAL QUOTE is requested, you are taken to the Quote Summary Screen to display calculated premiums.   + You may choose to Cancel the Quote at this stage, all the data entry fields are then cleared for the next Quote Entry.   + **Each quote** with its Data Entry Fields **must be stored in the Workbook** as a row in a separate "datastore" spreadsheet. * **Quote Summary Screen**   + If the Customer accepts the Premium, then you must dynamically create a formatted **formal printable (print preview) Quotation Screen**     - Optionally, as an extension, allow entry of a previous Quote Reference Number, display the details for printing.   + Based on levels of Risk, which you calculate using the fields captured in the Quote Entry Screen, you will generate a Quote Summary Screen with a Summary of the Data Entry fields and a calculated Annual Premium (with Quarterly and Monthly options).     - A Table of Base Premiums – based on a standard Sedan car with a range of Engine Sizes     - Male vs Female risk a value or factor (multiplier) to apply to the base premium     - Age Risk – range of ages and a value or a factor to apply to the base premium depending on age.     - Location Risk – A value or factor (multiplier) to apply to the base premium that may apply to certain Suburb/Town/Cities where there are higher risks.   + You may at this stage choose to Cancel the Quote, Purchase the Quote, or Amend the Quote     - If Purchased, the Quote details are saved with a Completed status and may not be changed. You are then taken to the Formal Printable Quotation Screen.     - If Amend is requested, the Quote details are not saved, and you are taken back to the Quote Entry Screen * **Quote Persistent Data Storage**   + Each quote with its Data Entry Fields must be stored in the Workbook in a separate spreadsheet. * **Formal Printable Quotation Screen**   + If the Customer accepts the Premium, then you must dynamically create a formatted formal printable Quotation Screen – including Logo and Quote details     - Note: ability PRINT PREVIEW is all that is required, actual hardcopy not required   + Input to this screen is the Quote Reference Number – for current quote   + **EXTENSION TASK:**      - An enquiry may be made on a Quote previously given, need the ability to retrieve that quote and print     - Allow entry of a Quote Reference for an older quote stored in data storage sheet to be entered and all the quote details retrieved and displayed for printing. * **Analysis of Premiums** for Managers of Dodgy Insurance –   + Choose 2 different types of charts and different fields to analyse.   + Justify your choices.   + Perform this in the requirements document.   **Critical Evaluation**   * Create an Evaluation Document * Identify the Key Success Criteria and how well they have been achieved   + Using the Requirements List and Success Criteria, evaluate how well the System satisfies them – discussing areas where they could have been done better. * Identify areas for future improvements or enhancements.   + What features or functionality could you add in the future that will enhance the product and justify why that would be useful in regards to the Customer Needs. |
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| **Task Rubrics** |
| Assessment Task 3 IPT - Marking Criteria   |  |  |  | | --- | --- | --- | | **Requirement** | **Indicators** | **Mark Range** | | Present a Requirements Document identifying the Needs and the Requirements | Customer Needs clearly and comprehensively identified  System Requirements List that covers all the Needs, and clearly identifying Success Criteria  Comprehensive explanation of Social and Ethical Issues related to this system. | 7 – 10 | | Customer Needs have been mostly identified  Identifying System Requirements List that covers most of Customer Needs. Some Success Criteria identified  Provided a reasonably detailed Context Diagram and Dataflow Diagrams for the system.  Good explanation of Social and Ethical Issues related to this system. | 4 – 7 | | Some attempt may be made at identifying Customer Needs and Requirements  Some or no attempt at an information systems diagram, context diagram and data flow diagrams  Some attempt at an explanation of Social and Ethical Issues related to this system. | 0 – 4 | | Present a Design Document | **Graphical Design**   * Clearly identify colours to be used using Hex RGB colours * A well designed logo that captures the essence of the company and its business, using appropriate colours   **Systems Design**   * A comprehensive Context and Data Flow Diagrams that reflects a comprehensive understanding of the scenario and all the main information processes * Site Map showing all navigation paths * Story Board /Screen Designs clearly and in comprehensive detail showing fields, graphical elements, and navigation elements.   **Data Design**   * A detailed Data Dictionary identifies all the Key Data Entities (one dictionary for each one) and the all the features of the data for each entity being used by the system. | 7 – 10 | | **Graphical Design**   * identify most colours to be used using Hex RGB colours * A logo that captures most of the essence of the company and its business, using appropriate colours   **System Design**   * Context and Data Flow Diagrams that reflects a comprehensive understanding of the scenario and all the main information processes * Site Map showing most navigation paths * Story Board /Screen Designs in good detail showing fields, graphical elements, and navigation elements.   **Data Design**   * A Data Dictionary identifies most of the Key Data Entities (one dictionary for each one) and most of the features of the data for each entity being used by the system. | 4 – 7 | | **Graphical Design**   * Some or No attempt may be made to create a logo or color palette   **System Design**   * Some or no attempt at   + Context and Data Flow Diagrams   + Site Map showing some navigation paths   + Story Board /Screen Designs   **Data Design**   * Some or no attempt at identifying data elements in a dictionary | 0 – 4 | | Develop Application that satisfies requirements  Critically Evaluates the success of the project | Extension feature has been correctly implemented. | 1 | | Create a working application using a software tool as required that covers all the requirements.  Creates a Critical Evaluation that comprehensively covers the how successfully requirements were satisfied and identifies features for future development | 7 – 9 | | Creates an Application that mostly works and covers most of the requirements  Creates a Critical Evaluation that explains how the requirements are met and discusses some areas for future enhancements | 4 – 7 | | Creates an Application that has some working features and satisfy some of the requirements  Some or no attempt at a critical evaluation | 0 – 4 | | **Total Marks** | | **/ 30** | |