BTEC Assignment Brief

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| Qualification | Pearson BTEC Level 3 National Extended Diploma in Computing |
| Unit or Component number and title | 23 |
| Learning aim(s)  (For NQF/RQF only) | B and C |
| Assignment title | Assignment 2- Unit 23 - (2023-24) - Bristol hair and beauty booking system |
| Assessor | Enter Name of Assessor |
| Hand out date | Nov 20, 2023 |
| Hand in deadline | Jan 08, 2024 |
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| Vocational Scenario or Context | Bristol City College is looking for some help from some of the top students in the computing department. Your skills in systems analysis and design have been recognised      Hair and beauty require a new online booking system. They have requested you meet with the boss of the Salon and other key stakeholders and question her about exactly what she needs and find out the user requirements. The stakeholders are interested in your progress and will come and check at regular intervals.      You have a 1 to 2 months of time to produce a prototype. |
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| Task 1 | You are now required to develop a solution for the Bristol Hair and Beauty. You can work in a team of 4 or 5 people (list in your report who you worked with) but you must each individually produce your own report and project plan. Your project manager requires from this report        Define the problem statement (you can discuss this as a team) by providing    A problem statement    Carry out a Strengths, Weaknesses, Opportunities, and Threats (SWOT) analysis        Then as a team you must carry out requirements gathering, from key stakeholders, and analysis, however in your individual reports you must show evidence of these documents and your analysis    Create a questionnaire for this interview so that you can understand what are the key features (User Interface, database etc) and the nice to have features    Arrange a meeting with the hair salon manager and ask them some of these questions. With your team make sure you have understood all the requirements by discussing them in detail (before you start the poker planning, next stage)      A project plan where you need to plan the project (as a team) using SCRUM poker planning and using Trello (You will need to take screen shots of this completed board as evidence of your planning)    Using the information gathered from before break the key features down into stories    It must show everything related to the project requirements gathering, design, analysis, implementation and testing of each feature    Each story must not take more than a day maximum.    Plan all the stories into 4, 1 week sprints.        Along with evidence of the poker planning, evaluate what kind of systems methodology you are going to use for this project Waterfall, Agile, Spiral, Rapid Prototyping. Say why you chose one over the others.        Arrange a meeting with your project manager in your team to discuss why you chose to use these tools, systems methodology etc. Document this so you can show what feedback you were given.        Design Using Data flow diagrams and Entity Relationship diagrams plan out the system. What are the main entities What data stores are needed Provide and evaluation of why you are using these design tools and not some other ones you know about. For this evaluation you may want to discuss how other projects have been successful or not with certain tools and techniques.        Then using Use Case Diagrams and UML diagrams plan out what the main functions of the system are and how the code might look e.g. Food class, customer details class, payment class.        For both these stages in design provide an evaluation of why you are using these design tools.        A visual design is also required that should show how you want your booking system to look. Draw at least 3 screen designs.      At the end of the project (you will build a version of this in class so you have something to compare it to) you must then evaluate    How well did your project meet the requirements    How much testing was done in your project    What were the technological constraints    Did you choose the correct features to develop first    How well did you work together as a team, what issues were there, what would you do differently next time    Did you manage your time and planning well    Were your investigation techniques thorough enough    What was your own behaviour and the impact on the systems outcome, including professionalism, etiquette, supportive of others, timely and appropriate leadership, accountability. |
| Checklist of evidence required | Evidence of trello or SCRUM board showing the project timescale with stories organised into 4, 1 week sprints Questionnaire and evidence of requirements gathering    Discussion of how the SCRUM planning went why you decided on certain stories and how long they would take Evaluation of why you chose certain systems methodology tools (DFD, ERD, UML, USE CASE)    Evaluation of why you chose certain systems methodology over others (Agile etc) |
| Criteria covered by this task: | |
| Unit/Criteria reference | To achieve the criteria, you must show that you are able to: |
| 23 / P3 | Define a problem statement for an identified scenario. |
| 23 / P4 | Develop a solution to a computing problem, using appropriate systems methodologies. |
| 23 / P5 | Review the solution to a computing problem, considering feedback from others and identifying possible improvements |
| 23 / M2 | Justify the choice of systems methodology tools and techniques used to provide a solution to a computing problem. |
| 23 / M3 | Assess potential improvements to the solution in relation to the problem statement. |
| 23 / D2 | Evaluate the process of applying a systems methodology to a computing problem in order to develop a proposed solution. |
| 23 / D3 | Demonstrate individual responsibility and effective self-management in the application and review of systems methodologies to identify and develop a solution to a problem. |
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| Sources of information to support you with this Assignment | Example of how to write up project httpscityofbristol-my.sharepoint.comwgpersonalbsmith\_cityofbristol\_ac\_ukEeRIIWK2gztNhjZiQrJaSskBB2nS\_ySiUVKRGPGd4qR-\_weRrVMCb    Provides a good overview of system methodology httpwww.tutorialspoint.comsdlcsdlc\_overview.htm    Provides an overview of system analysis and design methodology httpswww.techopedia.comdefinition3983structured-systems-analysis-and-design-method-ssadm    Access to various system analysis presentations httpwww.slideshare.netmrmwood39-techniques-and-tools-for-systems-development | | |
| Other assessment materials attached to this Assignment Brief | *e.g. work sheets, risk assessments, case study* | | |
| **FOR L1/2 FIRSTS ONLY:** If you have not achieved the Level 2 criteria, your work will be assessed to determine if the following Level 1 criteria have been met. | | | |
| To achieve the criteria, you must show that you are able to: | | Unit | Criterion reference |
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