Evaluation of designs

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| **Assessment criteria** |
| Develops a **comprehensive set of criteria for evaluating alternative design** **ideas** and the efficiency and effectiveness of the software solution. |
| **Documents comprehensively evidence of critical and creative thinking** **through** the connection of ideas, the generation of design ideas and solution requirements and **the justification of preferred designs**. |

You are to justify the selection of a preferred design based on the following criteria:

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| Criterion | Design A | | | Design B | | | Justification |
| **H** | **M** | **L** | **H** | **M** | **L** |
| **Ease of use** |  |  |  |  |  |  | *What features of the UI contribute to the ease-of-use. There will be several of these as they will reflect the main way in which the functional requirements are realized in each design.*   * The interface of design B is more simplistic for entering data. * The use of check boxes, consistent text, graphical icons and colors help to improve the ease of use. |
| **Functionality** |  |  |  |  |  |  | *Ideally both designs should fully satisfy the FRs of the SRS. If the project was complex enough to justify a Spiral Model, then there could be a difference in the FRs between designs.*     * Both designs fully satisfy the functional requirements listed in the SRS, being a working program. |
| **Constraints** |  |  |  |  |  |  | *Again, both designs would be expected to satisfy the constraints in the SRS however, as an example one design may implement a lower level of security such as encryption to reduce cost and development time.*   * Both designs will feature an input and output screen. * Data will be accurately and neatly displayed |
| **Scalability** |  |  |  |  |  |  | *Will aspects of the design such as features of the UI, file storage or transfer support the ability of the solution to cope with more data in the future; If so, how?*   * The UI of the summary page in design B allows for an increase in the number of trips able to be displayed, whereas design A uses a simplified summary screen |
| **Implementation time** |  |  |  |  |  |  | *Will one design be quicker to develop due to reduced features. This may conflict with aspects such as Ease-of-use as a result.*   * The advanced summary feature highlighted in design A, will take a longer time to be implemented in the program. * The simplification and reduced UI features of design B will allow for a quicker development time. |
| **Cost of development** |  |  |  |  |  |  | *Will there be a budgetary difference between the designs due to different specifications?*   * Both designs will use no budget. |
| **Maintenance** |  |  |  |  |  |  | *This will be expressed in terms of ease and cost. What features of the code will support this? Internal documentation.*   * The use of internal documentation and camelCase in variable names will allow for easier maintenance in the future. |
| **Training** |  |  |  |  |  |  | *What level of training will be required for staff to use the solution?*   * Both designs will provide an intuitive interface eliminating the need for any sort of training. |
| **Compatibility** |  |  |  |  |  |  | *Is the design compatible with existing systems or will one require additional hardware or software?*   * Both designs are compatible with the latest version of iOS on an iPhone. * Possible port to android can be planned in future. |