This is your personal document for keeping track of your progress in the SAT project.

You will need to keep track of your thought processes, decisions, justifications, and any changes to your SAT project in this blog.

Please make at least one entry **every week**.

Remember it is crucial that you keep **backups** of your work. We suggest that you keep a backup on removable media (e.g. a USB flash drive), in the cloud, and here.

Throughout the SAT, you are instructed to **upload your work in progress to this journal** for observation every week.

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| **Identification of need or opportunity** |
| * In preparation for the SAT students will need to be able to identify a real-world need or opportunity that can be developed as a software solution for a client. * Students are encouraged to document their ideas in order to convince their teacher that they will be able to develop a software solution. |
| **Unit 3 Weeks 4 to 6** *(Type in the date for each entry below.)*   |  |  | | --- | --- | | **Date** | **Notes about identifying a need or opportunity, and finding a suitable client** | | 1/3/23 | Sat client teacher, cousin, dad, friend or neigborgh | | 13/3/23 | Sat project plan | | 20/3/23 | Sat project project plan like how to manage the code (using github and stuff) |   *(Add more rows as needed.)* |

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| **Key knowledge** | **Key skills** | **SAT Criterion** | **SAT Indicators** |
| * features of project management using Gantt charts, including the identification and sequencing of tasks, time allocation, dependencies, milestones and critical path | * create, monitor and modify project plans using software | **1. Skills in project management.** | * Prepares a Gantt chart using software that documents all stages and activities of the problem-solving methodology for U3 O2 and U4 O1. * Documents all the relevant tasks, sequencing, time allocations, milestones, dependencies and critical path. |
| **Unit 3 Weeks 7 to 9** *(Type in the date for each entry below.)*   |  |  | | --- | --- | | **Date** | **Notes about creating your project plan - e.g. decisions you made.** | | 28/3/23 | Gantt chart still kinda confused on dates and requirements but ive kinda done a sketch | | 29/3/23 | Ive set some tasks up | | 1/4/23 | Add a couplee more tasks |   *(Add more rows as needed.)* | | | |

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| **Key knowledge** | **Key skills** | **SAT Criterion** | **SAT Indicators** |
| * development model approaches, including agile, spiral and waterfall | * select and justify the use of an appropriate development model | **2. Skills in the selection and justification of a development model.** | * Documents the use of the selected development model approach. * Documents the justification of the selected development model approach. |
| **Unit 3 Weeks 7 to 9** *(Type in the date for each entry below.)*   |  |  | | --- | --- | | **Date** | **Notes about selecting a development model - e.g. decisions you made, research you did.** | | 3/4/23 | Finished off the tasks template | | 5/4/23 | Now ticking off as I go | | 6/4/23 | Organizing it so it looks clean and tidy and orderd and readble |   *(Add more rows as needed.)* | | | |

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| **Key knowledge** | **Key skills** | **SAT Criterion** | **SAT Indicators** |
| * techniques for collecting data to determine needs and requirements, including interviews, observation, reports and surveys * functional and non-functional requirements * constraints that influence solutions, including economic, legal, social, technical and usability * factors that determine the scope of solutions * features and purposes of software requirement specifications * tools and techniques for depicting the interfaces between solutions, users and networks, including use case diagrams created using UML * features of context diagrams and data flow diagrams * goals and objectives of organisations and information systems * key legal requirements relating to the ownership and privacy of data and information | * select a range of methods to collect and interpret data for analysis * apply analysis tools and techniques to determine solution requirements, constraints and scope * document an analysis as a software requirements specification | **3. Skills in using analytical tools and techniques.** | * Documents data for analysis using appropriate data collection methods. * Uses all the appropriate features of the selected analytical tools. * Depicts all the relationships between data, users and digital systems. * Documents evidence of critical and creative thinking through the identification, clarification and critical analysis of the data collected. |
| **4. Skills in documenting a software requirements specification.** | * Documents the functional and non-functional requirements, constraints and scope as part of the SRS. * Documents the technical environment and the intended audience of the solution as part of the SRS. * Documents evidence of critical and creative thinking through the use of questions and strategies to critically analyse solution requirements. |
| **Unit 3 Weeks 9 to 11** *(Type in the date for each entry below.)*   |  |  | | --- | --- | | **Date** | **Notes about how you collected data - e.g. what methods you used, questions you asked, strategies you used. Notes based on conversations with your client.**  *You might want to focus on the following indicators:*   * *Documents evidence of critical and creative thinking through the identification, clarification and critical analysis of the data collected.* * *Documents evidence of critical and creative thinking through the use of questions and strategies to critically analyse solution requirements.* | | 25/4/23 | w3 schools – did some research about php data collection and validaation | | 28/4/23 | Using already made surveys to help with the data collection used now made a quick simple google survey asking general web design questions web design questions because it helped get more information about how to fix the “issue/problem” of the client | | 23/05/23 | Interviewd and used reverse psychology and sharing ideas, i.e if I didn’t know how to do it id tell him that is out of my capabiltis but something I could do which is similar is so on.. |   *(Add more rows as needed.)* | | | |

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| **Key knowledge** | **Key skills** | **SAT Criterion** | **SAT Indicators** |
| * security considerations influencing the design of solutions, including authentication and data protection * techniques for generating design ideas * criteria for evaluating the alternative design ideas and the efficiency and effectiveness of solutions * methods of expressing solution designs using data dictionaries, mock-ups, object descriptions and pseudocode * factors influencing the design of solutions, including affordance, interoperability, marketability, security and usability * characteristics of user experiences, including efficient and effective user interfaces | * generate alternative design ideas * develop evaluation criteria to select and justify preferred designs * produce detailed designs using appropriate design methods and techniques | **5. Skills in designing the software solution.** | * Generates alternative design ideas. * Develops evaluation criteria with reference to design ideas and the efficiency and effectiveness of the software solution. * Produces preferred design for the software solution. * Documents evidence of critical and creative thinking through design ideas, solution requirements and justification of preferred designs. |
| **Unit 3 Weeks 12 to 14** *(Type in the date for each entry below.)*   |  |  | | --- | --- | | **Date** | **Notes about writing your Software Requirements Specification - e.g. how you worked out what the requirements, constraints, and scope were, analytical tools you used, research you did. Notes based on conversations with your client.**  *You might want to focus on the following indicators:*   * *Documents evidence of critical and creative thinking through the identification, clarification and critical analysis of the data collected.* * *Documents evidence of critical and creative thinking through the use of questions and strategies to critically analyse solution requirements.* | |  |  | |  |  | |  |  |   *(Add more rows as needed.)* | | | |

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| **Key knowledge** | **Key skills** | **SAT Criterion** | **SAT Indicators** |
| * procedures and techniques for handling and managing files and data, including archiving, backing up, disposing of files and data and security * ways in which storage media, transmission technologies and organisation of files affect access to data * uses of data structures to organise and manipulate data * processing features of a programming language, including classes, control structures, functions, instructions and methods * characteristics of efficient and effective solutions • techniques for checking that coded solutions meet design specifications, including construction of test data * validation techniques, including existence checking, range checking and type checking | * develop a software solution and write internal documentation * select and apply data validation and testing techniques, making any necessary modifications * propose and implement procedures for managing data and files | **6. Skills in using a programming language**  **to develop the software solution.** | * Uses a range of appropriate processing features. * Writes comprehensive internal documentation. * Applies appropriate validation techniques. * Documents evidence of critical and creative thinking through the modification of designs and evaluation criteria. |
| **7. Skills in managing data and files, and testing the software solution.** | * Organises and manipulates appropriate data structures efficiently to manage data and files. * Proposes and implements procedures to manage the security of data and files. * Documents the use of testing techniques and test data. |
| **Unit 3 Week 15 to Unit 4 Week 4** *(Type in the date for each entry below.)*   |  |  | | --- | --- | | **Date** | **Notes about programming, managing data and files, and testing.**  *You might want to focus on the following indicator:*   * *Documents evidence of critical and creative thinking through the modification of designs and evaluation criteria.* | |  |  | |  |  | |  |  |   *(Add more rows as needed.)* | | | |

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| **Key knowledge** | **Key skills** | **SAT Criterion** | **SAT Indicators** |
| * techniques for testing the usability of solutions and forms of documenting test results | * prepare and conduct usability tests using appropriate techniques, capture results, and make any modifications to solutions | **8. Skills in conducting usability testing.** | * Preparation and conduction of usability tests. * Documents the results of the usability tests. * Documents the modifications to the software solution based on the results of the usability testing. |
| **Unit 4 Weeks 4 to 6** *(Type in the date for each entry below.)*   |  |  | | --- | --- | | **Date** | **Notes about usability testing. You could include information about how you conducted tests, who your testers were, questionnaire & interview questions and responses.**  *You might want to focus on the following indicator:*   * *Documents the modifications to the software solution based on the results of the usability testing.* | |  |  | |  |  | |  |  |   *(Add more rows as needed.)* | | | |

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| **Key knowledge** | **Key skills** | **SAT Criterion** | **SAT Indicators** |
| * strategies for evaluating the efficiency and effectiveness of software solutions … * factors that influence the effectiveness of development models | * apply evaluation criteria to evaluate the efficiency and effectiveness of the software solution * evaluate the effectiveness of the selected development model | **9. Skills in evaluating the software solution.** | * Proposes strategies for evaluating the efficiency and effectiveness of the software solution. * Documents the evaluation of the efficiency and effectiveness of the software solution in meeting requirements. * Documents the evaluation of how the development model assisted in the development of the software solution. * Documents evidence of critical and creative thinking through the evaluation of the analysis, design and development stages and improvements to the solution. |
| **Unit 4 Weeks 6 to 7** *(Type in the date for each entry below.)*   |  |  | | --- | --- | | **Date** | **Notes about an evaluation strategy, your evaluation of the software, and of the selected development model.**  *You might want to focus on the following indicator:*   * *Documents evidence of critical and creative thinking through the evaluation of the analysis, design and development stages and improvements to the solution.* | |  |  | |  |  | |  |  |   *(Add more rows as needed.)* | | | |

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| **Key knowledge** | **Key skills** | **SAT Criterion** | **SAT Indicators** |
| * techniques for recording the progress of projects, including adjustments to tasks and timeframes, annotations and logs * … and assessing project plans | * monitor, modify and annotate project plans as necessary * assess the effectiveness of the project plan in managing the project | **10. Skills in assessing the project plan.** | * Documents the modifications made to the initial project plan throughout the duration of the project. * Assesses the effectiveness of the project plan. |
| **Unit 4 Weeks 7 to 8** *(Type in the date for each entry below.)*   |  |  | | --- | --- | | **Date** | **Notes about assessing the project plan.** | |  |  | |  |  | |  |  |   *(Add more rows as needed.)* | | | |