**Checklist**

Task 1:

Activity A:

* Business Context
* Stakeholders
* Functional and Non-functional requirements
  + List of functional requirements
    - Decomposition of functional requirements
  + List of non-functional requirements
    - Decomposition of non-functional requirements
* Decomposition of the problem
  + Milestones
  + Deliverables
  + SWOT analysis
    - Strengths
    - Weaknesses
    - Opportunities
    - Threats
* KPIs
* User Acceptance Criteria
* Description of proposed solution
* Justification
* Laws and Legislations
  + GDPR/DPA
  + Copyright
  + W3C/WCAG
* Appendix

Activity B:

* Algorithms
  + Flowchart
  + Pseudocode
* Data Requirements
  + Data Flow Diagrams
  + Use Case Diagram
  + Entity Relationship Diagrams

Task 2:

* Programming languages
  + C#
  + Python
  + SQL
* Maintainable Code
  + Appropriate naming conventions
  + Logical organisation
  + Informative commenting
* User experience
  + Input handling
  + User guidance and error messages
  + Outputs
* Standards and guidelines
  + Accessibility
  + Compatibility
  + Legal and ethical considerations
* Types of test data
  + Normal data
  + Erroneous data
  + Extreme data
* Understanding of errors
  + Inputs
  + Calculations
  + Validation and Processes
* Iterative Development Process
  + Records of changes
  + Rationale of changes
  + Use of versioning