Smart Medical Management System Work Breakdown Structure

Level	WBS Code	WBS Code	Definition
1	1	Smart Medical Management System	All work to complete a Smart Medical Management System. The system should handle the management of medical activities between health organisations and the corresponding stakeholders.
2	**1.1**	**Initiation and Planning**	**The work needed to initiate and plan for the project.**
3	1.1.1	Discuss and Setup Lines of Communication	Share details with other members to allow for efficient communication between group members.
3	1.1.2	Create GitHub Repository	One member to create private GitHub repository and add the remainder of the group as contributors.
3	1.1.3	Organise a Weekly Team Meeting	Informally discuss the days and times that members will be available to attend a weekly meeting and finalise this for the rest of term.
3	**1.1.4**	**DELIVERABLE: Take Belbin Self Perception Inventory**	**All members are required to take the Belbin Self Perception Inventory and provide results to other members though GitHub.**
3	1.1.5	Belbin Discussion and Role Assignment	Meet with all team members to discuss findings from Belbin Self Perception Inventory and assign team members their role.
3	**1.1.6**	**DELIVERABLE: Justification Report of Role Allocation**	**Write up the justification of why certain roles were given or not given to certain individuals.**

3	1.1.7	Create Initial Trello Board	Create and invite all team members to the Trello Board and start to initially flesh out the tasks and who will be assigned to them.
3	**1.1.8**	**DELIVERABLE: Define Focus Questions**	**As a team discuss the focus questions and scope of those questions before creating the Concept Map.**
3	**1.1.9**	**DELIVERABLE: Create Initial Project Concept Map**	**Using the agreed upon focus questions start to create the Project Concept Map.**
3	1.1.10	Create initial Ontology	Using the information provided in the scenario and other information gathered so far start to look at how all these things are interconnected.
3	1.1.11	Discuss Risk Analysis Techniques	Read about Risk Analysis techniques and discuss the pros and cons with other team members.
3	**1.1.12**	**DELIVERABLE: Justification of Adopted Risk Analysis Technique**	**Write up the justification of why a Risk Analysis technique was chosen and why others were not.**
3	1.1.13	Discuss Project Risks	Discuss with other members the potential risks that could happen during the duration of the project.
3	**1.1.14**	**DELIVERABLE: Create Initial Risk Analysis Table**	**Using the adopted risk management technique and the risks put forward by team members. Create and finalise the risk analysis table.**
3	**1.1.15**	**DELIVERABLE: Create Initial Gantt Chart**	**Using the work breakdown structure and team roles create the Gantt chart that will be used by team members to know what they should be working on.**
3	**1.1.16**	**DELIVERABLE: Create Initial WBS Directory**	**Using the Assessment Guide on Deliverables create the Work Breakdown Structure Table.**

3	1.1.17	**DELIVERABLE: Create WBS tree diagram**	**Using the Work Breakdown Structure Table create the tree version of the diagram.**
3	1.1.18	**DELIVERABLE: Create Initial PERT Chart**	**Using the WBS and Gantt Chart create a PERT diagram to show visually how the project will flow.**
3	1.1.19	Discuss Critical Paths for The Project	After completing the individual task, discuss the project's Critical Paths.
3	1.1.20	Create Initial Activity Network Diagram	After discussion is complete, create an Activity Network Diagram for the project highlighting the critical paths.
3	1.1.21	Discuss System Requirements	Talk with all team members about what the system can do and what of those things will be feasible.
3	1.1.22	System Requirements List	Create a list of the systems requirements to talk to the customer about.
3	1.1.23	Discussion About Moving to Next Phase	Discuss with all group members to see if all work is completed and if we are now ready to move onto the next phase.
2	**1.2**	**Analysis**	**The work needed to analyse the new system.**
3	1.2.1	Discuss System Requirements	Discuss as a team the system requirements using the provided scenario and other information given to us by the client.
3	1.2.2	**DELIVERABLE: Develop System Requirements Document**	**Document all system requirements brought up in the group discussion.**
3	1.2.3	Discuss Development Methodologies	Read about Development Methodologies discuss the pros and cons with other team members.
3	1.2.4	**DELIVERABLE: Justify Development Methodology**	**Document the chosen methodology and state why other methodologies were not chosen.**

3	1.2.5	Discuss Use Case Diagram	Once completed, discuss the Use Case Diagram with the team to make sure that all members are on the correct page.
3	1.2.6	**DELIVERABLE: Create Use Case Diagram**	**Using the System Requirements developed in the group discussion create the Use Case Diagram.**
3	1.2.7	**DELIVERABLE: Create Storyboard**	**Use all the other documentation provided to create the Storyboard for the project.**
3	1.2.8	**DELIVERABLE: Create Class Diagram**	**Use NetBeans to generate the final class diagram for the project.**
3	1.2.9	**DELIVERABLE: Create Domain Models**	**Use all the other documentation provided to create the Domain Model for the project.**
3	1.2.10	**DELIVERABLE: Create Robustness Diagram**	**Using the Use Case Diagram to create the Robustness Diagram.**
3	1.2.11	**DELIVERABLE: Create Sequence Diagram**	**User the Use Case Diagram and Robustness Diagram to create the Sequence Diagram.**
3	1.2.12	Discussion About Moving to Next Phase	Discuss with all group members to see if all work is completed and if we are now ready to move onto the next phase.
2	**1.3**	**Design**	**The work needed to design the new system.**
3	1.3.1	Discuss Architecture Design Techniques	Read about Architecture Design techniques and discuss the pros and cons with other team members.
3	1.3.2	**DELIVERABLE: Justify Architecture Design Technique**	**Create documentation showing the Architecture Design.**
3	1.3.3	Discuss User Interface Design	Using the Storyboard created in the Analysis phase create a design for the user interface. This should include a design of every window seen by the end user.

3	1.3.4	**DELIVERABLE: Create User Interface Design Documentation**	**Create documentation showing the designs for the user interfaces.**
3	1.3.5	Discussion About Moving to Next Phase	Discuss with all group members to see if all work is completed and if we are now ready to move onto the next phase.
2	**1.4**	**Implementation**	**The work needed to implement the project.**
3	1.4.1	Discuss International Coding Standards	Read about International Coding Standards and discuss with other team members.
3	**1.4.2**	**DELIVERABLE: System Codes Reflecting International Coding Standards**	**Create documentation about the coding standards that this project will use and make this available to all team members.**
3	**1.4.3**	**DELIVERABLE: System Codes on GitHub**	**Show the use of system codes on GitHub.**
3	1.4.4	Divide Up Coding Tasks Between Members	Divide all the required coding up between all members of the team being sure to use each member strengths to get the work done.
3	**1.4.5**	**DELIVERABLE: Working Program/Project**	**Provide a working code project to the client.**
3	1.4.6	Discuss Development Progress	Discuss the current state of development on the project with all team members.
3	**1.4.7**	**DELIVERABLE: Unit Testing Code**	**Make sure that all units have a set of unit tests that can be automatically run.**
3	**1.4.8**	**DELIVERABLE: Create Test Plan**	**Create detailed test plan for all the Use Cases outlined in the Analysis phase.**
3	**1.4.9**	**DELIVERABLE: Document Results of Test Plan**	**Run the completed test plan and document the results for the client.**
3	1.4.10	Discussion About Moving to Next Phase	Discuss with all group members to see if all work is completed and if we are now ready to move onto the next phase.

2	1.5	**Maintenance and Support**	**The work needed to maintain and support the software.**
3	1.5.1	Discuss and Divide Up Tasks	Discuss and divide up all tasks amongst the team members.
3	1.5.2	**DELIVERABLE: Create User Guide**	**Create a detailed user guide on the systems features and how to navigate around it.**
3	1.5.3	**DELIVERABLE: Create Developer Guide**	**Create a detailed developer guide containing all the information required to allow the product to be repaired by another team of software engineers.**
3	1.5.4	Discussion About Ending the Project	Discuss with all group members to see if we are now ready to deliver the project to the client.