Work Breakdown structure

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| Level | WBS code | WBS | WBS Definition |
| 1 | 1 | **Initiation** | Work done to begin the project |
| 2 | 1.1 | Analytic station | Review the station. |
| 2 | 1.2 | Evaluation and recommendations | Evaluate solutions to the digital triplet model of the station |
| 2 | 1.3 | Develop Project charter | Project Manager to develop the Project Charter. |
| 2 | 1.4 | Submission of Project Charter | Project Charter (statement of objectives) is delivered to the Project Sponsor. |
| 2 | 1.5 | Review of Project Charter | Project sponsor goes through the Project Charter. |
| 2 | 1.6 | Approval of project charter | Project manager approves the project |
| 1 | 2 | **Planning** | Planning process for the project |
| 2 | 2.1 | Create Preliminary Scope Statement | Project Manager creates a Preliminary Scope Statement |
| 2 | 2.2 | Determine Project Team | The Project Manager selects the project team. |
| 2 | 2.3 | Project Team Kickoff Meeting | Planning is officially started with meeting including project manager and project team. |
| 2 | 2.4 | Develop Project Plan | The project team develops project plan under the directions of the project manager |
| 2 | 2.5 | Submit Project Plan | Project Manager submits the project plan for approval. |
| 2 | 2.6 | Approval of project plan | Project plan is approved |
| 1 | 3 | **Execution** | Process of project execution |
| 2 | 3.1 | Kickoff Meeting | Project Manager conducts an official kick off meeting with the project team, project stakeholders and project sponsor |
| 2 | 3.2 | Verification of User Requirements | The user requirements are reviewed by both the project team and manager. All clarification is made and is finally validated. |
| 2 | 3.3 | Design the Digital Triplet model | Digital twin model in Siemens NX  Face-recognition in python using   * Face\_recognition package and open-cv * Transfer learning MobileNet   Chatbot in python with Tensorflow Keras API |
| 2 | 3.4 | Integration | Integration of face-recognition and chatbot models with the server and client |
| 2 | 3.5 | Testing | The following is tested   * Security access * Voice communication * Digital twin model in relation to the physical station * HMI control |
| 2 | 3.6 | User Training | All users managers included are trained on the operation and control of the digital triplet |
| 2 | 3.7 | Live | System goes live with all users |
| 1 | 4 | **Control** | Entails the work involved for the control process of the project. |
| 2 | 4.1 | Project Management | Project management for the project. |
| 2 | 4.2 | Project Status Meetings | Weekly meeting by the project team to discuss the project’s status. |
| 2 | 4.3 | Risk Management | Risk management efforts as defined in the Risk Management Plan. |
| 2 | 4.4 | Update Project Management Plan | Project Manager updates the Project Management Plan as per the project’s progress. |
| 1 | 5 | **Closeout** | Finalization activities |
| 2 | 5.1 | Audit Procurement | Audit of all hardware and software procured for the project, |
| 2 | 5.2 | Document learnt Lessons | Done by the project manager and the project team |
| 2 | 5.3 | Update Files and Records | All files and records are updated to reflect the widget management system. |
| 2 | 5.4 | Formal Acceptance | The Project Sponsor formally accepts the project by signing the acceptance document included in the project plan. |
| 2 | 5.5 | Archive Files and Documents | All project related files and documents are formally archived |