**Product Specification:**

The product specification is categorized into functional and non-functional requirements and is described below with MoSCoW method:

**Functional Requirement:**

|  |  |
| --- | --- |
| **Functional Requirements** | **MoSCo W** |
| **Real- time gesture detection and recognition** | M |
| **Conversion of user-entered English text (no advanced grammar) into ASL gesture video** | M |
| **Translation of recognized gesture into English text** | M |
| **Integration of hand detection and recognition models** | M |
| **User Friendly UI for user to use the product** | M |
| **Integration of Text-to-Speech (TTS) module** | S |
| **Real time Error Handling System in case of gesture not recognized or detected** | S |
| **Integration with mobile platform for portability** | C |
| **AR/VR integration** | W |
| **Complex Dynamic Sign Language Grammar Support** | W |
| **Multi-User real time collaboration for gesture translation.** | W |

**Non-Functional Requirement:**

|  |  |
| --- | --- |
| **Non-Functional Requirements** | **MoSCo W** |
| **Product Accuracy in gesture recognition** | M |
| **Product is tested and validated** | M |
| **Product is user friendly** | S |
| **Product shall be platform independent** | C |
| **Product must maintain stable and consistent performance in diverse conditions.** | **M** |
| **Product UI to be accessible for users with little technical knowledge.** | **S** |
| **Provide support for external Camera** | **C** |
| **Development on cloud platform for large-scale use.** | **W** |
| **Real time integration with AR/VR glasses** | **W** |