

**Submitted To:**

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| Singing Ontology | | | | |
| SEEMP Reference Ontology Requirements Specification Document | | | | |
| **1** | **Purpose** | | | |
|  | The purpose of building the Reference Ontology is to provide a consensual knowledge model of the different types of Singing domain to be used by public. | | | |
| **2** | **Scope** | | | |
|  | The ontology has to focus just on the different types of singing domain and its presence in different locations around the world. The level of granularity is directly related to the competency questions and terms identified. | | | |
| **3** | **Implementation Language** | | | |
|  | The ontology has to be implemented in OWL language. | | | |
| **4** | **Intended End-Users** | | | |
|  | User 1. Teen agers interested in singing history and music.  User 2. Aged people looking for classical music.  User 3. Researcher to gather information for different purposes.  User 4. Upcoming singer looking for their areas of interest according to their vocals. | | | |
| **5** | **Intended Uses** | | | |
|  | Use 1. For gaining knowledge about singing.  Use 2. To look for classical music options.  Use 3. Gather information about specific singing type.  Use 4. Looking for different professional singing options. | | | |
| **6** | **Ontology Requirements** | | | |
|  | **a. Non-Functional Requirements** | | | |
|  | NFR1. The ontology must support a multilingual scenario in the following languages: English, Spanish, Italian, and French.  NFR2. The ontology must be consistent should be able to answer all the competency questions.  NFR3. The ontology must satisfy FAIR (Findable, Accessible, Interoperable, Reusable) principle. | | | |
|  | **b. Functional Requirements: Groups of Competency Questions** | | | |
|  | Group 1: Vocals  CQ1. What are the vocals needed for rock music?  CQ2. What are the vocals needed for Jazz?  CQ3. What are the vocals needed for Ballad?  CQ4. What are the vocals needed for Disco music?  Group 2: Regions  CQ5. What type of songs are sung in specific Punjab?  CQ6. What type of songs are sung in specific California?  CQ7. What type of songs are sung in specific Africa?  CQ8. What type of songs are sung in specific Sindh?  Group 3: Production Company  CQ9. What type of songs T-Series produce?  CQ10. What type of songs ARY Films produce?  CQ11. What type of songs The Orchard produce?  CQ12. What type of songs Tip Industries produce?  Group 4: Instruments  CQ13. Which instruments are used with Jazz music?  CQ14. Which instruments are used with Electronic music?  CQ15. Which instruments are used with Qawali music?  CQ16. Which instruments are used with POP music?  Group 5: Cast  CQ17. Who was the director of “Taj dar e haram”?  CQ18. Who was the Artist of “Taj dar e haram”?  CQ19. Who was the Supporting singer of “Taj dar e haram”?  CQ20. Who was the Guest Musicians of “Taj dar e haram”?  CQ21. Who was the choreographer of “Taj dar e haram”?  CQ22. Who was the Song writer of “Taj dar e haram”?  Group 6: Famous Singers  CQ23. Who are the famous singers of Qawali?  CQ24. Who are the famous singers of Jazz music?  CQ25. Who are the famous singers of Ballad?  CQ26. Who are the famous singers of Hip hop?  Group 7: language  CQ27. What is the language of “Baari” song?  CQ28. What is the language of “Perfect” song?  CQ29. What is the language of “Gabru” song?  CQ30. What is the language of “O Rang Raza” song?  Group 8: Origin  CQ31. What is the origin of Opera?  CQ32. What is the origin of Ballad?  CQ33. What is the origin of Qawali?  CQ34. What is the origin of Electronic Music?  Group 9: Discovery Year  CQ35. When was the Ballad songs were started/ discovered?  CQ36. When was the Jazz Music was started/ discovered?  CQ37. When was the Opera songs were started/ discovered?  CQ38. When was the Disco songs were started/ discovered?  Group 10: Record Type (Solo, Album, Film)  CQ39. How “Mere Samne Wali Khidki Mein” was recorded?  CQ40. How “Baari” was recorded?  CQ41. What are the songs of album “Divide’? | | | |
| 7 | **Pre-Glossary of Terms** | | | |
|  | **Terms from Competency Questions** | | | |
|  | Vocals  Regions  Production Company  Instruments  Cast |  | Famous Singers  Language  Origin  Discovery Year  Record Type |  |