

**Submitted To:**

Sir Fahad Maqbool

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**Group Members:**

Rafia Tehseen (BSEF19M007)  
Fatima Masood (BSEF19M020)

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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 be consistent should be able to answer all the competency questions.  NFR2. 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. Which type of singing use Soprano vocals?  CQ3. What are the songs that need use of all men vocals?  CQ4. Give list of all women vocals?  CQ5. Which singing type does not use Contralto?  CQ6. What are the Vocals used in Respect?  Group 2: Regions  CQ1. What type of songs are sung in specific Punjab?  CQ2. What are the famous types of Africa?  CQ3. What is the most famous singing type in Punjab, in 2000s?  CQ4. What region is famous for opera?  CQ5. Enlist Top 10 songs of Pakistan?  Group 3: Production Company  CQ1. What type of songs T-Series produce?  CQ2. What is the production company of song “Nach mari jann”?  CQ3. What are top 10 songs of ARY Films?  CQ4. When was T-Series established?  CQ5. Who is the current owner of “Warner Music Group”?  CQ6. Which company produce Rock music?  CQ7. Enlist production companies that produce Classical songs.  Group 4: Instruments  CQ1. Which instruments are used with Jazz music?  CQ2. What are the common instruments in Qawali and jazz music?  CQ3. Which type use guitar and drums together?  CQ4. In which singing type Tabla is used the most?  CQ5. Enlist all music instruments?  Group 5: Cast  CQ1. Who was the director of “Taj dar e haram”?  CQ2. Who was the Artist of “Taj dar e haram”?  CQ3. Who was the Supporting singer of “Taj dar e haram”?  CQ4. Who was the Guest Musicians of “Taj dar e haram”?  CQ5. Who was the choreographer of “Taj dar e haram”?  CQ6. Who was the Song writer of “Taj dar e haram”?  CQ7. List of songs of Atif Aslam?  CQ8. Name the director that directed at least 5 songs?  CQ9: Who are the directors of “Classical music”?  Group 6: Famous Singers  CQ1. Who are the famous singers of Qawali?  CQ2. Who are the famous singers of 2001?  CQ3. Name the singers who are famous for both Rock and electronic music?  CQ4. For which singing type Asim Azhar is famous for?  CQ5. Who are the famous early singers of Qawali in Persia?  CQ6: Who are latest teachers of Rock Music?  Group 7: language  CQ1. What is the language of “Baari” song?  CQ2. What are the songs written in more than one language?  CQ3. List the name of songs written in punjabi?  CQ4. Which song has both lyrics of English and Urdu?  CQ5. Name the songs which has both Punjabi and Urdu language lyrics?  CQ6. Does Taj dar e haram have lyrics in English language?  CQ7. List of songs written in Arabic?  CQ8. Which types of songs are sung in Urdu Language?  CQ9: Name of songs written in Saraiki.  Group 8: Origin  CQ1. What is the origin of Opera?  CQ2. Which singing types have same origin?  CQ3. Which singing type was originated from New Orleans?  CQ4. Who was the first singer of New Orleans?  CQ5. Enlist the current singer of Italy in opera?  Group 9: Discovery Year  CQ1. When was the Rock songs were started/ discovered?  CQ2. Name of songs discovered in 2022?  CQ3. Which singing type was discovered in 2000s?  CQ4. What is the latest discovered singing type?  CQ5. Enlist singing types of 1900s.  Group 10: Record Type (Solo, Album, Film)  CQ1. How “Mere Samne Wali Khidki Mein” was recorded?  CQ2. List of Songs of film “Taray zameen par”?  CQ3. What are the songs of album “Divide’?  CQ4. What is the ost of drama serial Humsafar?  CQ5. Enlist solo recorded songs?  CQ6. Name at most 10 song albums?  CQ7. What is the level of difficulty in producing solo songs?  Group 11: Singing type (classical, modern)  CQ1. Give list of all modern singing type?  CQ2. How many main branches singing has?  CQ3. Give list of vocal used for classical music?  CQ4. What are the famous singing types of Asia?  CQ5. What are the subbranches of classical music type? | | | |
| 7 | **Pre-Glossary of Terms** | | | |
|  | **Terms from Competency Questions** | | | |
|  | Vocals  Regions  Production Company  Instruments  Cast |  | Famous Singers  Language  Origin  Discovery Year  Record Type |  |