Do’a and Zikr Al-Ma’thur Ontology for the Counselling Practice: Evaluation Approaches

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This research reports on the evaluation activities performed during the ontology development of Do’a & Zikr Al-Ma’thur for the use of counselling session in secondary schools.

- Do’a & Zikr Al-Ma’thur can be suggested to Muslims in order to help them deal with challenges or issues in life.
- Counselling cases could affect a person’s feelings, Do’a & Zikr Al-Ma’thur is frequently chosen to be applied as a counselling intervention for Muslims.
METHODOLOGY

- 4 approaches used at the evaluation phase during the Do’a & Zikr Al-Ma’thur ontology development; including internal and external evaluation.
- Internal evaluation involved the validation & verification activities by the experts in Quran and Sunnah field as well as the counselling field.
- External evaluation was performed via the SPARQL Query assessment and users assessment
Internal evaluation derived results from the experts’ validation and verification activities.

The validation and verification activities were performed in order to ensure the trustworthiness of the selected data.

The SPARQL Query evaluation is to assess whether the developed ontology has the ability to answer provided questions.
In the context of this research, ontology evaluation approaches signifies the importance of deriving authentic religious texts from accurate sources that can be extracted as an alternative in the counselling intervention used by the counselors in schools.
The evaluation phase consisting of validation, verification, competency questions and users assessment has met the criteria of Gomez-Perez et al. (2004) and Kreider (2013) referred in this research.
CRITERIA
(Kreider, 2013)

- **COMPREHENSIVE**: Entire concepts of target domain covered
- **CONSISTENCY**: Representation is consistent and no contradictory sentences can be inferred
- **EXTENSIBLE**: Designed to anticipate the uses of the shared vocabulary
- **COMPLETENESS**: Explicitly represented in it, or can be inferred; each representation is complete
- **EASE OF USE**: Ability to be understood, navigated and implemented
RESULTS OVERVIEW

VERIFICATION - almost all of the concepts met the accuracy level as reviewed by the expert

VALIDATION - all concepts validated by the experts met the criteria at the compliance rate

SPARQL QUERY - All execution is successful

USER ASSESSMENT - 83% of the results were categorised as Suitable
THANKS