**ODPReco READ ME –**

ODPReco helps in recommending ontology design patterns (ODPs) to an ontology. By using an ODP in an ontology, the user can re-use the features of ODP according to the particular domain and make the ontology more modular.

In order to recommend ODPs, ODPReco maintains a list of avaiable ODPs. The details of the ODPs maintained are - their OWL file, competency questions and their description. 73 ODPs are maintained from three datasets.

The ODPs are recommended on the basis of 3 analysis - structural, behavioural and lexical. Structural analysis is done on the basis of OWL file of the ontology. The behavioural analysis involves the competency questions and the lexical analysis involves the description of the ontology. Based on these three dimensions, the ODPs are recommended.

Jar file of ODPReco has been created and the user can run the jar file on command line to know the ODP recommendations for the given ontology.

    a. Prerequisites:

The user must have java installed in the system inorder to run the jar file. Inorder to know the recommendations for an ontology, owl file for that ontology should be avaiable. OWL file can be constructed in protégé. Also, the user has to enter the description for that ontology along with the competency questions.

    b. Execution Procedure:

After the jar file has been downloaded, it can run in the command prompt. The jar file along with the library folder (of dependencies) and resources folder should be kept in a single folder. The user has to enter three arguments in the command line. The first argument is to enter the description, the second argument is for competency questions and the third argument is for uploading the OWL file. The third argument is passed by entering the OWL file path with .owl extension.

The user should pass description and competency questions in quotes so that the spaces in description/cq are not considered as another argument.

The command for running the jar file is :

java -jar odpreco.jar "description test" "cq text" path\_of\_owl\_file.owl

After running the command, recommendations for the ontology will follow.

***Note:*** Please fill the **google form** <https://forms.gle/8TqyBBxnQEGx1rFg6> after the recommendations.