DATA MODEL FOR ENHANCED HELLO WORLD
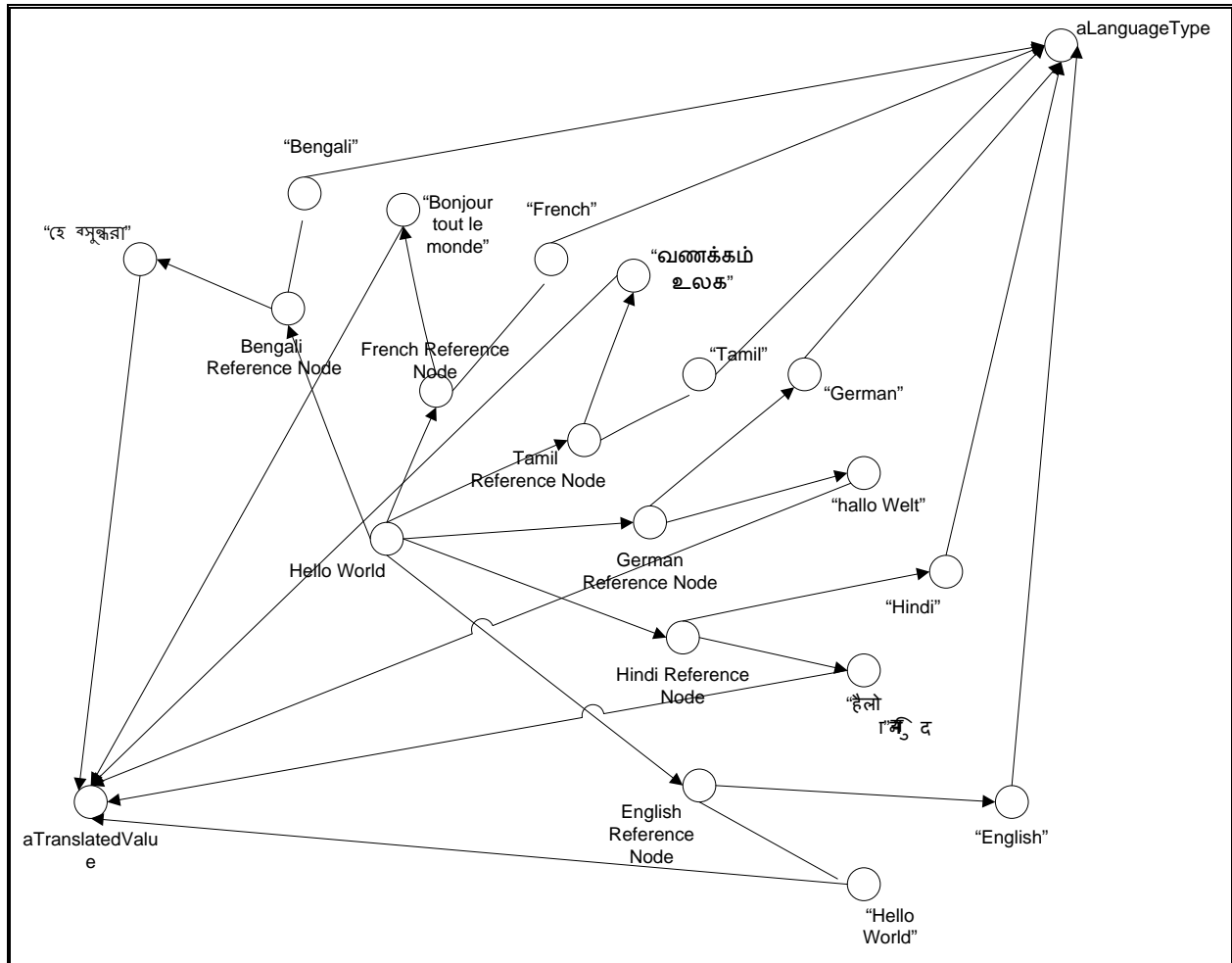
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Model Diagram

Fig 1: Data model for implementation of enhanced Hello world (in 5 languages)

In the above diagram, 'Hello world' is the main object node. It is connected to 6 reference nodes; each reference nodes denote a language reference. For example a 'Hindi Reference node' denotes Hindi translation reference. Each reference node is connected to a value with value type as 'aTranslationValue' and a property value with property as 'aLanguageType'. For example: HindiReference node is connected to value "हैलो दुनिया" with value type as 'aTranslationValue'. The HindiReference is also connected to value of the property 'aLanguageType' as "Hindi".

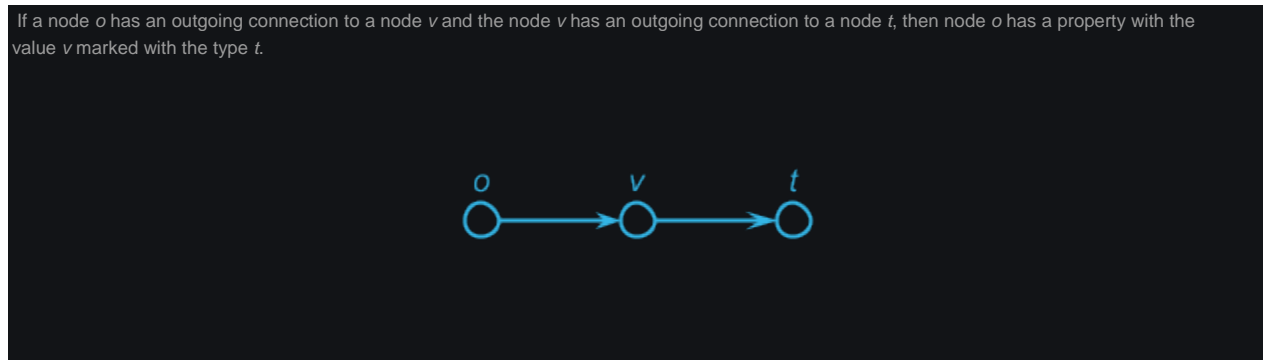This is used by combination of these following formulas of data pattern (For more details about data pattern, please refer the link: http://nextweb.io/docs/nextweb-data-pattern.value.html):
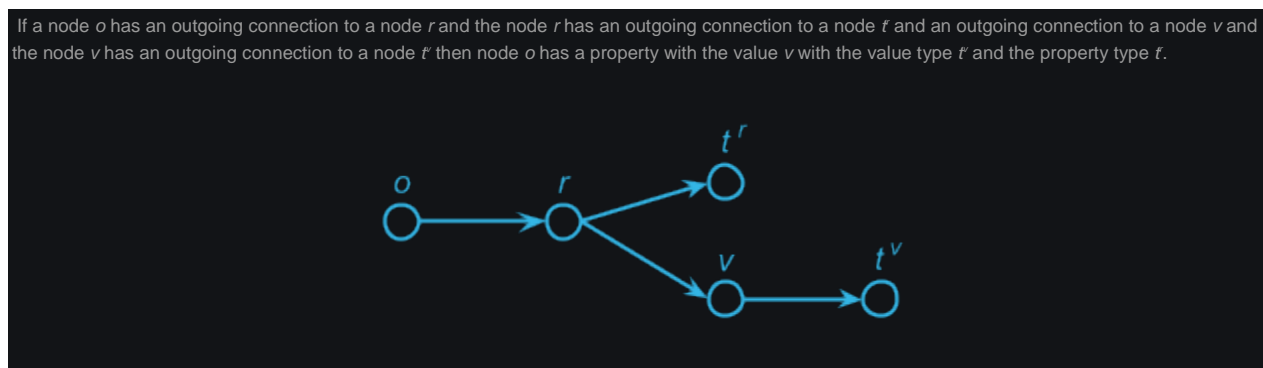
If a node o has an outgoing connection to a node v and the node v has an outgoing connection to a node t, then node o has a property with the value v marked with the type t.

Fig 2: Property 2

If a node o has an outgoing connection to a node r and the node r has an outgoing connection to a node t^r and an outgoing connection to a node v and the node v has an outgoing connection to a node t^v then node o has a property with the value v with the value type t^v and the property type t^r.

Fig 3: Property 3