DEC-O: an ontology framework and interactive 3D interface for interior decoration applications in the web

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Project acronym: DECO

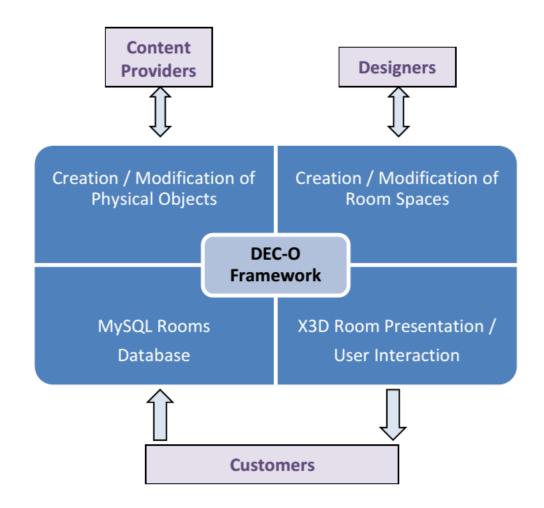


DECO project

Decoration Ontology (DEC-O) project, is a three-year project currently in the final year. Within the DEC-O project, we have developed an extensive ontological framework for the description of indoor areas from an interior design perspective, incorporating all possible relevant aspects of decoration. Moreover we have developed a UI for three level interoperability between OWL <> SVG<>X3D



The DECO architecture





The DECO (owl) ontology (1/4)

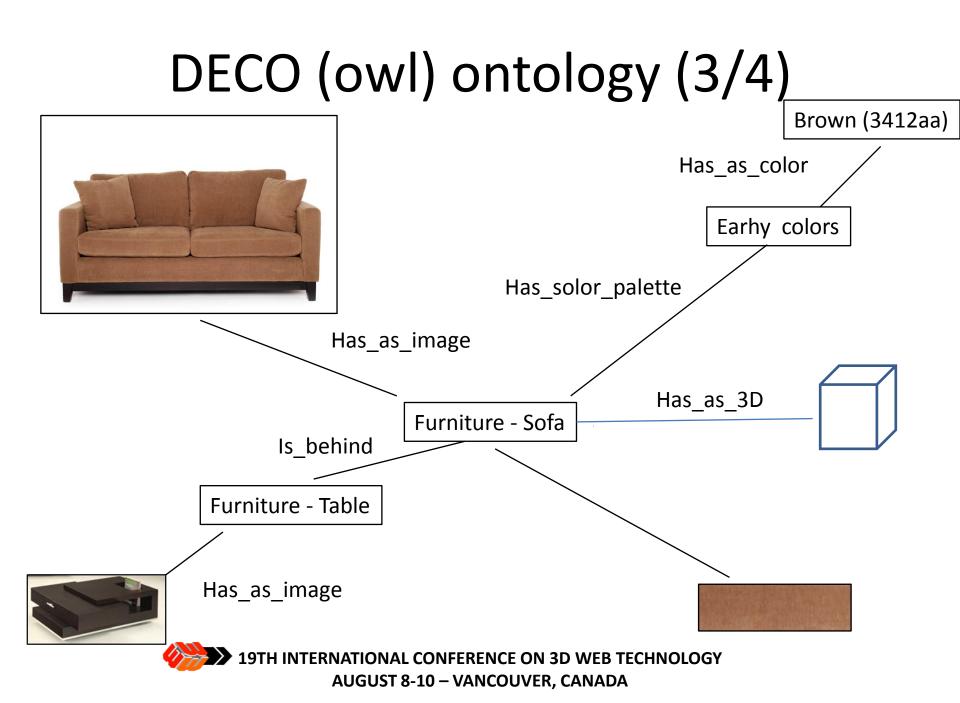
Asserted Hierarchy	약 다. 명3	Diject properties	É
ow! Thing		🔲 Ontology1244033197062:has_a_Mo	od
Ontology1244033197062: Content	t	Ontology1244033197062:has_a_Sty	yle
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Ontology1244033197062:Fak	prics	🔲 Ontology1244033197062:has_as_D	ominant_Color
Ontology1244033197062:Furniture		🔲 Ontology1244033197062:has_as_F	unctionality
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Ontology1244033197062:Col	orPaletteIndexName	Ontology1244033197062:has_as_P	attern
Ontology1244033197062:Coli	-	Ontology1244033197062:has as S	econdary Mater
Ontology1244033197062:Fun		Ontology1244033197062:has as T	heme
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Ontology1244033197062:Mod Ontology1244033197062:Orid Ontology1244033197062:Orid		Ontology1244033197062:is Behind	
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Ontology1244033197062:Ceil	ling	Ontology1244033197062:is_On_the	
Ontology1244033197062:Cor	nstruction	Ontology1244033197062:is_On_the	
Ontology1244033197062:Floo	or	Ontology1244033197062:is_Over_tl	
Ontology1244033197062:Wall		Ontology1244033197062:is_Upper_	
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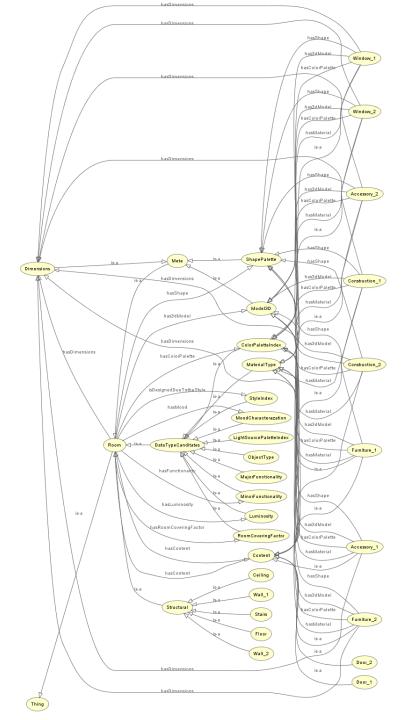
DECO (owl) ontology (2/4)

🔲 Datatype Properties 📫 T🗳	Datatype Properties	EŶ
Ontology1244033197062:has_a_3DModel	Ontology1244033197062:has_as_PatternIndexURL	
Ontology1244033197062:has_a_Covering_Factor	Ontology1244033197062:has_as_Placement_Target	
Ontology1244033197062:has_Approximate_Size	Ontology1244033197062:has_as_Residence_Location	
Ontology1244033197062:has_as_ColorPalleteIndexNumber	Ontology1244033197062:has_as_Residence_Type	
Ontology1244033197062:has_as_ColorPalleteIndexURL	Ontology1244033197062:has_as_Shape	
Ontology1244033197062:has_as_Function_Type	Ontology1244033197062:has_as_Size	
Ontology1244033197062:has_as_Functional_Height_Dimension	Ontology1244033197062:has_as_TargetGroup_for_BedRoom	
Ontology1244033197062:has_as_Functional_Length_Dimension	Ontology1244033197062:has_as_TargetGroup_for_LivingRoom	
Ontology1244033197062:has_as_Functional_Width_Dimension	Ontology1244033197062:has_as_Technotropia	
Ontology1244033197062:has_as_Gender_Type	Ontology1244033197062:has_as_TopViewURL	
Ontology1244033197062:has_as_Height_Dimension	Ontology1244033197062:has_as_Width_Dimension	
Ontology1244033197062:has_as_Hexadecimal	Ontology1244033197062:has_DoubleBed	
Ontology1244033197062:has_as_Illumination_Target	Ontology1 2440331 97062:made_From	
Ontology1244033197062:has_as_Length_Dimension	Ontology1244033197062:number_of_Females	
Ontology1244033197062:has_as_Luminosity	Ontology1244033197062:number_of_Males	
Ontologv1244033197062:has as MaterialIndexURL	Ontology1244033197062:to_be_Placed_at	



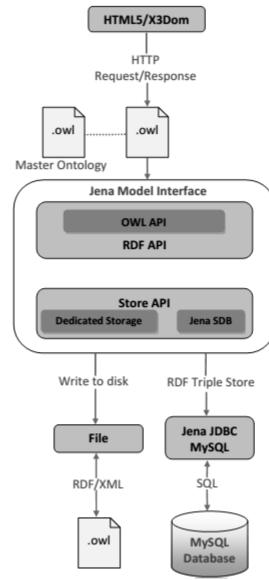


(owl) ontology (2/4) ECO

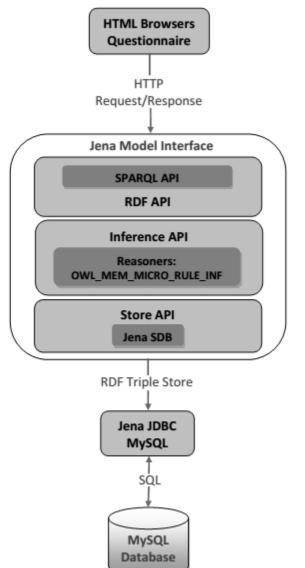


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DECO platform



ADMINISTRATOR / CONTENT PROVIDER



USER / CUSTOMER

Demo video

