PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>

PREFIX owl: <http://www.w3.org/2002/07/owl#>

PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>

PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>

PREFIX onto: <http://www.semanticweb.org/asifcomputer/ontology/2025/ui\_ux\_automation#>

SELECT ?subject ?object

WHERE { ?subject onto:suitableFor ?object }

Steps:

Class: LayoutSystem

SubClassOf:

(suitableFor only DevicePlatform) # Restricts "suitableFor" to DevicePlatform

Annotations:

rdfs:comment "A system for organizing UI components spatially."

Class: GridLayout

SubClassOf:

LayoutSystem and

(suitableFor only DesktopPlatform) # Restricts GridLayout to desktops

Annotations:

rdfs:comment "A rigid, column-based layout ideal for desktop screens."

Class: FlexLayout

SubClassOf:

LayoutSystem and

(suitableFor only MobilePlatform) # Restricts FlexLayout to mobile

Annotations:

rdfs:comment "A flexible layout system for dynamic mobile interfaces."

Class: StackLayout

SubClassOf:

LayoutSystem and

(suitableFor only MobilePlatform) # Restricts StackLayout to mobile

Annotations:

rdfs:comment "A vertical/horizontal stacking system for mobile UIs."

Class: MobilePlatform

SubClassOf: DevicePlatform

Annotations:

rdfs:comment "Device platforms with constrained screen sizes (e.g., phones)."

DisjointWith: DesktopPlatform # Ensures no overlap with desktop