

The graph model comprises three primary classes as depicted in Figure 2: the household, its location, and its appliances which are interconnected. Additionally, it includes demographic properties such as GDP, average wage, population density, energy prices, and the carbon intensity of electricity production. The KG is encoded in RDF, stored in a Blazegraph database and can be queried via a SPARQL endpoint. The KG can be explored further on its LodView deployment 1.