A4: Conceptual Data Model

Our project features an information system capable of supporting an online store, which would allow users to buy products from a wide range of categories. In this artefact we present its Conceptual Domain Model, which includes the relevant entities and the relationships between them are shown in Figure 1. It follows the UML class diagram notation conventions. The constraints and business rules are shown using notes.
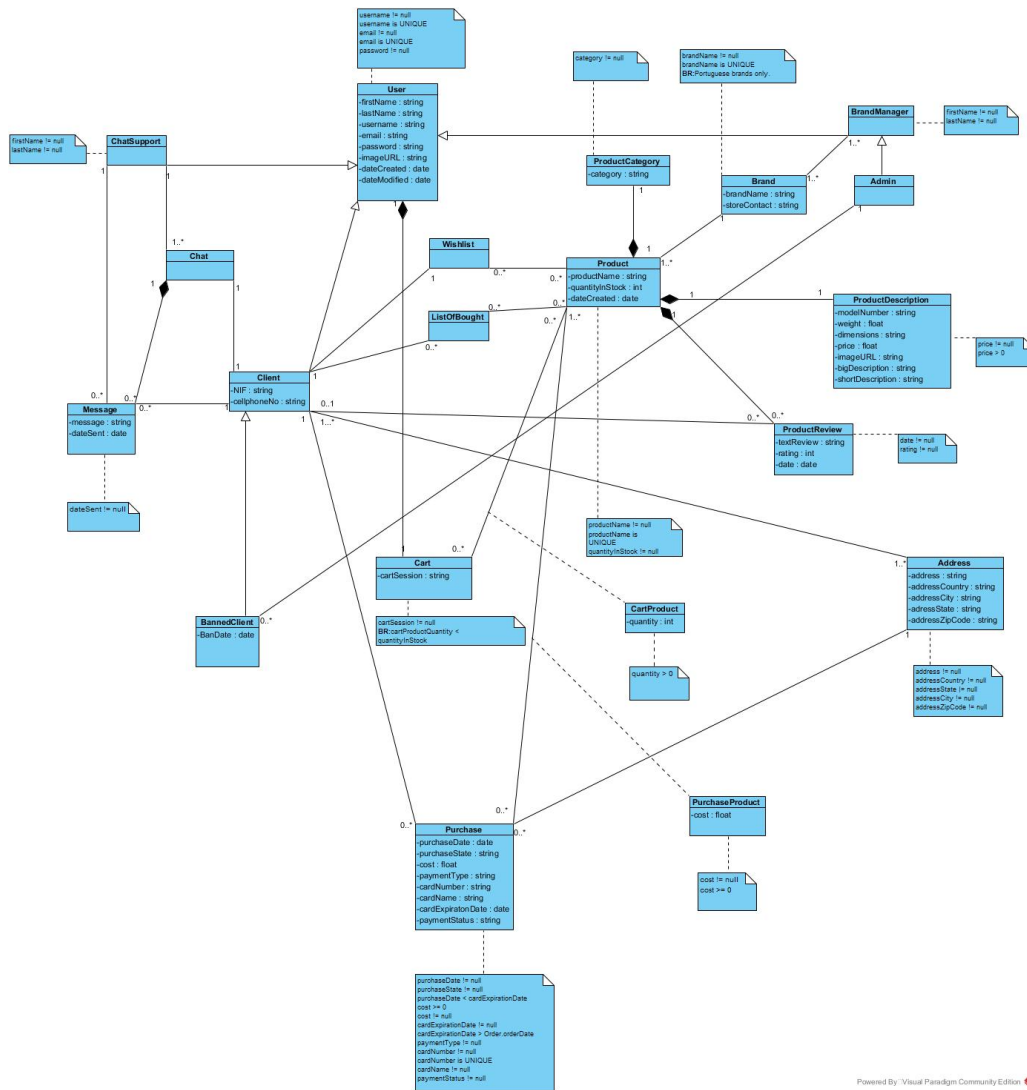

Figure 1: Simplified Class Diagram in UML

The relevant relationships (inheritance and association) are represented. Abstract classes or interfaces were not deemed necessary. All the associations between the entities are binary and bidirectional and the entities play a single, well-defined role in them.

The attributes' type is shown in a generic way and although they are all marked as private, there will be methods to access them. Attributes that can be derived from others (such as the the cart's total payment value) or that aren't going to be implemented (such as users' birthday, for discounts) are not shown.

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