UML Class Diagram

The arrowhead to `Hotel` from `Availability` has `0..1` next to it because `hotel` is an optional parameter to `Availability`. We felt this was the mose accurate way to represent that relationship, hopefully that assumption is appropriate. It should also be noted that `filter` appears in both `Hotel` and `Room`, and is meant to be a placeholder for any sort of boolean preference variable, e.g., `gym` in `Hotel` etc.
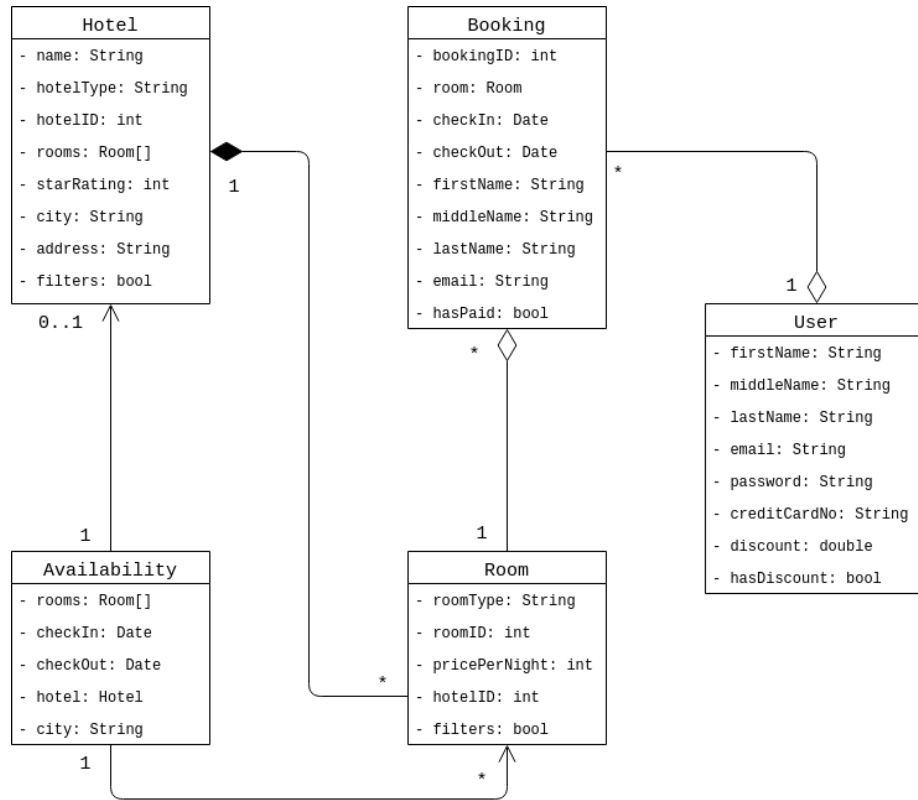

Figure 1: Domain Model