Algebraická špecifikácia - MSOFT

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Typy

Route, Location, Housing, Restaurant, Route Builder

Funkcie

 $createBuilder: Empty \rightarrow RouteBuilder$

 $setStart: RouteBuilder \times Location \rightarrow RouteBuilder \\ setEnd: RouteBuilder \times Location \rightarrow RouteBuilder \\ addStop: RouteBuilder \times Location \rightarrow RouteBuilder$

 $addRestaurant: RouteBuilder \times Restaurant \rightarrow RouteBuilder \\ addHousing: RouteBuilder \times Housing \rightarrow RouteBuilder$

 $hasStart: RouteBuilder \rightarrow Boolean$ $hasEnd: RouteBuilder \rightarrow Boolean$ $buildable: RouteBuilder \rightarrow Boolean$ $build: RouteBuilder \rightarrow Route$

Axiomy

 $\forall rb: Route Builder, l1: Location, l2: Location, h: Housing, r: Route$

 $A1: \neg buildable(createBuilder())$

A2: buildable(setEnd(setStart(rb, l1), l2))

A3: addHousingt(rb, h) = rb

A4:build(rb)=r

Predpoklady

 $addHousing(rb:RouteBuilder, h:Housing) \ requires \ buildable(rb)$ $addRestaurant(rb:RouteBuilder, r:Restaurant) \ requires \ buildable(rb)$ $buildable(rb:RouteBuilder) \ requires \ hasStart(rb) \land hasEnd(rb)$