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1 MyNextRide website software design I

1.1 Purpose of this note

Purpose of this note is to specify the software design for objects corresponding to Registered Guests (Customers), Product Advisors, Matches and Deals.

1.2 Sketch of the requirements

The MyNextRide website is designed to help customers select and buy vehicles.

The product advisors are identified by a number of data fields, such as Brand, City and Email.

The customers are characterized by survey data, shopping profiles and dilemma fields and (new) IP address.

These actors will be introduced to each other by the Match protocols on the website, while obeying the privacy rules (see below). They will then be able to discuss Deals which involve Vehicle selection.

A product advisor is implemented as a class object. Within the MyNextRide project class objects will also fit into the Model-View-Controller framework. They will also be persistent objects because data fields and IDs will be stored in the database.

Deal objects record an interaction between Registered guest, Product advisor, vehicle selection and price, and conditions pertaining to the deal (text field).

1.3 Access control

Customer survey data should not be revealed to all product advisors, just to the product advisor who communicates with the customer. The conversation between product advisor and customer should not be seen by other product advisors and other customers. However it should be visible to the dealer.

Certain fields will remain **private**. This means they would be labelled private in a PHP class, and they would be visible only to a super user in Joomla.

Certain fields will be **privileged**. This means they will only be shared with selected users, and usually with only one other selected user.

Other fields will be **sellers only**, and visible only to product advisors or dealer and not to other guests or the public.

Other fields will be **members only**, and visible only to registered guests, product advisors or dealers and not to the public.

Finally some fields will be **publically visible** to anyone who browses the site.

It should be simple to implement **publically visible**, **sellers only**, **members only** and **private** permission levels using Joomla access levels.

1.4 Registered Guest

Registered guest fields are: Name, Shopping profile (sellers only), Dilemma fields (privileged), Survey data (privileged). IP address or location (new, privileged).

Instantiated: when guest registration is complete, ie. when save or join button pressed.

Private fields: join date, id number, shared or not

Methods: edit, save, share info, select advisor, select vehicle, request chat

Views: short view (name, location), (sellers only), long view: all fields (privileged)

1.5 Product advisor

Product advisor fields include: Photo, City, Dealer, Brands, Email (privileged), Phone (privileged), OnLine, YearsExperience, ProductRestriction and Profile text. All fields publically visible unless otherwise stated. Profile text consists of 20- to 50 words and consists of text such as. "A former scientist - one day Chris hopes to take a trip into space." etc.

Instantiated: when PA registration is complete. ie. when save or join button is pressed

Private fields: join date, id number.

Methods: edit, save, request info, request chat, request vehicle

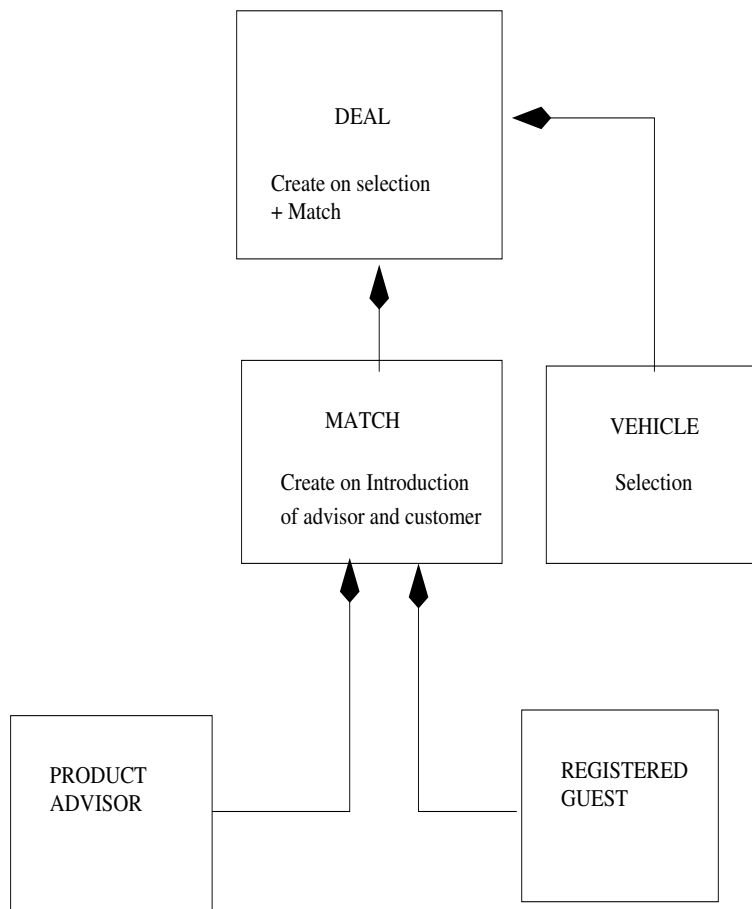


Figure 1: Match objects are created when guests and product advisors are introduced. Deal objects are created when a vehicle selection is also made. See text for further details.

1.6 Matches object

Matches objects record an interaction between Registered guest and product advisor. The list of Matches is private. Otherwise, registered guest data remains privileged in Matches. Matches expire if they are inactive for 7 days.

Instantiated: (1) when registered guest chooses advisor and advisor responds OR (2) when registered guest sends query and advisor responds

Private fields: creation date, id number, time to live

Matches fields include: Registered Guest, Product advisor, active or not

Methods: add vehicle, keep active, cancel match, view guest data

Views: list of matches visible to dealer associated with product advisor product advisor sees a page with registered guest data and link to chat history

1.7 Deal object

Deal objects record an interaction between Registered guest, Product advisor, vehicle selection and price, conditions (text field).

Instantiated: (1) when Match exists and vehicle selection is added OR (2) when vehicle selection exists and Match is added. Price will be set to full list price at this point.

Fields: Registered guest, Product advisor, Vehicle, Price. Status=provisional, pending, done.

If any condition exists then the deal is listed as provisional. A typical condition may be 'spouse approval' or 'awaiting counteroffer'. The product advisor on the deal can edit the condition, price and deal status fields.

Private fields: creation date, id number, time to live

Provisional deals expire after 2 weeks.

The list of deals is privileged and visible to the relevant dealer but not other dealers, nor to other product advisors.