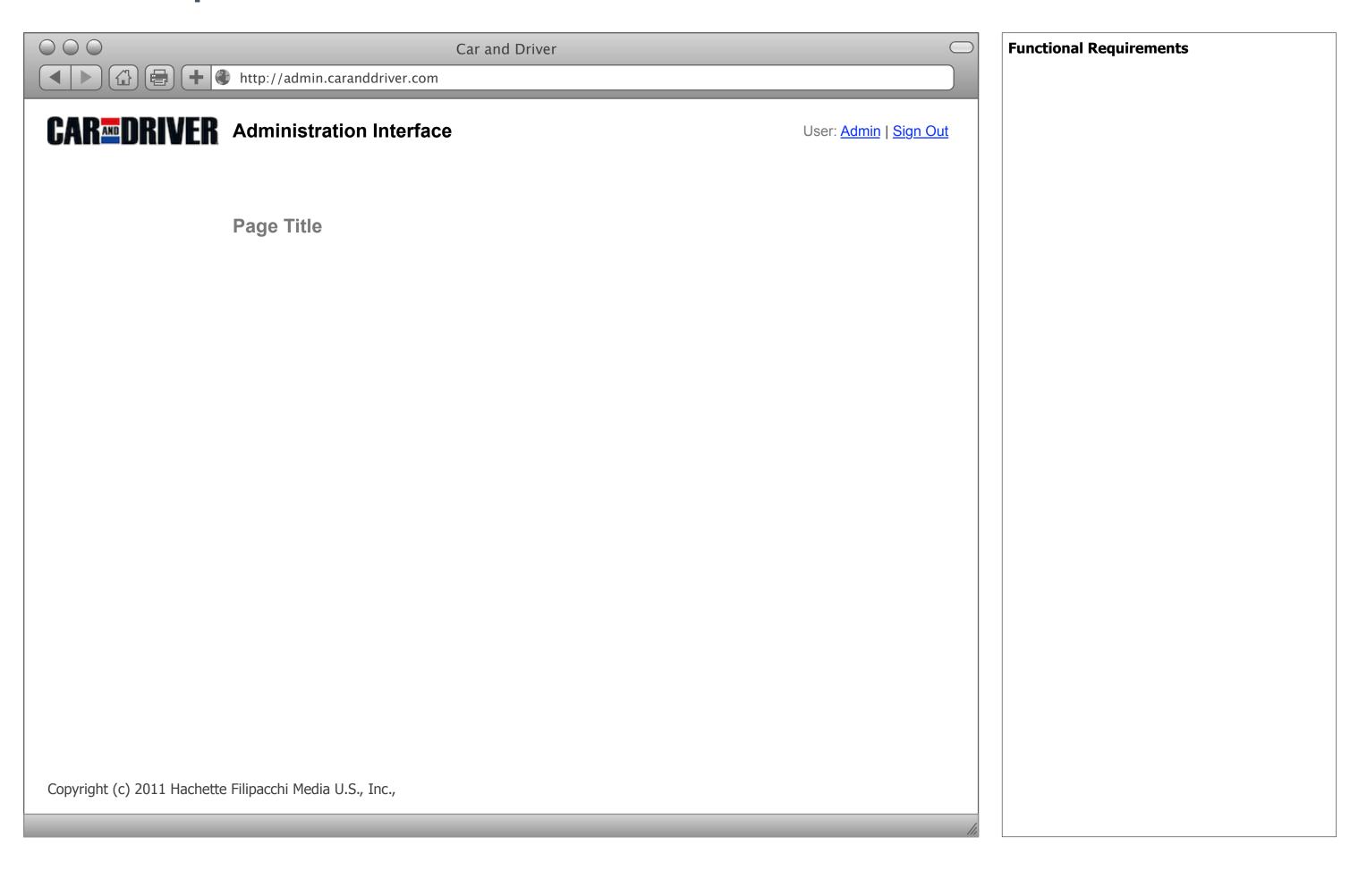
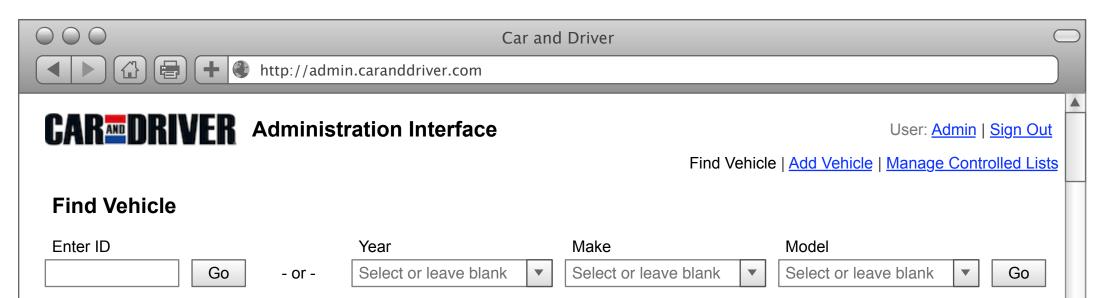
WF-0: Template



WF-1: Find Vehicle



Export: CSV | Excel

id	rt_published	rt_model_year	rt_controlled_make	rt_model	bg_make_id	bg_model_id	bg_submodel_id	bg_year_id
<u>4901</u>	Web	2009	Nissan	Murano SL AWD	Nissan			2009
<u>4902</u>	Web							
<u>4903</u>	Print	2007	BMW	328i	BMW			2007
<u>4904</u>	Print	2008	Cadillac	CTS DI	Cadillac			2008
<u>4905</u>	Print	2008	Infiniti	G35 Sport	Infiniti			2008
<u>4906</u>	Print	2008	Mercedes-Benz	C300 Sport	Mercedes- Benz			2008
<u>4907</u>	Print	2008	Lexus	IS F	Lexus			2008
<u>4908</u>	Print	2008	Chevrolet	Malibu LTZ	Chevrolet			2008
<u>4909</u>	Print	2008	Ford	Focus SES	Ford			2008
<u>4910</u>	Print	2008	Suzuki	SX4 Sport	Suzuki			2008
<u>4911</u>	Print	2006	Honda	Civic i-CTDi	Honda			2006
<u>4912</u>	Print	2008	Ford	Escape XLT AWD	Ford			2008
<u>4913</u>	Print	2008	Honda	CR-V EX 4wd	Honda			2008
<u>4914</u>	Print	2007	Hyundai	Tucson Limited 4wd	Hyundai			2007
<u>4915</u>	Print	2008	Jeep	Liberty Limited 4x4	Jeep			2008
<u>4916</u>	Print	2008	Mitsubishi	Outlander ES	Mitsubishi			2008
<u>4917</u>	Print	2008	Nissan	Rogue SL AWD	Nissan			2008

Prev. 1 2 3 4 5 Next

Functional Requirements

We need to decide which fields to display on the "Find Vehicle" search. All columns? Just a handful (i.e. ID, Year, Make, Model)?

Columns highlighted in red overlap with each other. We need to determine which ones to use (Chrome or bg one's I assume?) rt_model_year <--> bg_year_id rt_controlled_make <--> bg_make_id rt_model <--> bg_model_id

On page load, show all results starting in ascending order by "id".

Paginate results to 25 results at a time? (only showing enough for wireframe purposes)

User can enter either a single id and search returns a single record that matches.

- or-

User can pick from dropdown's to search for results that match values in the filters.

Year --> bg_year

Make --> bg_make

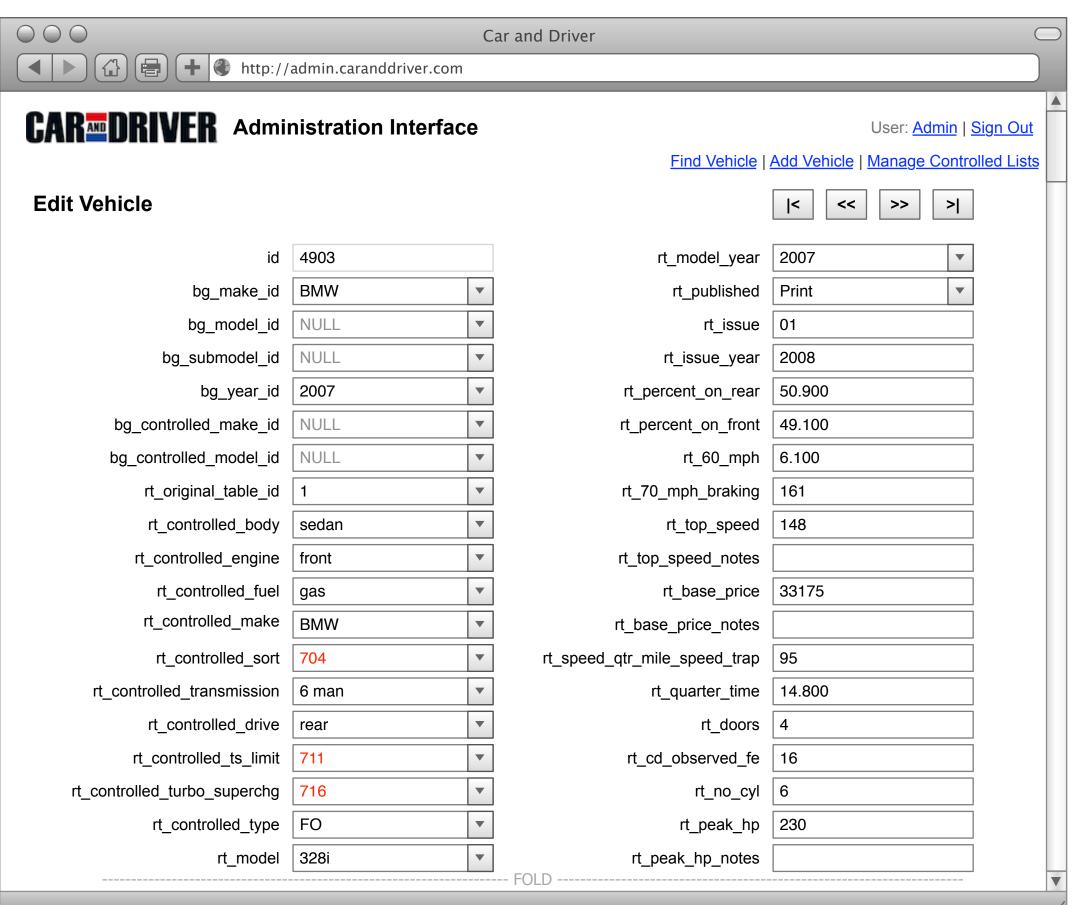
Model --> bg_model + bg_make_id from bg_make selection

If user clicks on "CSV", generate and download CSV file with ALL fields for results listed on page.

If user clicks on "Excel", generate and download Excel file with ALL fields for results listed on page.

If user clicks on "id", take user to WF-2.1: Edit Vehicle 1.

WF-2.1: Edit Vehicle 1



Functional Requirements

id = read only value

DB stores integer values to id the row in the related table. We need to return and display the corresponding "name" value in the drop down list.

bg_make_id --> bg_make bg_model_id --> bg_model bg_year_id --> bg_model

Since bg_model also includes bg_make_id, only return the values which match the bg make too.

Example:

 $bg_make_id = 29 (BMW)$ Only return "name" values from bg model where $bg_make_id = 29$

Use the rt_dropdown_lookup to filter on "id_types" and return "description" from rt dropdown descriptions for the following fields

rt controlled body = 1rt controlled engine = 3 rt_controlled_fuel = 4

rt controlled make = 5 rt controlled sort = 7

rt controlled transmission = 8

rt_controlled_drive = 2 rt controlled ts limit = 9

rt_controlled_turbo_superchg = 10

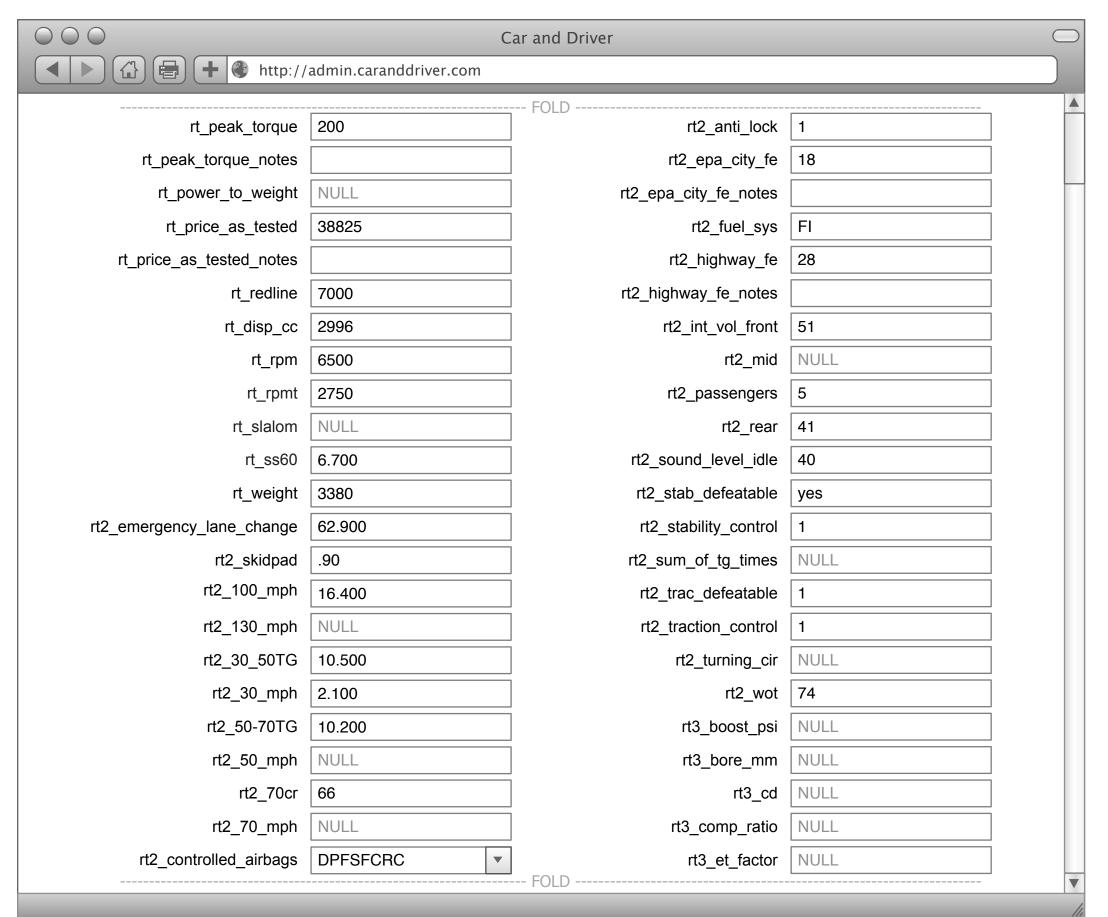
rt controlled type = 11 rt2 controlled airbags = 6

Example:

Body --> id types = 1 Only return "descriptions" which match "id_types"

No matched values for those marked in red. Looks like there may be a gap in values in rt dropdown descriptions.

WF-2.2: Edit Vehicle 2



Functional Requirements

We will need to come up with more user-friendly, "layman" terms labels for the form.

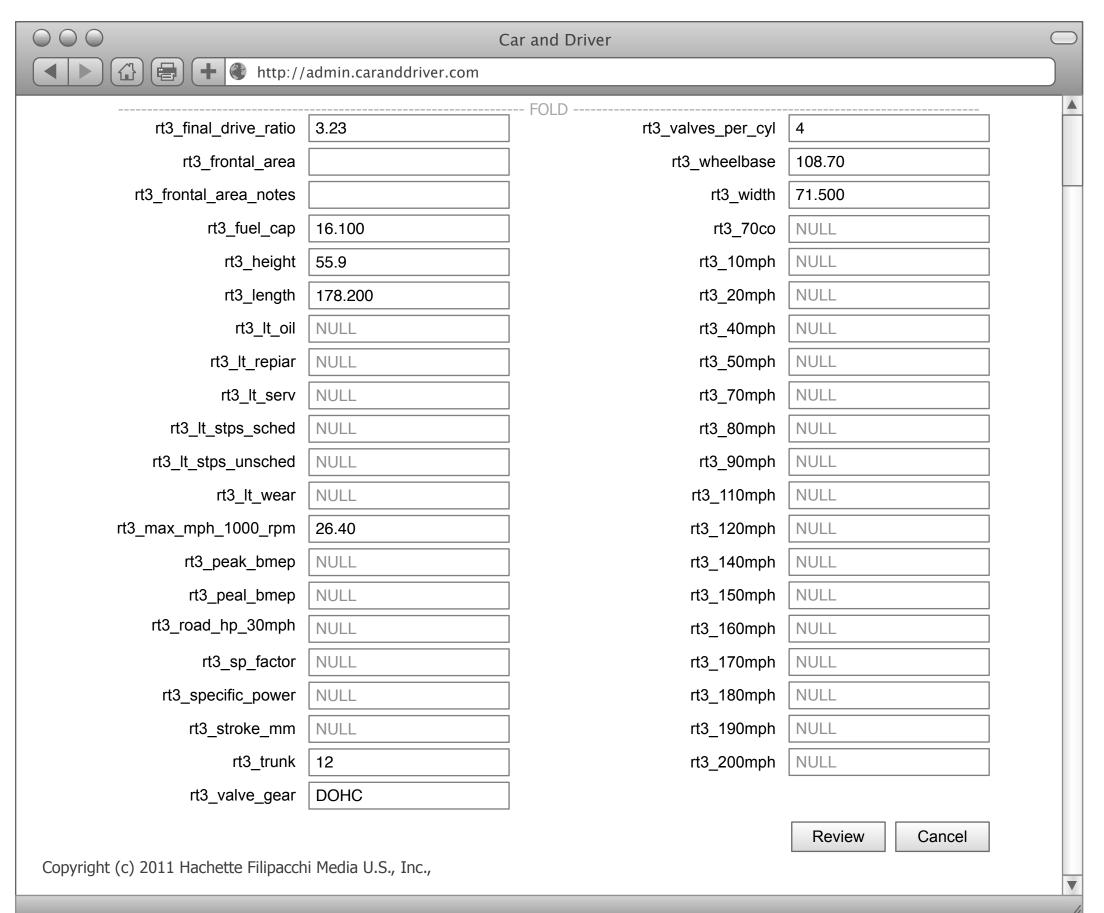
Also, need to decide on order of fields. Currently, using order out from DB tables rt results main

rt_results_level_2

rt_results_level_3

See separate spreadsheet with all the fields listed. We will need to fill this out and then map those changes when building the actual forms.

WF-2.3: Edit Vehicle 3



Functional Requirements

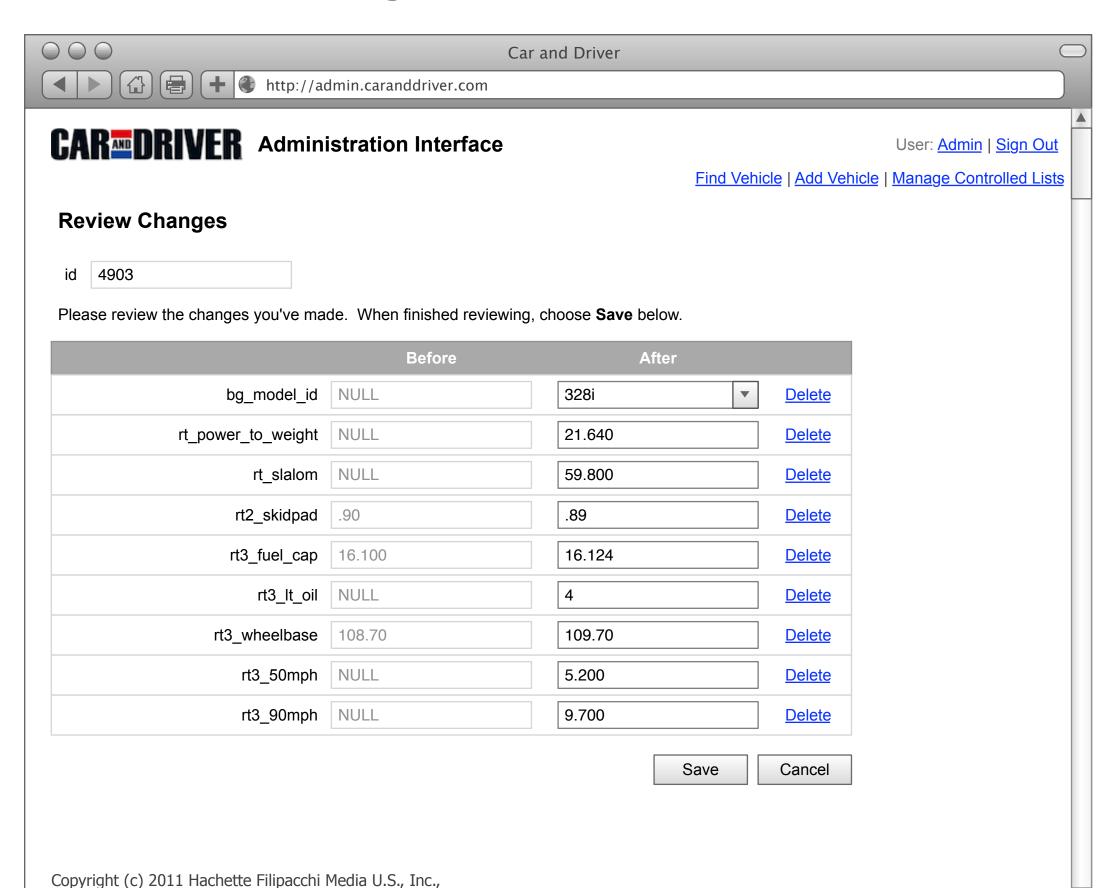
We need to consider data validation on a field by field basis. Things to consider...

- integer vs decimal (float)
- no. decimal points
- data range (min/max)

We can use the accompanying spreadsheet to add this data validation points.

"Review" --> takes user to WF-2.4: Review Changes and give the user a chance to review the changes before saving to the DB.

WF-2.4: Review Changes



Functional Requirements

id = read-only

Only page load, only show the fields changed from WF-2.1 thru 2.3.

"Before" shows previous value entered.

"After" shows new value to be entered.

"Before" fields are read-only, while "After" fields can still be edited by the user.

Same validation rules would apply here, along with labeling, formatting, etc.

"Delete" --> removes change from being written to DB

"Save" --> writes these changes to the DB in the respective table(s).

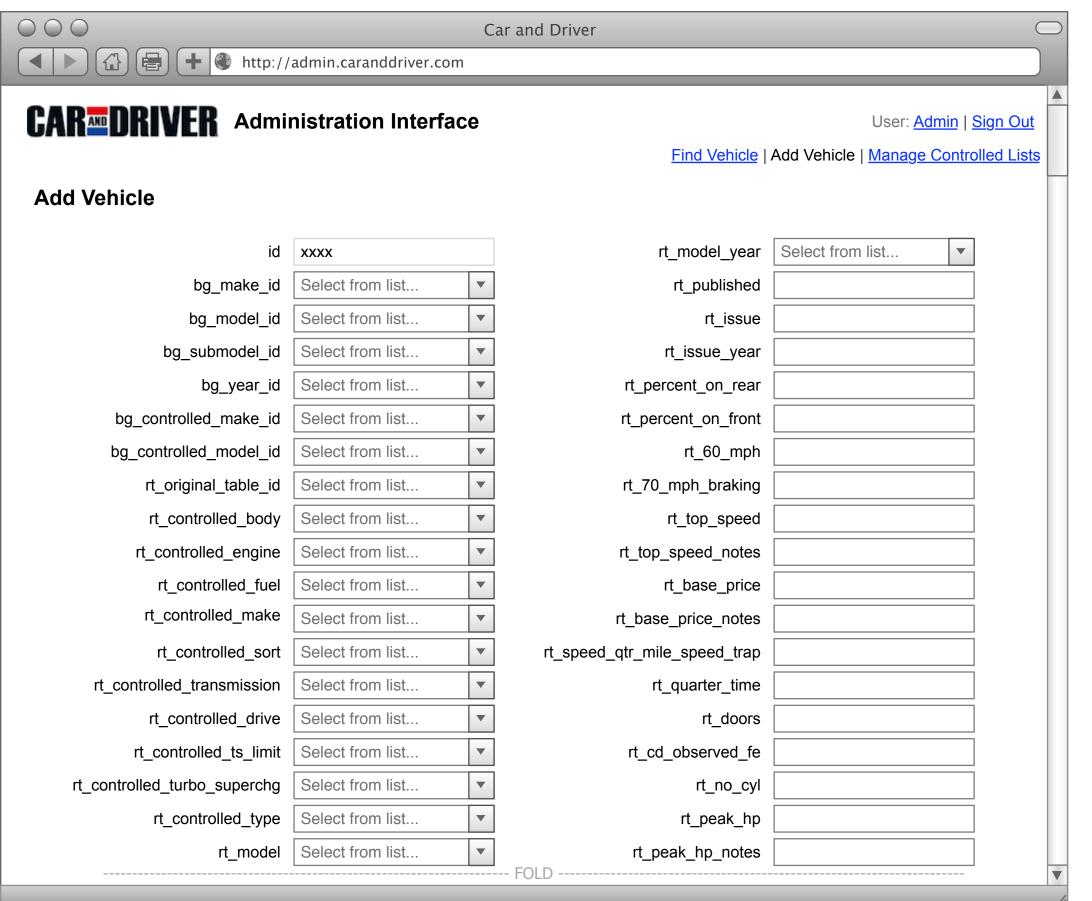
"Cancel" --> removes all changes from memory

Non-Functional Requirements

 \blacksquare

Need to keep a running history or audit trail to keep track of changes made by user(s).

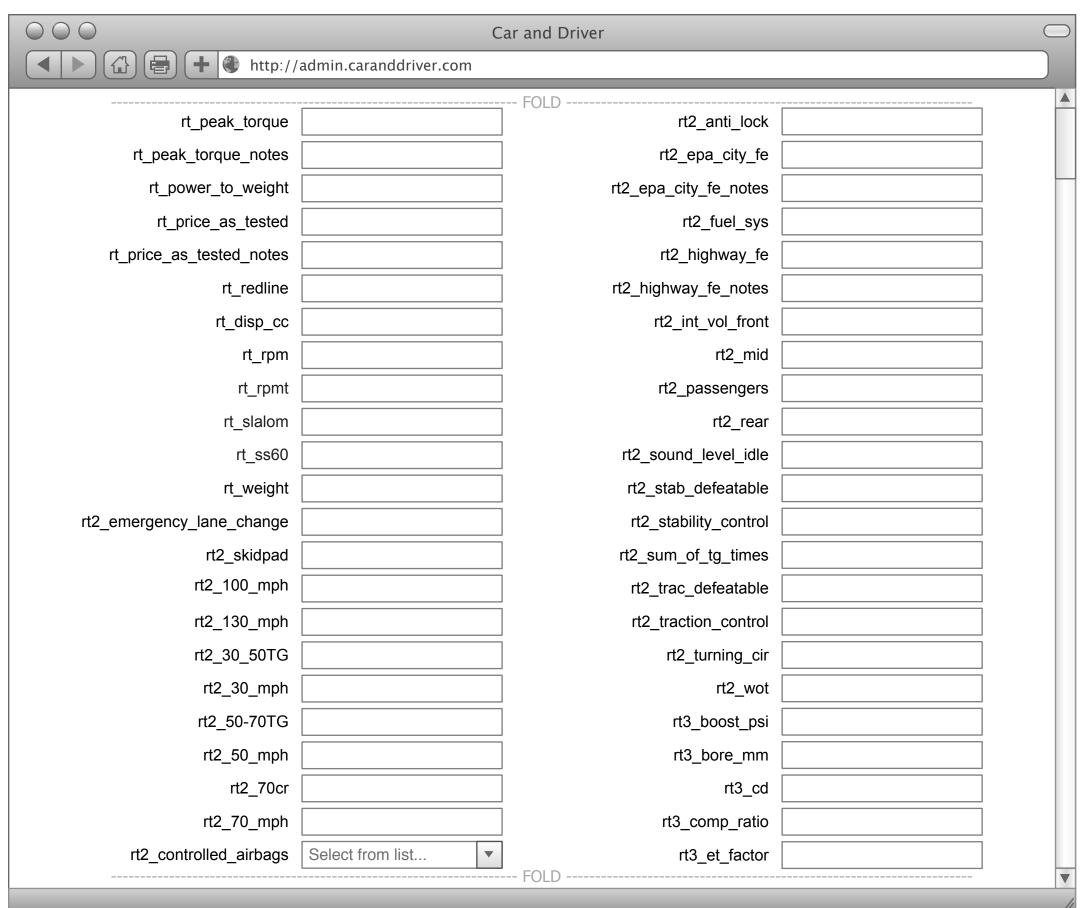
WF-1: Add Vehicle



Functional Requirements

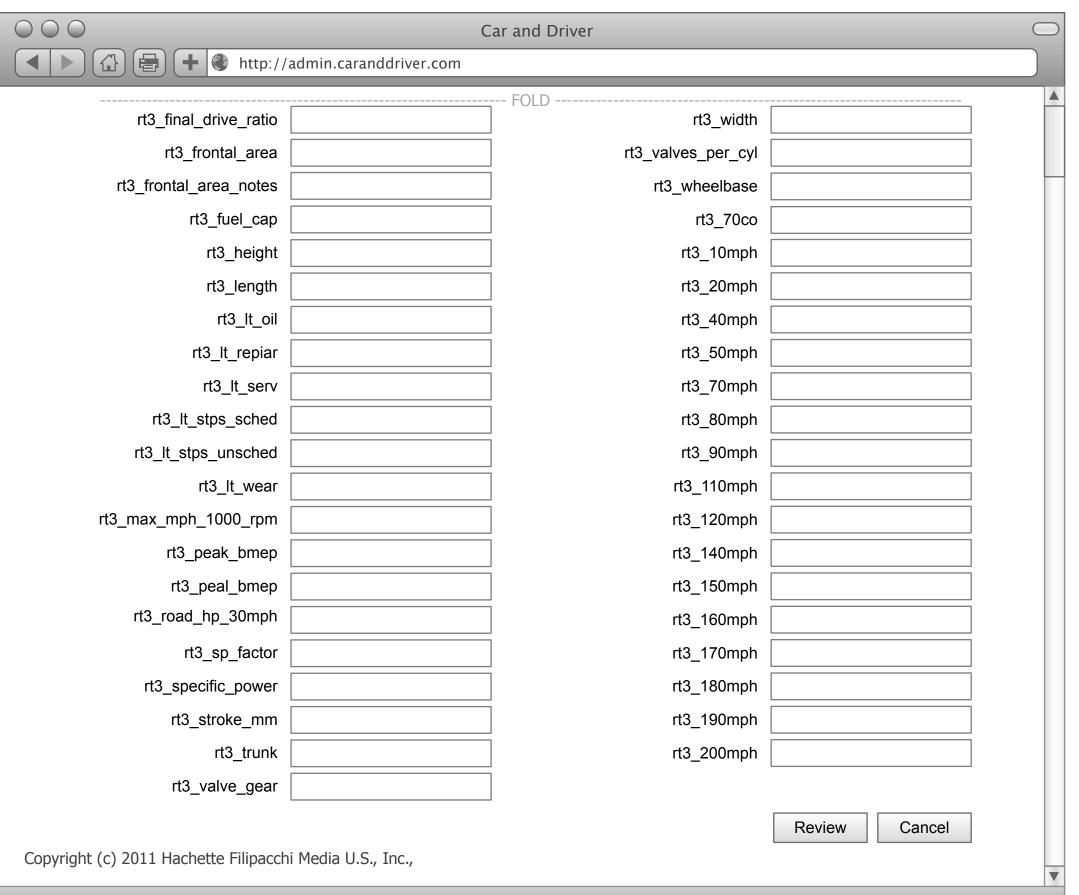
Same requirements hold true from "Edit Vehicle" wrt controlled lists, labels, field ordering.

WF-1: Add New Vehicle



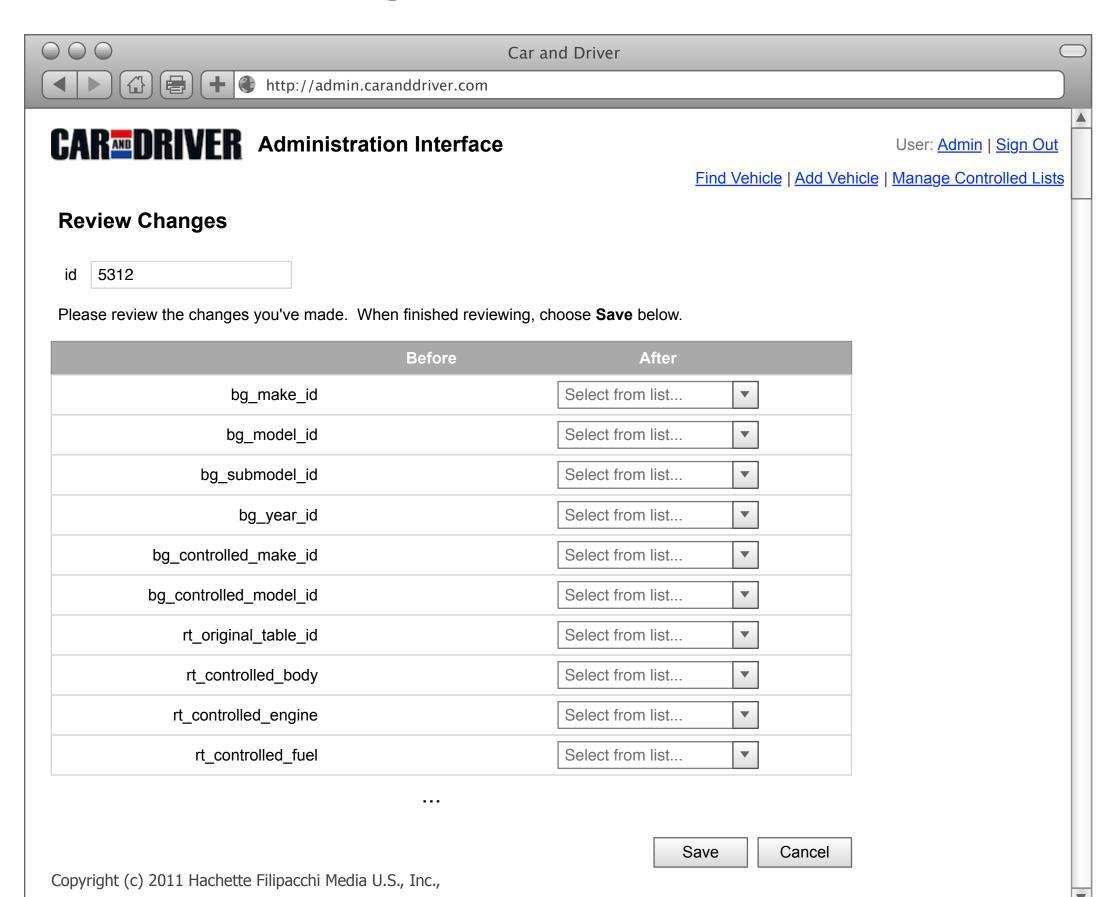
Function	al Require	ements	

WF-1: Add New Vehicle



Functional Requirements

WF-3.4: Review Changes



Functional Requirements

id = read-only, auto increment +1 from last record

Only page load, show ALL fields from WF-3.1 thru 3.3.

Since new entry, nothing to display under "Befor" column.

"After" shows new values to be entered.
"After" fields can still be edited by the user.

Same validation rules would apply here, along with labeling, formatting, etc.

Suppress "Delete" link.

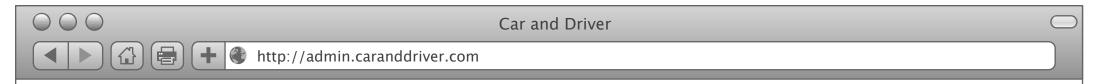
"Save" -->

- 1. creates a new row in each of the tables.
- 2. writes these changes to the DB in the respective tables.

"Cancel" -->

- 1. remove auto increment
- 2. remove values from memory

WF-4.0: Manage Controlled Lists





User: Admin | Sign Out

Find Vehicle | Add Vehicle | Manage Controlled Lists

Manage Controlled Lists

New Controlled List

Action	List Name	No. Records	In Use
<u>Edit</u>	bg_year	112	✓
Edit	bg_make	67	✓
Edit	bg_model	800	✓
Edit	rt_dropdown_types	11	✓
<u>Edit</u>	rt_dropdown_lookup	768	✓
Edit	rt_dropdown_descriptions	768	✓
Edit Delete	test_list	800	

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Functional Requirements

Do admin's need ability to add/delete entire controlled lists? Or, simply add/edit/delete entries within a controlled list?

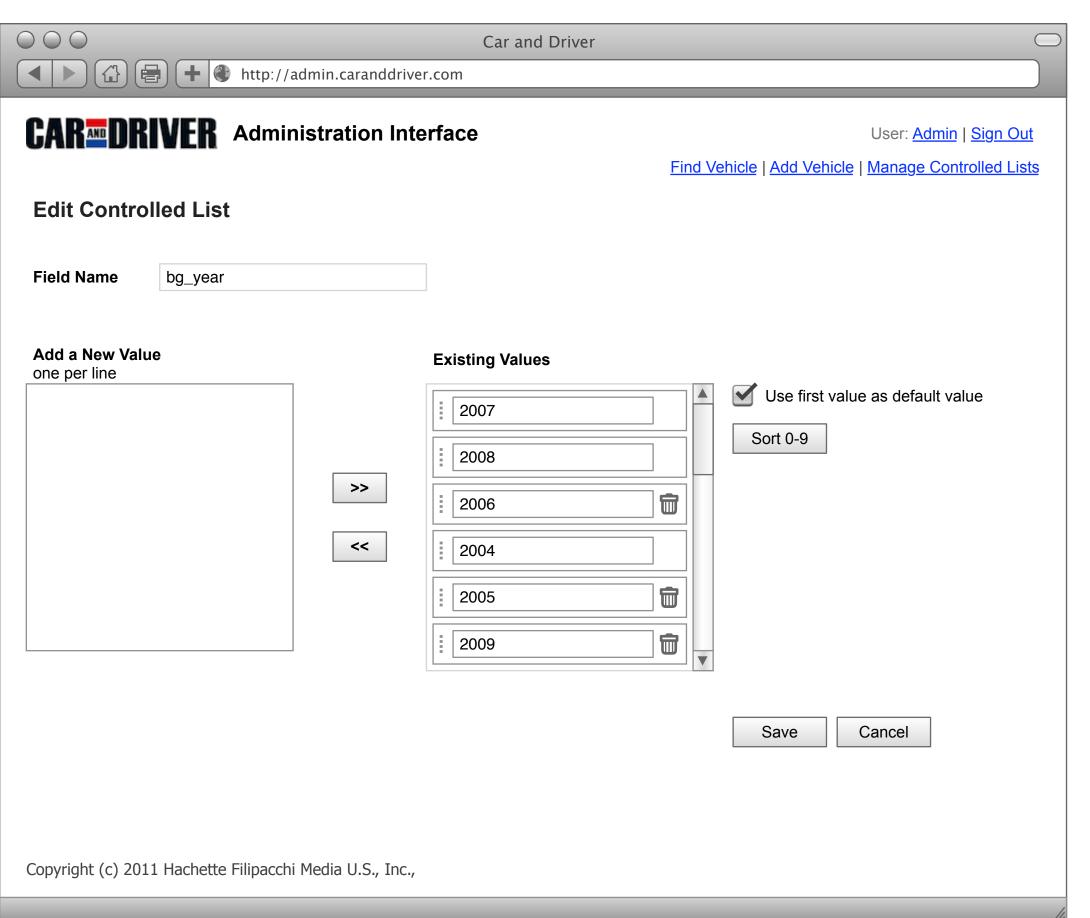
"Edit" --> takes user to WF-4.1 or WF-4.2, governed by table relationships or dependencies

"Delete" only available if no check under "In Use"

"No. Records" is a count of the number of records in the table

"In Use" check appears if the controlled list is in use by any row in the DB

WF-4.2: Edit Controlled List (bg_year)



Functional Requirements

"Field Name" is a read only?

"Add a New Value" allows the user to enter multiple values to be added to the list.

"Existing Values" shows all the current values in the list.

">>" adds items from "Add a New Value" to "Existing Values"

"<<" removes items from "Existing Values"

To re-arrange the list order, user can click and drag list item in the order they would like to see it.

Also, user can "delete" entry if the garbage can is visible next to the entry. Garbage can will only show up if the entry is NOT in use. Otherwise, no garbage can is displayed.

"name" data validation = integer? text?

Upon "Save"...

New Values

- 1. auto increment id +1 from last record
- 2. add new row to table
- 3. generate "url_alias" by using same value as "name"

Example

id = 1

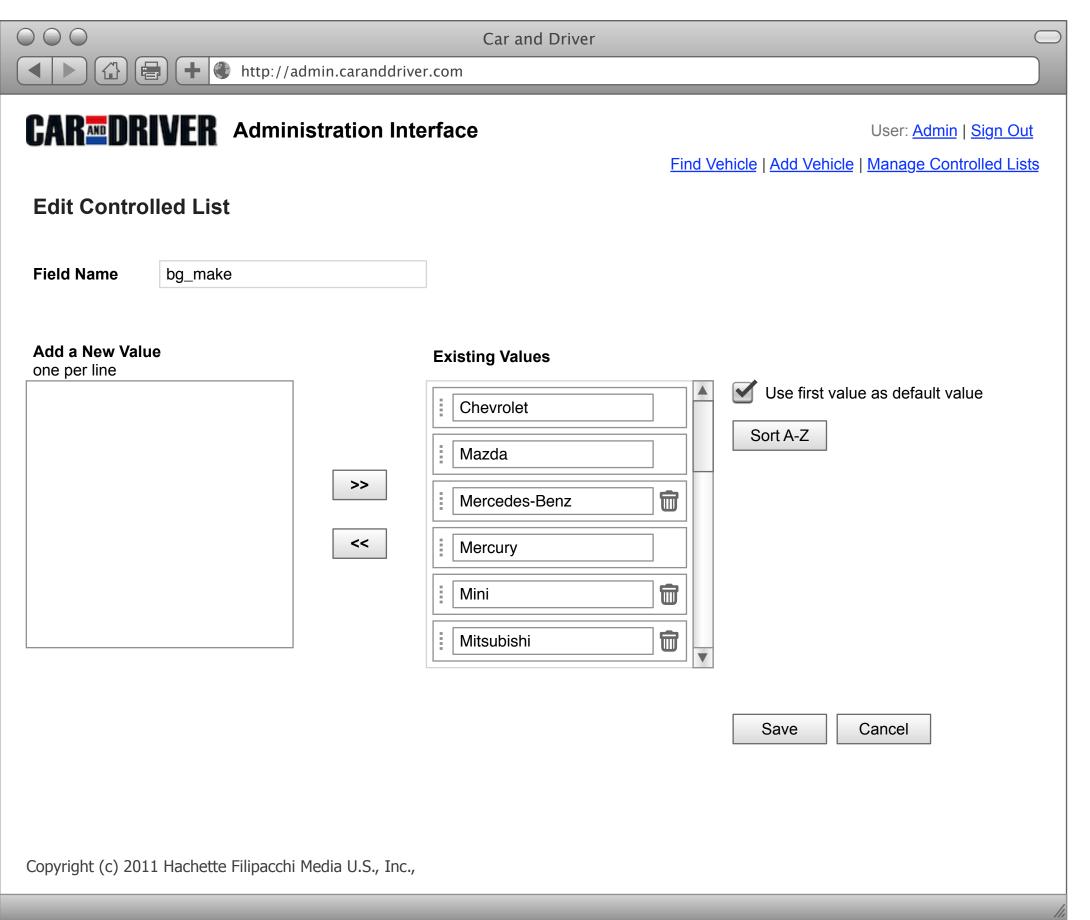
name = 2007

url alias = 2007

4. record new entry

Existing Values

WF-4.2: Edit Controlled List (bg_make)



Functional Requirements

"Field Name" is a read only?

"Add a New Value" allows the user to enter multiple values to be added to the list.

"Existing Values" shows all the current values in the list.

">>" adds items from "Add a New Value" to "Existing Values"

"<<" removes items from "Existing Values"

"name" data validation = first letter of each word capitalized?

market_segment?

Upon "Save"...

New Values

- 1. auto increment id +1 from last record
- 2. add new row to table
- 3. generate "url_alias" by making name all lowercase and inserting dash in between multiple word entries

Example

id = 2

name = Chevrolet

url_alias = chevrolet

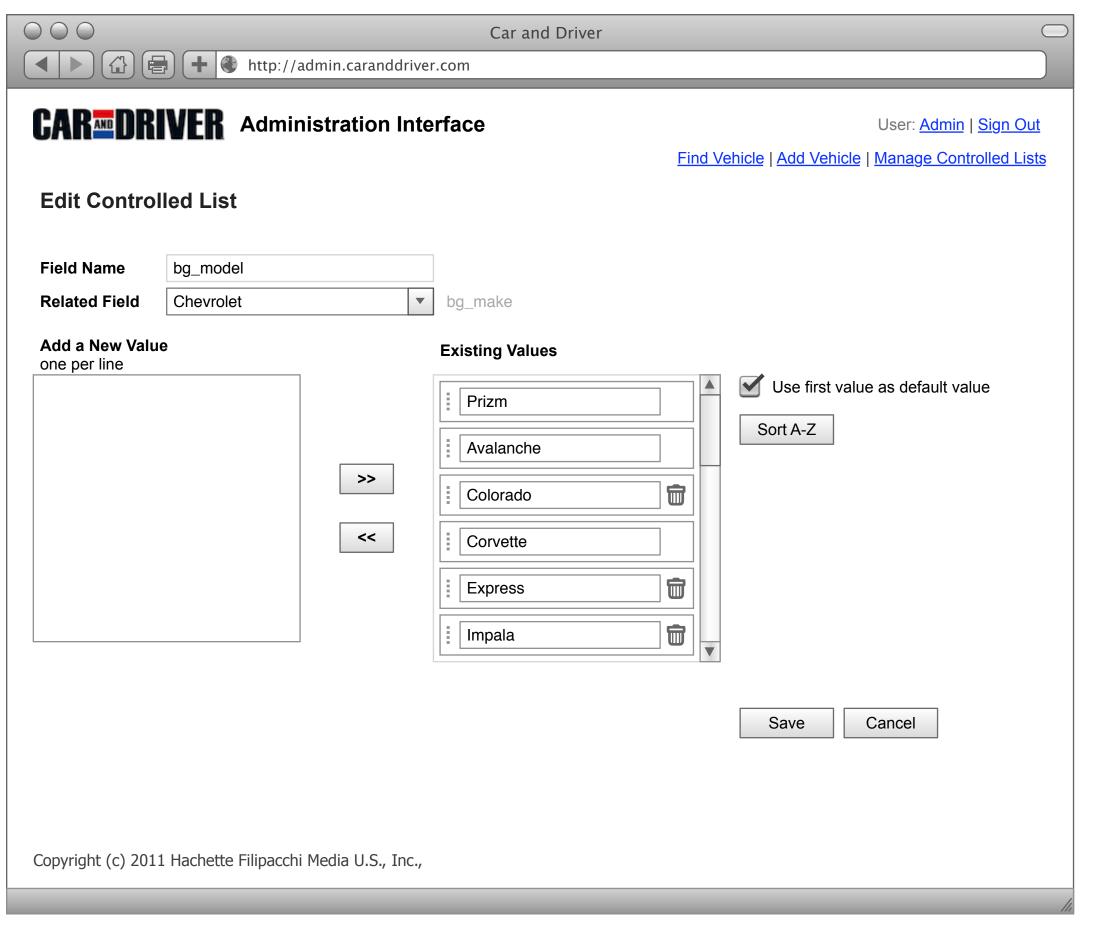
id = 4

name = Mercedes-Benz url alias = mercedes-benz

4. record new entry

Existing Values

WF-4.3: Edit Controlled List (bg_model)

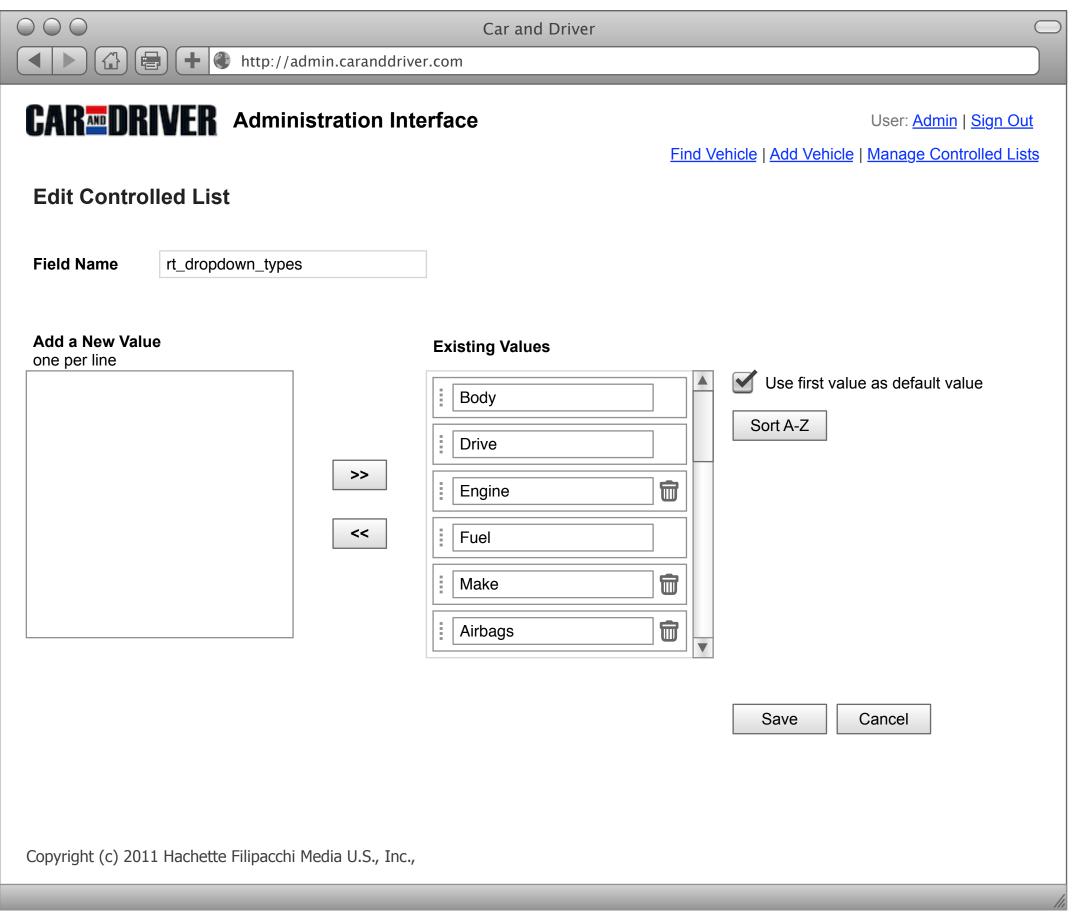


Functional Requirements

Same requirements as WF-4.3

However, since bg_model is dependent on bg_make, show the "Related Field" dropdown with "name" matching bg_make_id.

WF-4.4: Edit Controlled List (rt_dropdown_types)



Functional Requirements

"Field Name" is a read only?

"Add a New Value" allows the user to enter multiple values to be added to the list.

"Existing Values" shows all the current values in the list.

">>" adds items from "Add a New Value" to "Existing Values"

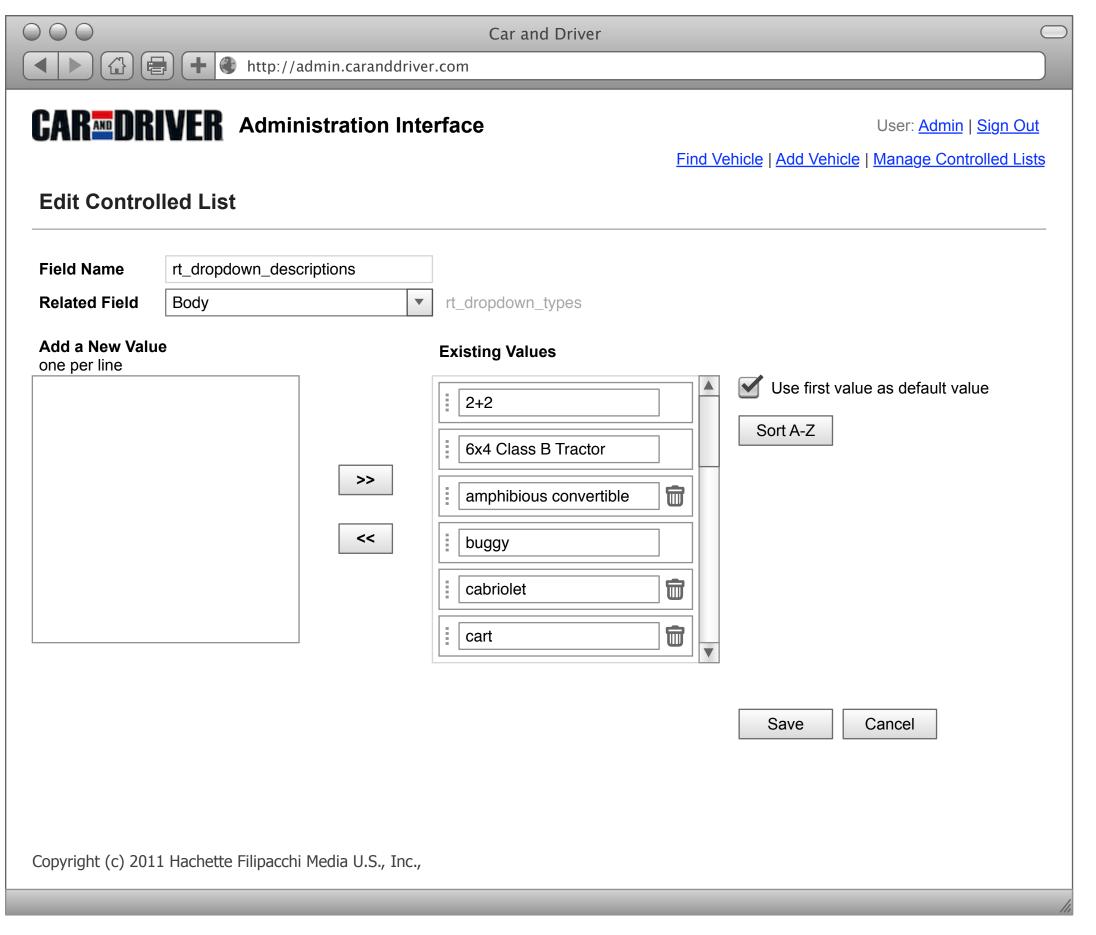
"<<" removes items from "Existing Values"

To re-arrange the list order, user can select a list item and then use the "Up" or "Down" arrows to move the item in the list.

Upon "Save"...

Any new values added --> auto increment id +1

WF-4.5: Edit Controlled List (rt_dropdown_descriptions)



Functional Requirements

Same requirements as WF-4.4

However, since rt_dropdown_lookup ties together rt_dropdown_descriptions to the rt_dropdown_types, show "rt_types" from rt_dropdown_types in the "Related Field" dropdown.