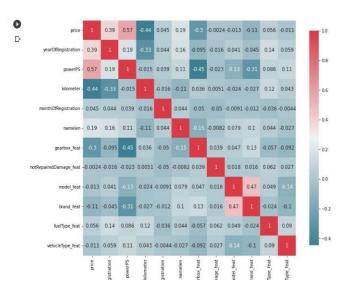
# PROJECT DEVELOPMENT PHASE (DELIVERY OF SPRINT-1)

Date	19 November 2022
Team ID	PNT2022TMID39573
Project Name	Car Resale Value prediction
Maximum marks	4 Marks

## Import Library and load the data set:

	dateCrawled	name	seller	offerType	price	abtest	vehicleType	yearOfRegistration	gearbox	powerPS	model	kilometer	monthOfRe
35533	2016-04-01 16:52:24	Peugeot_206_5Tuerer_Klima_EI_Fenster_2_Hand_8f	privat	Angebot	999	control	kleinwagen	1999	manuell	75	2_reihe	150000	
104233	2016-03-26 20:58:26	Citroën_C4_Picasso_2.0_HDI_FAP_EGS6_Exclusive	privat	Angebot	9500	control	bus	2008	automatik	136	c4	125000	
81172	2016-04-01 22:53:21	Volkswagen_Passat_Variant_1.9_TDI_DPF_Comfortline	privat	Angebot	6666	test	kombi	2009	manuell	105	passat	150000	
362697	2016-03-09 14:37:44	BMW_E36_Limo	privat	Angebot	2900	test	NaN	2017	NaN	0	andere	150000	
147593	2016-03-21 08:54:07	Ford_Mondeo_an_Bastler	privat	Angebot	250	control	kombi	1999	manuell	0	mondeo	150000	
254916	2016-03-26 12:45:47	Golf_VII_2.0TDI_DSG_Cup	privat	Angebot	22500	control	limousine	2014	automatik	150	golf	40000	
264392	2016-03-27 16:59:13	Peugeot_307_Premium_4Tuerig_Diesel	privat	Angebot	2790	test	NaN	2017	manuell	109	3_reihe	150000	
0.40500	2016-03-19	Mallower Provide Middle CO. TOD Toronto	not cat	Annahar	0450	to - t	Least 1	0000		440		450000	



### Understanding and analyzing the dataset by Correlation:

#### Clearing the null values:

```
[] dedups['notRepairedDamage'].fillna(value='not-declared', inplace=True)
dedups['fuelType'].fillna(value='not-declared', inplace=True)
dedups['gearbox'].fillna(value='not-declared', inplace=True)
dedups['wehicleType'].fillna(value='not-declared', inplace=True)
dedups['model'].fillna(value='not-declared', inplace=True)

dedups['namelen'] = [min(70, len(n)) for n in dedups['name']]
ax = sns.jointplot(x='namelen',
y='price',
data=dedups[['namelen','price']],
data-dedups[['namelen','price']][dedups['model']=='golf'],
alpha=0.1,
size=8)

[] /usr/local/lib/python3.7/dist-packages/seaborn/axisgrid.py:2182: UserWarning: The `size` parameter has been renamed to `height'; please update your code.
warnings.warn(msg, UserWarning)
```

#### Preprocessing the Categorical values: