
P3 Design and Description

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Here are all the features of BMW 2 Series:

The image shows a configuration interface for the BMW 2 Series. It consists of several panels, each with a title and a list of options, each preceded by a radio button. The panels are: Body, DriveTrain, Fuel, MSRP, HorsePower, and FuelEfficiency.

Body	DriveTrain	Fuel	MSRP	HorsePower	FuelEfficiency
<input type="radio"/> Sedan	<input type="radio"/> xDrive	<input type="radio"/> Hybrid	<input type="radio"/> \$32100	<input type="radio"/> HP240	<input type="radio"/> MPG30
<input type="radio"/> Coupe	<input type="radio"/> RearWheel	<input type="radio"/> Gasoline	<input type="radio"/> \$33900	<input type="radio"/> HP320	<input type="radio"/> MPG32
<input type="radio"/> GranCoupe		<input type="radio"/> Electric	<input type="radio"/> \$43100		<input type="radio"/> MPG35
<input type="radio"/> Convertible		<input type="radio"/> Diesel	<input type="radio"/> \$44900		<input type="radio"/> MPG36
<input type="radio"/> SportsActivityVehicle					
<input type="radio"/> Roadster					
<input type="radio"/> SportsActivityCoupe					
<input type="radio"/> SportsWagon					
<input type="radio"/> GranTurism					

The feature model is designed in model.xml. In reality we discover that only one features in a parent feature can be selected (chooseone constraint). We do not discover any cross-tree constraints.

In addition to the feature model, we also created the four BMW 2 series products in the configuration files. Each configuration corresponds to one

product. As a matter of fact, all the 4 products can be fully described by the feature model.