**Project Description:** A graphical user interface developed in Java that allows a user to configure a 2018 Porsche 718 Cayman S to their desired specification. The interface includes real-time displays of user-initiated changes to the Cayman’s configuration in terms of both the pictured model and calculated price. The user will be able to choose such items as exterior color, wheel style, interior color, transmission, and other additional upgrades. Upon completion, the user can click a “Show Overview” button to be presented with their exact specification in summarized form. The user will also have the option to save the specification as a local .csv file titled “cayman-spec.csv” by clicking a “Save” button.

**Technical Information:** The GUI is developed using Java SE 8 and the NetBeans 8.2 IDE with Swing components. Model information, images, and configuration options are sourced from the Porsche website (<https://www.porsche.com/usa/modelstart/all/?modelrange=718>)

**Program Design:**

1. Project File Structure: TBD

Common Specifications:

* Base Price 718 Cayman S - $67,700
* Engine Layout – Mid-Engine
* Design and Cylinders – Turbocharged Boxer 4
* Displacement – 2.5L
* Max. Power – 350 HP @ 6,500 rpm
* Max. Torque – 309 lb-ft @ 1,900 rpm
* Drivetrain – Rear-wheel drive
* Manual transmission – 6-speed manual
* Automatic transmission – 7-speed Porsche Doppelkupplung (PDK)

Transmission:

* Manual Transmission - $0
* Porsche Doppelkupplung (PDK) - $3,210

Exterior Color:

* Guards Red - $0
* Racing Yellow - $0
* Jet Black Metallic - $650
* Carrera White Metallic - $650
* Miami Blue - $2,580

Wheels:

* 20” 911 Turbo Wheels - $3,570
* 19” Cayman S Wheels - $0
* 20” Carrera S Wheels - $1,590

Interior:

* Standard Interior in Black - $0
* Leather Interior in Bordeaux Red - $2,950
* Natural Leather Interior in Espresso/Cognac - $4,470

Interior Upgrades:

* Seat Heating - $530 (NONVIS)
* BOSE® Surround Sound System - $990 (NONVIS)
* Navigation Module for Porsche Communication Management (PCM) - $1,780 (NONVIS)
* Porsche Active Suspension Management (PASM) - $1,790 (NONVIS)

TODO:

-Display Specs button (JOptionPane, HP, Torque, etc.)

-File I/O to save spec with Save button from SHOW OVERVIEW button

-ShowOverview joptionpane

-comment code

-finish documentation