York University

EECS 3311 SUMMER 2016
SOFTWARE DESIGN

ADT − > CAR DESIGN BUSINESS OBJECT NOTATION (BON DIAGRAM)

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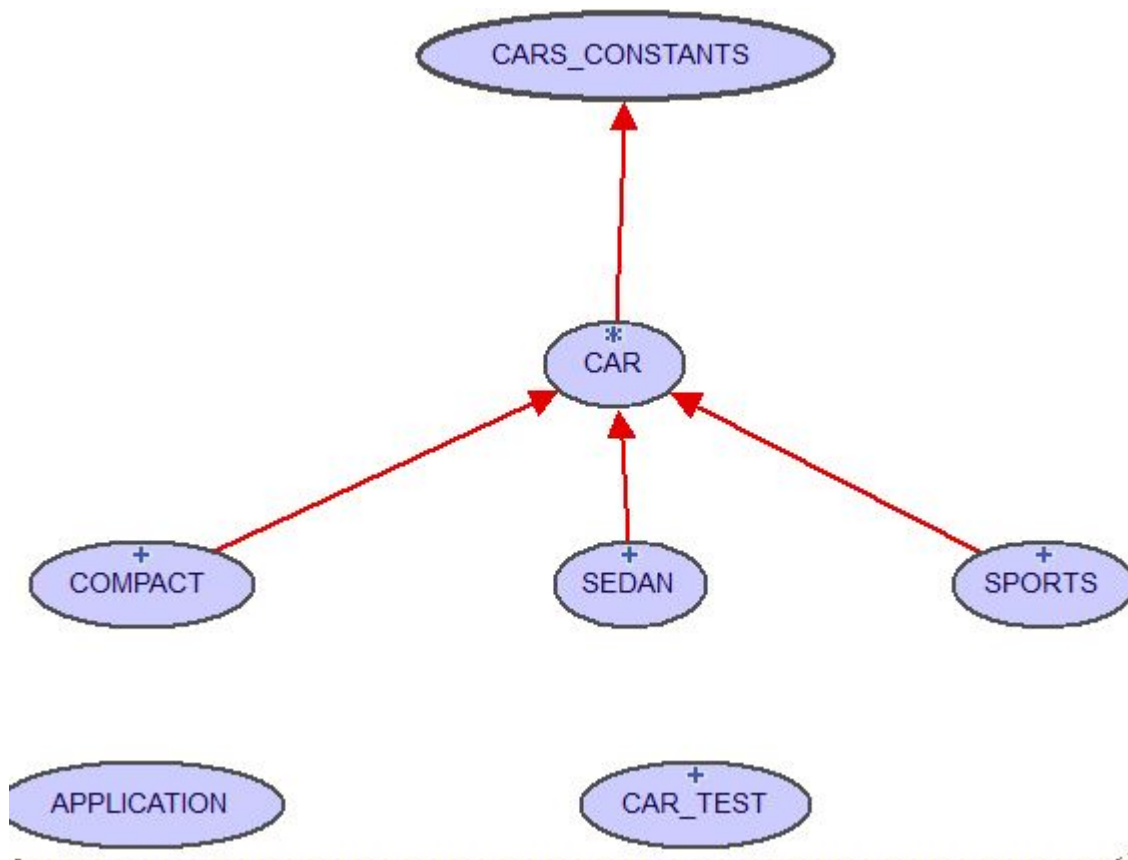CSE 23004
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2   OPTIONAL UML DIAGRAM DIAGRAMS

CAR
- <<>>
+ car_fuel: INTEGER_32
+ car_speed: INTEGER_32

- <<>>
+ gas
+ accelerate
+ brake

{effective}
COMPACT

- << Access (fields>>
+ gas: INTEGER_32
+ speed: INTEGER_32
+ speed_limit: INTEGER_32
+ gas_max: INTEGER_32
- << Status report>>
+ get_fuel: INTEGER_32
- << Status setting>>
+ get_speed: INTEGER_32
- << Implementation>>
+ car_fuel: INTEGER_32
+ car_speed: INTEGER_32
+1 <<>>

- << Initialization>>
- make
- << Miscellaneous>>
+ close_file
+ refill_fuel (f: INTEGER_32)
- << Basic operations>>
+ gas_compact
+ accelerate_compact
+ brake

{effective}
SEDAN

- << Access (fields)>>
+ gas: INTEGER_32
+ speed: INTEGER_32
+ speed_limit: INTEGER_32
+ gas_max: INTEGER_32
- << Status report>>
+ get_fuel: INTEGER_32
+ get_speed: INTEGER_32
- << Implementation>>
+ car_fuel: INTEGER_32
+ car_speed: INTEGER_32
- <<>>
+ output_file: PLAIN_TEXT_FILE

- << Initialization>>
- make
- << Implementation>>
+ close_file
+ refill_fuel (f: INTEGER_32)
- << Basic operations>>
+ gas_sedan
+ accelerate
+ brake

{effective}
SPORTS

- << Access (fields>>
+ gas: INTEGER_32
+ speed: INTEGER_32
+ speed_limit: INTEGER_32
+ gas_max: INTEGER_32
- << Status report>>
+ get_fuel: INTEGER_32
+ get_speed: INTEGER_32
- << Implementation>>
+ car_fuel: INTEGER_32
+ car_speed: INTEGER_32
- <<>>
+ output_file: PLAIN_TEXT_FILE

- << Initialization>>
- make
- << Miscellaneous>>
+ refill_fuel (f: INTEGER_32)
- << Basic operations>>
+ gas_sports
+ accelerate_sports
+ brake
+ close_file