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| RestaurantManager |
| -\_restaurants: AbstractRestaurant[]  -\_next\_available\_id: int |
| +add(restaurant : AbstractRestaurant)  +get(id : int) : AbstractRestaurant  +get\_all() : AbstractRestaurant[]  +get\_all\_by\_type() : AbstractRestaurant[]  +restaurant\_exists(id : int)  +update(restaurant : AbstractRestaurant)  +delete(id : int)  +get\_restaurant\_stats() : RestaurantStats |

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| AbstractRestaurant |
| -\_id : int  -\_name : string  -\_num\_employees : int  -\_location : string  -\_year\_opened : int |
| + get\_id() : int  + set\_id(id : int)  + get\_name() : string  + get\_num\_employees() : int  + get\_location() : string  + get\_years\_open() : int  *+ get\_details() : string*  *+ get\_type() : string* |

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| RestaurantStats |
| -\_total\_num\_restaurants : int  -\_num\_fine\_dining : int  -\_num\_fast\_food : int  -\_avg\_years\_opened : float |
| -\_get\_total\_num\_restaurants() : int  -\_get\_num\_fine\_dining() : int  -\_get\_num\_fast\_food() : int  -\_get\_avg\_years\_opened() : float |

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| FineDining |
| - \_num\_michelin\_stars : int  - \_chef\_name : string |
| + get\_num\_michelin\_stars() : int  + get\_chef\_name() : string  + get\_details() : string  + get\_type() : string |

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| FastFood |
| - \_num\_locations : int  - \_has\_drivethrough : bool |
| + get\_num\_locations() : int  + get\_has\_drivethrough() : bool  + get\_details() : string  + get\_type() : string |