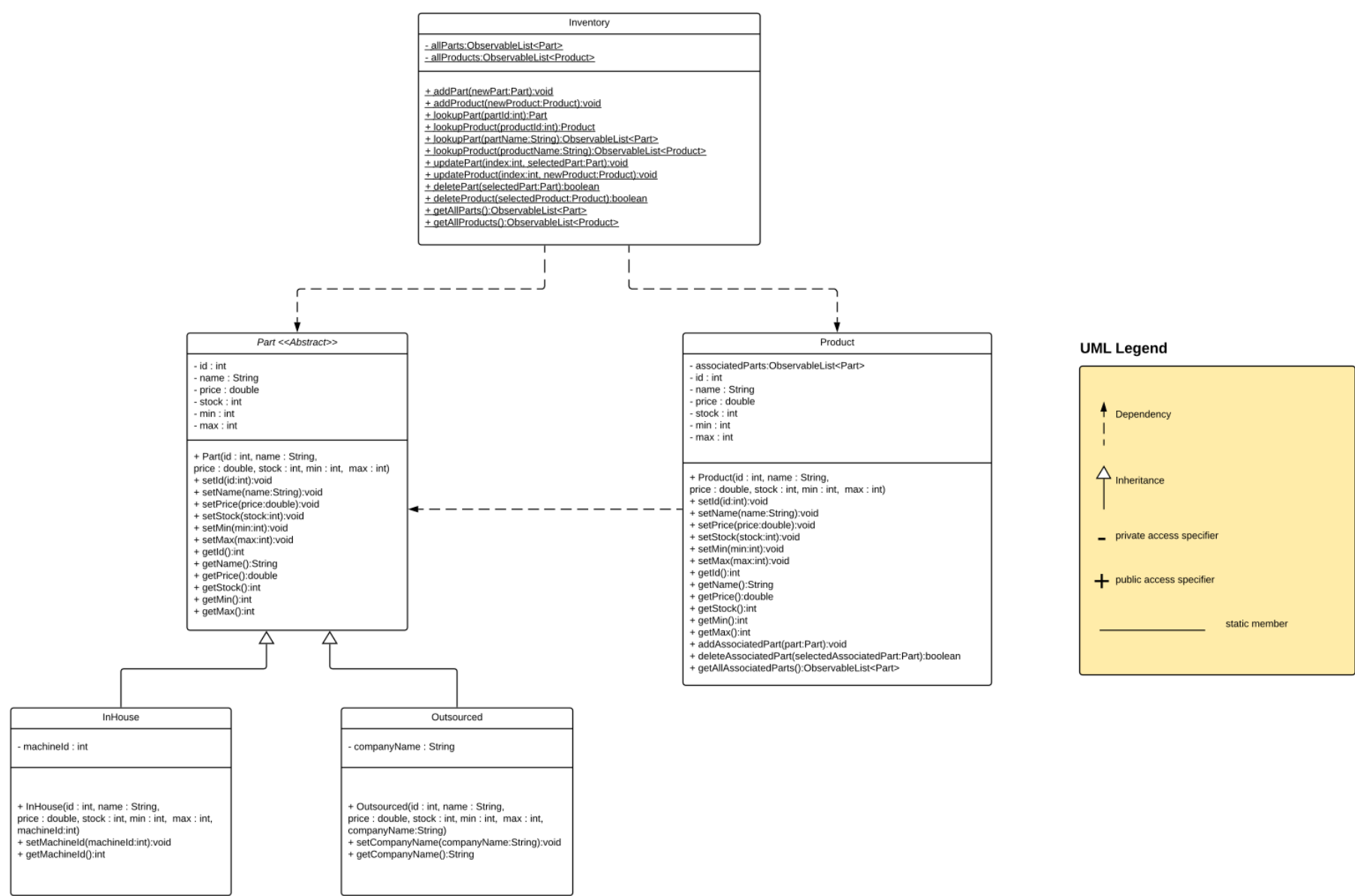


# Inventory Management System

A JavaFX inventory application system for a small manufacturing organization

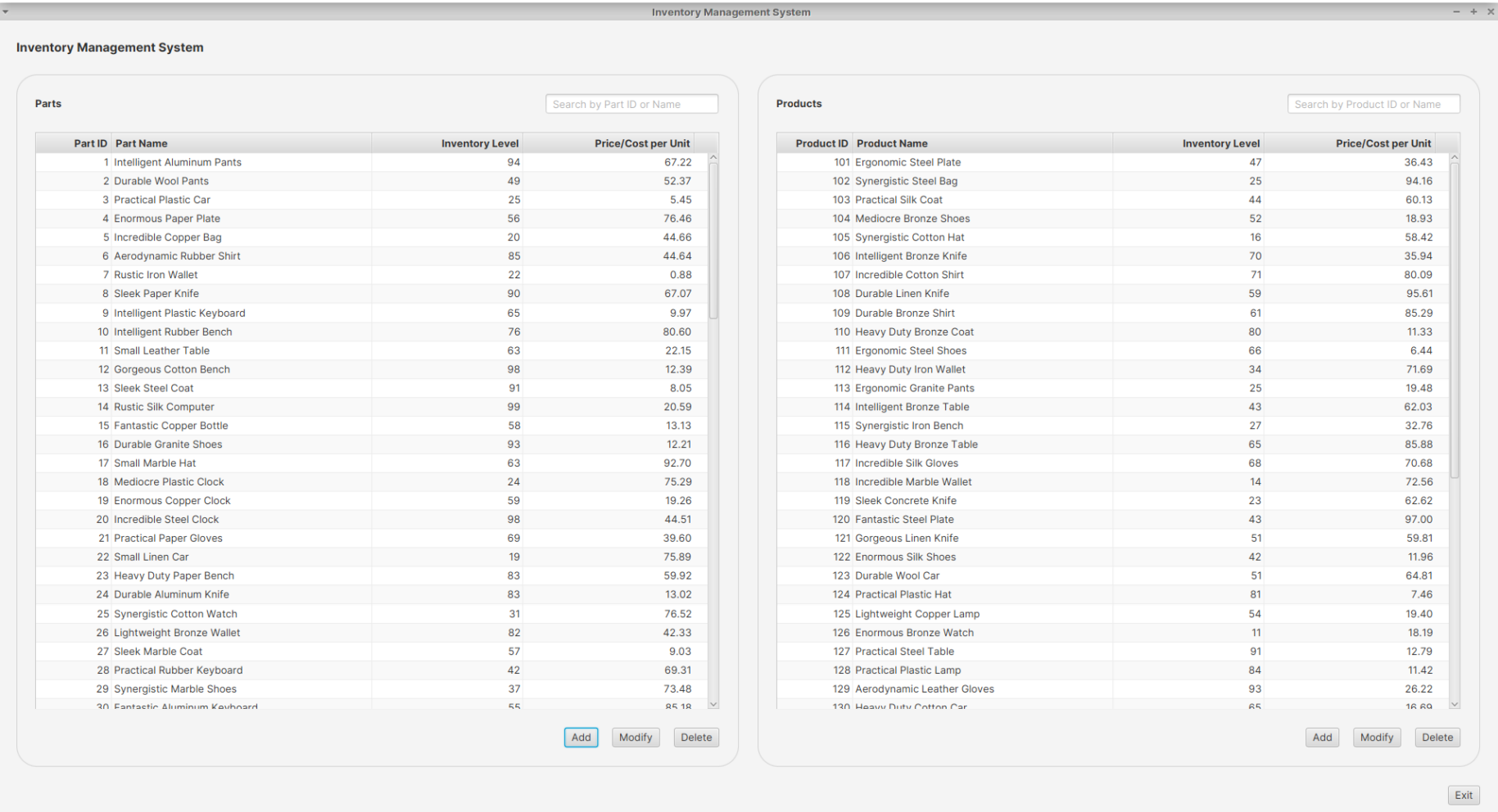
## UML class diagram



## User interface

### Main form

The Main form contains a Parts pane and a Products pane with TableViews of parts and products; a search field; buttons to add, modify, and delete parts and products; and an Exit button.



Add part form

Two views of the same form are shown—one for each of the radio buttons.

The user has the option to select In-House or Outsourced to categorize the part.

If the user selects Outsourced, the Company Name field is available.

If the user selects In-House, the Machine ID field is available.

The Inv field stores the number of units of the product that the company currently have available.

The Min field stores the requirement for the minimum number of product items that must be available by the company at any given time, and the Max field denotes the maximum number of product items that the company can store.

The values of the filed Inv, therefore, must be integers between the values stored in the fields Min and Max.

In-house

Add Part

☒ In-House☐ Outsourced

ID

Auto Gen - Disabled

Name

Inv

Price/Cost

Max

Machine ID

Min

11 Error(s)

Invalid name: should not be blank

Invalid inv: should not be blank

Invalid inv: should be a number

Invalid price: should not be blank

Invalid price: should be a number

Invalid max: should not be blank

Invalid max: should be a number

Invalid min: should not be blank

Invalid min: should be a number

Invalid machine id or company name: should not be blank

Invalid machine id: should be a number

Save

Cancel

Outsourced

Add Part

☐ In-House☒ Outsourced

ID

Auto Gen - Disabled

Name

Inv

Price/Cost

Max

Min

Company Name

Save

Cancel

Modify part form

Two views of the same form are shown—one for each of the radio buttons.

The user has the option to select In-House or Outsourced to categorize the part.

If the user selects Outsourced, the Company Name field is available.

If the user selects In-House, the Machine ID field is available.

The Modify Part form has the same functionality as the Add Part form, but the fields are populated with data that was previously entered and saved.

The ID field is still disabled but now displays the selected part’s ID.

In-house

Modify Part

☒ In-House☐ Outsourced

ID

Name

Inv

Price/Cost

Max

Machine ID

Min

Save

Cancel

Outsourced

Modify Part

☐ In-House☒ Outsourced

ID

Name

Inv

Price/Cost

Max

Company Name

Min

2 Error(s)

Invalid price: should not be blank

Invalid price: should be a number

Save

Cancel

## Add product form

Product form contains product information, a top TableView containing all the part data to choose from, and a bottom TableView with the associated part data.

Add Product

ID

Auto Gen - Disabled

Name

Inv

Price

Max

Min

Search by Part ID or Name

Part ID	Part Name	Inventory Level	Price/Cost per Unit
1	Ergonomic Linen Watch	73	44.27
2	Incredible Silk Bottle	45	17.02
3	Rustic Steel Chair	92	18.35
4	Heavy Duty Iron Lamp	62	43.11
5	Synergistic Steel Table	60	77.30
6	Aerodynamic Cotton Watch	61	59.15
7	Stellar Metal Chair	48	81.88

Add

Part ID	Part Name	Inventory Level	Price/Cost per Unit
<No associated parts available>			

Remove Associated Part

Save

Cancel

## Modify product form

Modify Product form has the same functionality as the Add Product form, but the parts and fields are populated with data that was previously entered and saved.

Modify Product

ID

121

Name

Gorgeous Linen Knife

Inv

51

Price

59.81

Max

100

Min

10

Search by Part ID or Name

Part ID	Part Name	Inventory Level	Price/Cost per Unit
14	Rustic Silk Computer	99	20.59
15	Fantastic Copper Bottle	58	13.13
16	Durable Granite Shoes	93	12.21
17	Small Marble Hat	63	92.70
18	Mediocre Plastic Clock	24	75.29
19	Enormous Copper Clock	59	19.26
20	Incredible Steel Clock	98	44.51

Add

Part ID	Part Name	Inventory Level	Price/Cost per Unit
69	Ergonomic Concrete Bag	60	0.83
43	Lightweight Copper Knife	82	39.89
85	Small Cotton Pants	60	45.36
88	Mediocre Cotton Pants	25	78.14
22	Small Linen Car	19	75.89

Remove Associated Part

Save

Cancel