|  |  |
| --- | --- |
| dressUp | Contains the needed classes to run the dress picker system to get the right clothing for the weather. |
| test | Contains the classes to run the test cases for the dress picker system. |

**Packages:**

**dressUp package:**

**Interface Summary:**

|  |  |
| --- | --- |
| [IDressForWeather](#First_Link) | This interface handles the functions to put on clothes that are needed by all kinds of Weather instances |

**Class Summary:**

|  |  |
| --- | --- |
| [AbstractValidator](#Second_Link) | This class handles the various commands supplied by the user and implements the business rules before executing the commands |
| [ColdWeather](#ColdWeather_Link) | This class handles the clothes needed for cold weather by implementing IDressForWeather |
| [ColdWeatherValidator](#ColdWeatherValid_Link) | This class handles the various cold weather specific commands supplied by the user and implements the business rules before executing the commands |
| [DressingState](#DressState_Link) | This class represents the current set of clothing that are put on and the clothing that are not put on for this input instance. |
| [DressPickerSystem](#DressPicker_Link) | This class picks the correct dress order to be put on for the corresponding type of weather |
| [HotWeather](#HotWeather_Link) | This class handles the clothes needed for hot weather by implementing IDressForWeather |
| [HotWeatherValidator](#HotWeatherValid_Link) | This class handles the various hot weather specific commands supplied by the user and implements the business rules before executing the commands |
| InputHandler | This class contains the main method to launch the application. |

**Test package:**

**Class Summary:**

|  |  |
| --- | --- |
| DressPickerSystemTest | This class runs the test cases for DressPickerSystem that covers all the possible combinations of commands that could be input by the user. |

# IDressForWeather**:**

**Method Summary:**

|  |  |
| --- | --- |
| String | putonFootWear()  returns the footwear to be put on |
| String | putonHeadWear()  returns the headwear to be put on |
| String | putonSocks ()  returns the socks to be put on |
| String | putonShirt()  returns the shirt to be put on |
| String | putonJacket()  returns the jacket to be put on |
| String | putonPants ()  returns the pants to be put on |
| String | leaveHouse()  returns String “leaving house” |
| String | takeOffPajamas()  returns String “Removing Pjs” |

AbstractValidator:

**Method Summary:**

|  |  |
| --- | --- |
| String | handleCommand1()  This returns the corresponding footWear to put on after analyzing the rules to execute Command1 |
| String | handleCommand2()  This returns the corresponding headWear to put on after analyzing the rules to execute Command2 |
| String | handleCommand3()  This returns the corresponding socks to put on after analyzing the rules to execute Command3 |
| String | handleCommand4()  This returns the corresponding shirt to put on after analyzing the rules to execute Command4 |
| String | handleCommand5()  This returns the corresponding jacket to put on after analyzing the rules to execute Command5 |
| String | handleCommand6()  This returns the corresponding pants to put on after analyzing the rules to execute Command6 |
| String | handleCommand7()  This returns “leaving house” if the user shall leave the house after analyzing the rules to execute Command7 |
| String | handleCommand8()  This returns "Removing PJs" after analyzing the rules to execute Command8 |
| Boolean | isThisFirstCommand()  This validates if the first Command that will be issued is to take off pajamas |
| Boolean | isAllClothingOn()  This validates if all the items of clothing are put on |
| String | validateAndGetOrder(List<String> states)  This returns the dressing order to be followed after leaving the house after analyzing the List<String> state inputs given by the user |

# ColdWeather:

Implements IDressForWeather

**Method Summary:**

|  |  |
| --- | --- |
| String | putonFootWear()  returns the footwear to be put on for cold weather |
| String | putonHeadWear()  returns the headwear to be put on for cold weather |
| String | putonSocks ()  returns the socks to be put on for cold weather |
| String | putonShirt()  returns the shirt to be put on for cold weather |
| String | putonJacket()  returns the jacket to be put on for cold weather |
| String | putonPants ()  returns the pants to be put on for cold weather |
| String | leaveHouse()  returns String “leaving house” |
| String | takeOffPajamas()  returns String “Removing Pjs” |

ColdWeatherValidator:

Extends AbstractValidator

**Method Summary:**

|  |  |
| --- | --- |
| String | handleCommand1()  Overrides [AbstractValidator. handleCommand1()](#Command1)  This returns the corresponding footWear to put on for cold weather after analyzing the rules to execute Command1 |
| String | handleCommand2()  Inherits from [AbstractValidator.handleCommand2()](#Command2) |
| String | handleCommand3()  Overrides [AbstractValidator. handleCommand3()](#Command3)  This returns the corresponding socks to put on for cold weather after analyzing the rules to execute Command3 |
| String | handleCommand4()  Inherits from [AbstractValidator.handleCommand4()](#Command4) |
| String | handleCommand5()  Overrides [AbstractValidator. handleCommand5()](#Command5)  This returns the corresponding jacket to put on for cold weather after analyzing the rules to execute Command5 |
| String | handleCommand6()  Inherits from [AbstractValidator.handleCommand6()](#Command6) |
| String | handleCommand7()  Overrides [AbstractValidator. handleCommand7()](#Command7)  This returns “leaving house” if the user shall leave the house in cold weather after analyzing the rules to execute Command7 |
| String | handleCommand8()  Inherits from [AbstractValidator.handleCommand8()](#Command8) |
| Boolean | isThisFirstCommand()  Inherits from [AbstractValidator.isThisFirstCommand()](#Command9) |
| Boolean | isAllClothingOn()  Inherits from [AbstractValidator.isAllClothingOn()](#Command10) |
| String | validateAndGetOrder(List<String> states)  Inherits from [AbstractValidator.validateAndGetOrder(List<String> states)](#Command11) |

# HotWeather:

Implements IDressForWeather

**Method Summary:**

|  |  |
| --- | --- |
| String | putonFootWear()  returns the footwear to be put on for hot weather |
| String | putonHeadWear()  returns the headwear to be put on for hot weather |
| String | putonSocks ()  returns the socks to be put on for hot weather |
| String | putonShirt()  returns the shirt to be put on for hot weather |
| String | putonJacket()  returns the jacket to be put on for hot weather |
| String | putonPants ()  returns the pants to be put on for hot weather |
| String | leaveHouse()  returns String “leaving house” |
| String | takeOffPajamas()  returns String “Removing Pjs” |

# HotWeatherValidator

Extends AbstractValidator

**Method Summary:**

|  |  |
| --- | --- |
| String | handleCommand1()  Overrides [AbstractValidator. handleCommand1()](#Command1)  This returns the corresponding footWear to put on for hot weather after analyzing the rules to execute Command1 |
| String | handleCommand2()  Inherits from [AbstractValidator.handleCommand2()](#Command2) |
| String | handleCommand3()  Overrides [AbstractValidator. handleCommand3()](#Command3)  This returns null as there are no socks needed in hot weather |
| String | handleCommand4()  Inherits from [AbstractValidator.handleCommand4()](#Command4) |
| String | handleCommand5()  Overrides [AbstractValidator. handleCommand5()](#Command5)  This returns null as there are no jackets needed in hot weather |
| String | handleCommand6()  Inherits from [AbstractValidator.handleCommand6()](#Command6) |
| String | handleCommand7()  Overrides AbstractValidator. handleCommand7()  This returns “leaving house” if the user shall leave the house in hot weather after analyzing the rules to execute Command7 |
| String | handleCommand8()  Inherits from [AbstractValidator.handleCommand8()](#Command8) |
| Boolean | isThisFirstCommand()  Inherits from [AbstractValidator.isThisFirstCommand()](#Command9) |
| Boolean | isAllClothingOn()  Inherits from [AbstractValidator.isAllClothingOn()](#Command10) |
| String | validateAndGetOrder(List<String> states)  Inherits from [AbstractValidator.validateAndGetOrder(List<String> states)](#Command11) |

# DressingState:

**Field Summary:**

|  |  |
| --- | --- |
| Boolean | footwear  true if a footwear is put on else false. |
| Boolean | headwear  true if a headwear is put on else false. |
| Boolean | Socks  true if socks is put on else false. |
| Boolean | Shirt  true if a shirt is put on else false. |
| Boolean | Jacket  true if a jacket is put on else false. |
| Boolean | Pants  true if a pant is put on else false. |
| Boolean | leaveHouse  true if the person has left the house else false. |
| Boolean | takeOffPJs  true if the pajamas are taken off else false. |

**Method Summary:**

|  |  |
| --- | --- |
| Boolean | isFootwear()  This returns true if a footwear is put on else false. |
| Boolean | isHeadwear()  This returns true if a headwear is put on else false. |
| Boolean | isSocks()  This returns true if socks is put on else false. |
| Boolean | isShirt()  This returns true if a shirt is put on else false. |
| Boolean | isJacket()  This returns true if a jacket is put on else false. |
| Boolean | isPants()  This returns true if a pant is put on else false. |
| Boolean | leaveHouse()  This returns true if the person has left the house else false. |
| Boolean | takeOffPJs()  This returns true if the pajamas are taken off else false. |
| Void | setFootwear(boolean)  This sets the value of footwear to true if the user has put on it. |
| Void | setHeadWear(boolean)  This sets the value of headwear to true if the user has put on it. |
| Void | setSocks(boolean)  This sets the value of socks to true if the user has put on it. |
| Void | setShirt(boolean)  This sets the value of shirt to true if the user has put on it. |
| Void | setJacket(boolean)  This sets the value of jacket to true if the user has put on it. |
| Void | setPants(boolean)  This sets the value of pants to true if the user has put on it. |
| Void | setLeaveHouse(boolean)  This sets the value of leaveHouse to true if the user has left house |
| Void | setTakeOffPJs(boolean)  This sets the value of takeOffPjs to true if the user has taken off pajamas |

# DressPickerSystem:

**Method Summary:**

|  |  |
| --- | --- |
| String | buildDressOrder(String input)  This returns the correct dress order to wear before leaving the house. |