StockManagement Product Validation - product counter: int productID: int productName: String getProductNum(scanner: Scanner): int productPrice: double intInputValidation (scanner: scanner, first option: int, msg: String): int addProduct(productList: ArrayList<Product>, scanner: Scanner): void productQuantity: int - doubleInputValidation (scanner: scanner, first option: double, msg: String): double productStatus: boolean + viewProduct(productList: ArrayList<Product>, scanner: Scanner): void - InputValidation(scanner: Scanner, first option: int, last option: int, msg: String): int productOperation(productList: ArrayList<Product>, scanner: Scanner): void Product() intInputValidation (scanner: scanner, msg: String): int addStock(productList: ArrayList<Product>, scanner: Scanner): void Product(productID: int, productName: String, productQuantity: int, - productValidation(productList: ArrayList<Product>, scanner: Scanner, msg: String): int - deductStock(productList: ArrayList<Product>, scanner: Scanner): void productPrice: double) intInputValidation(input: String, first: int): ValidationType editProduct(productList: ArrayList<Product>, scanner: Scanner): void getProductName(): String intInputValidation(input: String, first: int, last: int): ValidationType removeProduct(productList: ArrayList<Product>, scanner: Scanner): void getProductPrice(): double doubleInputValidation(input: String, first: double): ValidationType - continueProduct(productList: ArrayList<Product>, scanner: Scanner): void getProductID(): int - discontinueProduct(productList: ArrayList<Product>, scanner: Scanner): void getProductQuantity(): int generateReport(productList: ArrayList<Product>, scanner: Scanner): void getProductStatus(): boolean getInventoryValue(): double getProductDetail(): String setProductName(productName: String): void UserInfo Class setProductPrice(productPrice: double):void setProductID(productID: int): void username: String setProductQuantity(productQuantity: int): void userID: String setProductStatus(productStatus: boolean): void findLastSpaceIndex(username: String): int addStock(addNum: int): void ConsoleUtils Main deductStock(deductNum: int): void getUserName(scanner: Scanner): void generateUserID(): void toString(): String showUserInfo(): void getUserID(): String main(args: String[]): void pauseScreen(scanner: Scanner): void getUsername(): String showDateTime(): void setUserID(userID: String): void setUsername(username: String): void Refrigerator WashingMachine Fan TV doorDesign: String spinSpeed: int speedLevels: int screenType: String loadingType: String fanType: String color: String resolution: String storageCapacity: double noiseLevel: String powerConsumption: int displaySize: String Refrigerator(productID: int, productName: String, productQuantity WashingMachine(productID: int, productName: String, + Fan(produtID:int, name:String, quantity:int, price:double, TV(productID: int, productName: String, productQuantity: int, int, productPrice: double, doorDesign: String, color: String, capacity: productQuantity: int, productPrice: double, spinSpeed: int, speedLevels:int, fanType:String, powerConsumption:int) productPrice: double, screenType: String, resolution: String, double) oadingType String, noiseLevel String) getSpeedLevels(): int displaySize: String) getDoorDesign(): String getSpinSpeed(): int getFanType(): String getScreenType(): String getLoadingType(): String getPowerConsumption(): int getColor(): String getResolution(): String getStorageCapacity(): double getNoiseLevel(): String setSpeedLevels(int): void getDisplaySize(): String getProductDetail(): String setSpinSpeed(spinSpeed: int): void setFanType(String): void getProductDetail(): String setDoorDesign(doorDesign: String): void setLoadingType(loadingType: String): void setPowerConsumption(int): void - setScreenType(screenType: String): void setNoiseLevel(noiseLevel: String): void setColor(color: String): void + toString(): String setResolution(resolution: String): void + getProductDetail(): String setStorageCapacity(storageCapacity: double): void toString(): String setDisplaySize(displaySize: String): void getProductDetail(): String + toString(): String getProductType(): String toString(): String getProductType(): String getProductType(): String getProductType(): String