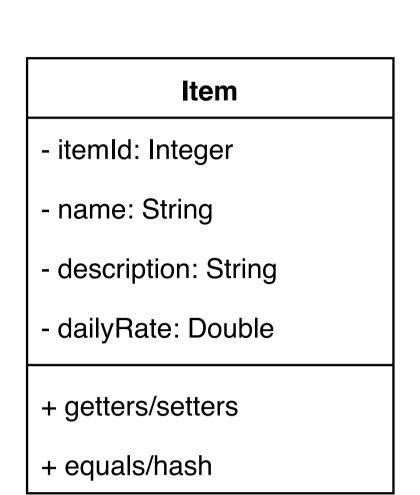


## DTO

Customer
- customerId: Integer
- firstName: String
- lastName: String
- email: String
- company: String
- phone
+ getters/setters
+ equals/hash



Invoice
- invoiceld: Integer
- customerld: Integer
- orderDate: LocalDate
- pickupDate: LocalDate
- returnDate: LocalDate
- lateFee: Double
+ getters/setters
+ equals/hash

InvoiceItem
- invoiceItem: Integer
- invoiceld: Integer
- itemId: Integer
- quantity: Integer
- unitRate: Double
- discount: Double
+ getters/setters
+ equals/hash

## DAO

CustomerJdbcDaolmpl
- jdbcTemplate: JdbcTemplate
- prepared statements: CRUD
+ CustomerJdbcDaoImpl(JdbcTemplate)
+ add(Customer): Customer
+ get(Integer): Customer
+ getAll(): List <customer></customer>
+ update(Customer): void
+ delete(Integer): void
+ mapRowToCustomer(ResultSet, int): Customer

ItemJdbcDaoImpl
- jdbcTemplate: JdbcTemplate
- prepared statements: CRUD
+ ItemJdbcDaoImpl(JdbcTemplate)
+ add(Item): Item
+ get(Integer): Item
+ getAll(): List <item></item>
+ update(Item): void
+ delete(Integer): void
+ mapRowToItem(ResultSet, int): Item

InvoiceJdbcDaoImpl
- jdbcTemplate: JdbcTemplate
- prepared statements: CRUD
+ InvoiceJdbcDaoImpl(JdbcTemplate)
+ add(Invoice): Invoice
+ get(Integer): Invoice
+ getAll(): List <invoice></invoice>
+ update(Invoice): void
+ delete(Invoice): void
+ mapRowToInvoice(ResultSet, int): Invoice

InvoiceItemJdbcDaoImpl
- jdbcTemplate: JdbcTemplate
- prepared statements: CRUD
+ InvoiceItemJdbcDaoImpl(JdbcTemplate)
+ add(InvoiceItem): InvoiceItem
+ get(Integer): InvoiceItem
+ getAll(): List <invoiceitem></invoiceitem>
+ update(InvoiceItem): void
+ delete(InvoiceItem): void
+ mapRowToInvoiceItem(ResultSet, int): InvoiceItem

## ViewModel

CustomerViewModel
- customerId: Integer
- firstName: String
- lastName: String
- email: String
- company: String
- phone: String
- invoices: List <invoice></invoice>
+ getters/setters
+ equals/hash

InvoiceViewModel
- invoiceld: Integer
- customer: Customer
- orderDate: LocalDate
- pickupDate: LocalDate
- returnDate: LocalDate
- lateFee: Double
- invoiceItems: List <invoiceitemviewmodel></invoiceitemviewmodel>
+ getters/setters
+ equals/hash

InvoiceItemViewModel
- invoiceItemId: Integer
- invoiceId: Integer
- item: Item
- quantity: Integer
- unitRate: Double
- discount: Double
+ getters/setters
+ equals/hash

## ServiceLayer

- customerDao: CustomerDao
- itemDao: ItemDao
- invoiceDao: InvoiceDao
- invoiceItemDao: InvoiceItemDao
+ addItem(Item): Item
+ findItem(Integer): Item
+ findAllItems(): List <item></item>
+ updateItem(Item): void
+ deleteItem(Integer): void
+ addInvoiceViewModel(InvoiceViewModel): InvoiceViewModel
+ findInvoiceViewModel(Integer): InvoiceViewModel
+ findAllInvoiceViewModels(): List <invoiceviewmodel></invoiceviewmodel>
+ findInvoiceViewModelByCustomer(Integer): InvoiceViewModel
+ deleteInvoiceViewModel(Integer): void
+ addCustomerViewModel(CustomerViewModel): CustomerViewModel
+ findCustomerViewModel(Integer): CustomerViewModel
+ findAllCustomerViewModel(): List <customerviewmodel></customerviewmodel>
+ updateCustomerViewModel(CustomerViewModel): void

+ deleteCustomerViewModel(Integer): void

ServiceLayer