UML class diagram for book shop with framework relation

Class in red block is the class from ORMLite (framework)

Frame is stand for the package

DatabaseField

DatabaseTable

entity

Book
- id: int
- title: string
- author: string
- genre: string
- subgenre: string
- height: int
- publisher: string
- price: double

+ Book(title : string, author : string, genre : string, subgenre : string, height : int, publisher : string, price : double)
+ Book(ID : int, title : string, author : st genre : string, subgenre : string, height : int, publisher : string, price : double)
+ Book()
+ getId() : int
+ setId(id : int)
+ getTitle() : string
+ setTitle(title : string)
+ getAuthor(): string
+ setAuthor(author : string)
+ getGenre(): string
+ setGenre(genre : string)
+ getSubgenre(): string
+ setSubgenre(subgenre : string)
+ getHeight(): int
+ setHeight(height : int)
+ getPublisher(): string
+ setPublisher(publisher : string)
+ getPrice(): double
+ setPrice(price : double)
+ toString(): string

User
- id: int
- username: string

+ User(username : string)
+ User(ID : int, username : string)
+ User()
+ getId() : int
+ setId(id : int)
+ getUsername() : string
+ setUsername(username : string)
+ toString(): string

History
- id: int
- buyer: User
- book: Book

+ History(buyer : User, book : Book)
+ History(ID : int, buyer : User, book : Book)
+ History()
+ getId() : int
+ setId(id : int)
+ getBuyer() : User
+ setBuyer(buyer : User)
+ getBook() : Book
+ setBook(book : Book)
+ toString(): string

entity.utils

UserUtils
+ readableColumnName : String[]
+ queryColumnName : String[]
+ convertToArray(books : List<User>) : Object[][]

BookUtils
+ readableColumnName : String[]
+ queryColumnName : String[]
+ convertToArray(books : List<Book>) : Object[][]

HistoryUtils
+ readableColumnName : String[]
+ queryColumnName : String[]
+ convertToArray(books : List<History>) : Object[][]

gui

GuiStateUtils
+ getColumnSize(state : GuiState) : int

<<enumeration>> GuiState
BOOKS
USERS
HISTORY

MainGui
+ databaseUrl : string
+ daoFactory : DaoFactory

+ MainGui()
- changeToUserState()
- changeToBookState()
- changeToHistoryState()
- refresh()
- search()
- redrawTable (data : Object[][], columnNames : String[])
- redrawComboBox (items : String[])

gui.popup

UpdateWindow
+ UpdateWindow(mainGui : MainGui)

DeleteWindow
+ DeleteWindow(mainGui : MainGui)

AddWindow
+ AddWindow(mainGui : MainGui)

dao

UserDao
+ UserDao (connectionSource : ConnectionSource)

BookDao
+ BookDao (connectionSource : ConnectionSource)

HistoryDao
+ HistoryDao (connectionSource : ConnectionSource)

DaoFactory
+ connectionSource : JdbcConnectionSource

+ DaoFactory(url : string)
+ getUserDao() : UserDao
+ getBookDao() : BookDao
+ getHistoryDao() : HistoryDao

BaseDaoImpl

Extends
Extends
Extends

JdbcConnectionSource