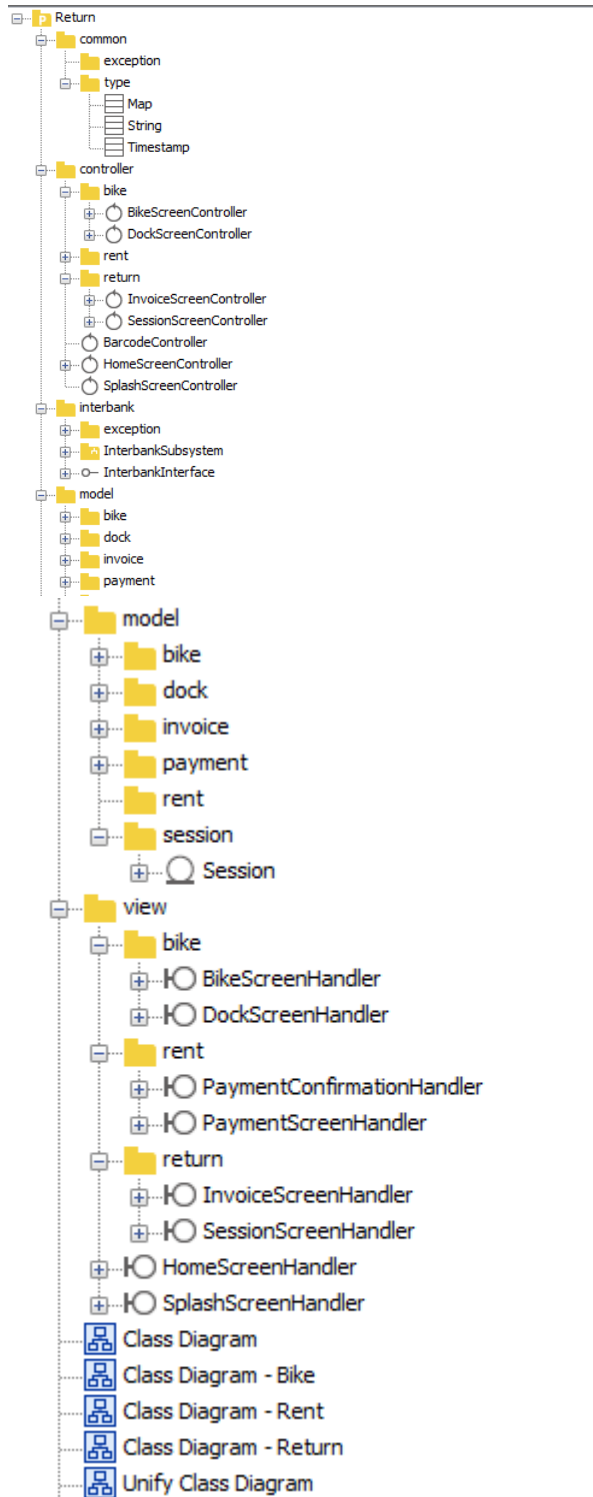
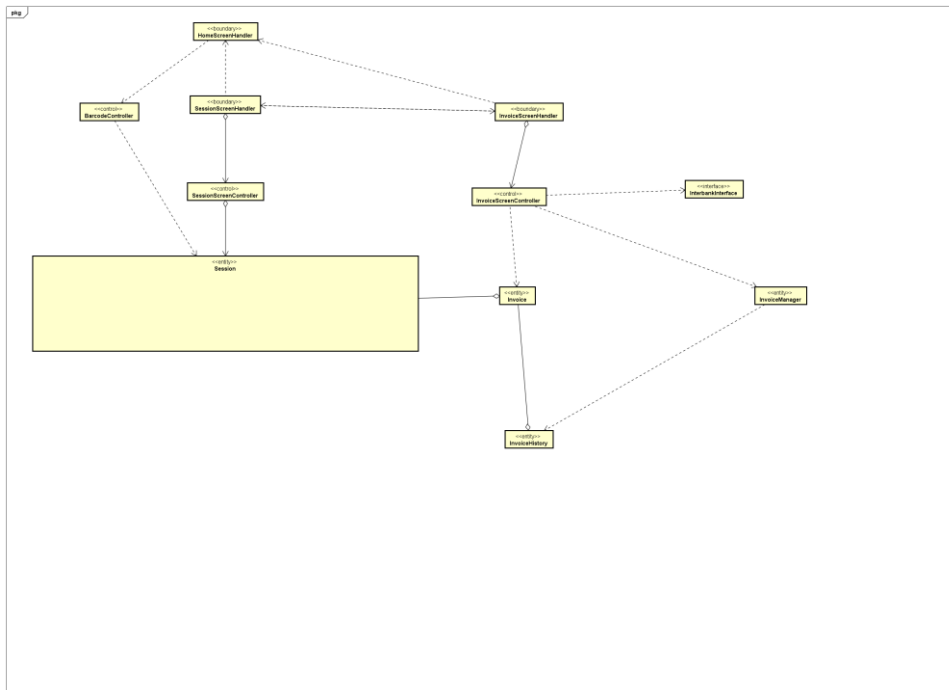


# Class Design

## 1. Create Initial Design Classes

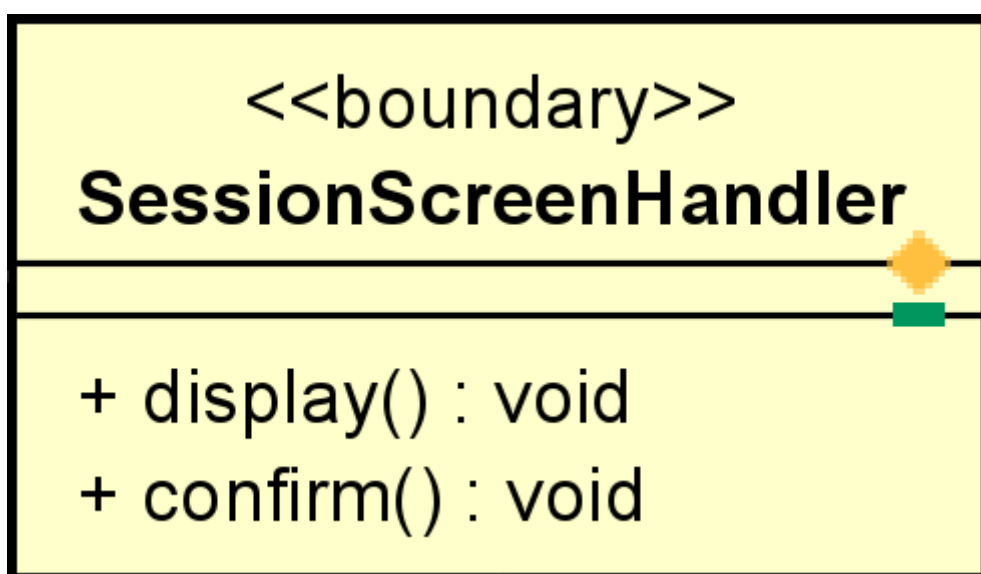


## 2. Define Relationships Between Classes



## 3. Class Design

### 3.1. Class “SessionScreenHandler”



### Attribute

None

### Operation

#	Name	Return type	Description
1	display	void	Display renting session
2	confirm	void	Handler for user to move to invoice screen

Parameter:

None

Exception:

None

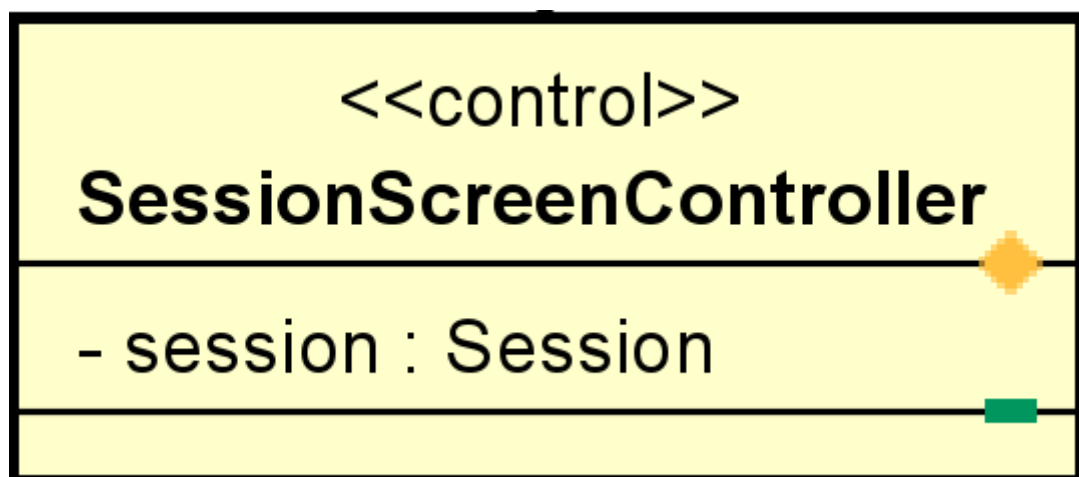
### Method

None

### State

None

## 3.2. Class “SessionScreenController”



### Attribute

#	Name	Data type	Default value	Description
1	session	Session	NULL	Renting Session

## Operation

None

Parameter:

None

Exception:

None

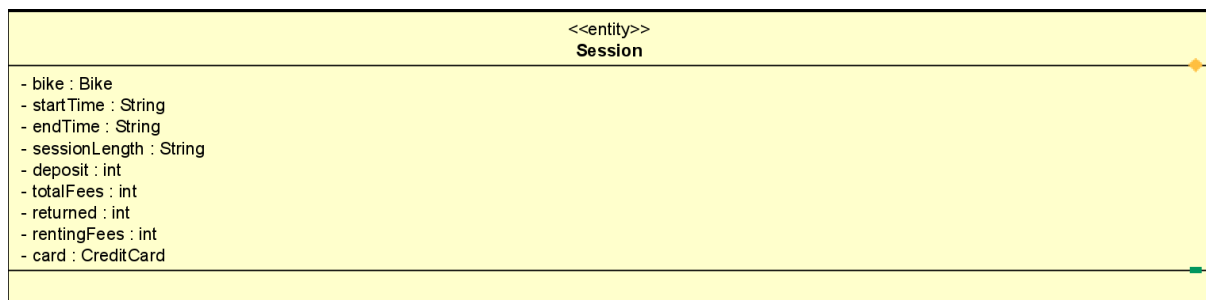
## Method

None

## State

None

### 3.3. Class “Session”



## Attribute

#	Name	Data type	Default value	Description
1	bike	Bike	NULL	Bike info
2	startTime	String	NULL	Renting start time
3	endTime	String	NULL	Renting end time
4	sessionLength	String	NULL	Renting length time
5	totalFees	int	0	total price
6	deposit	int	0	deposit
7	returned	Int	0	Returned money
8	rentingFees	int	0	Renting Fee
9	card	CreditCard	NULL	Credit card info

### Operation

none

Parameter:

none

Exception:

None

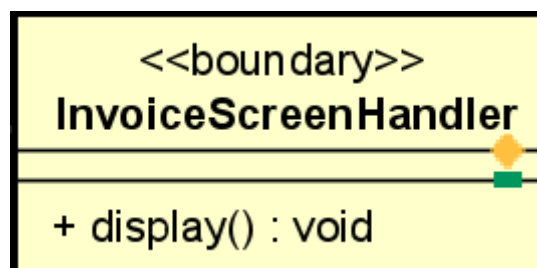
### Method

None

### State

None

## 3.4. Class “InvoiceScreenHandler”



### Attribute

None

### Operation

#	Name	Return type	Description
1	display	void	Display invoice

Parameter:

None

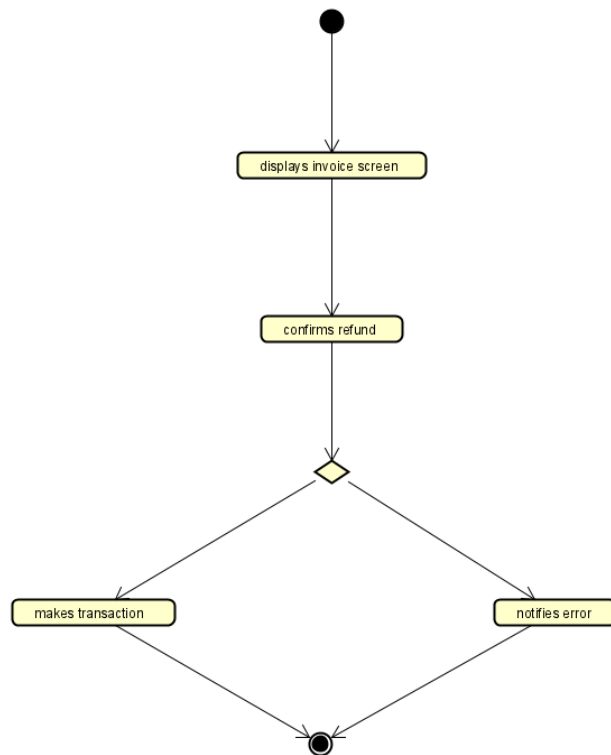
Exception:

InternalServerErrorException

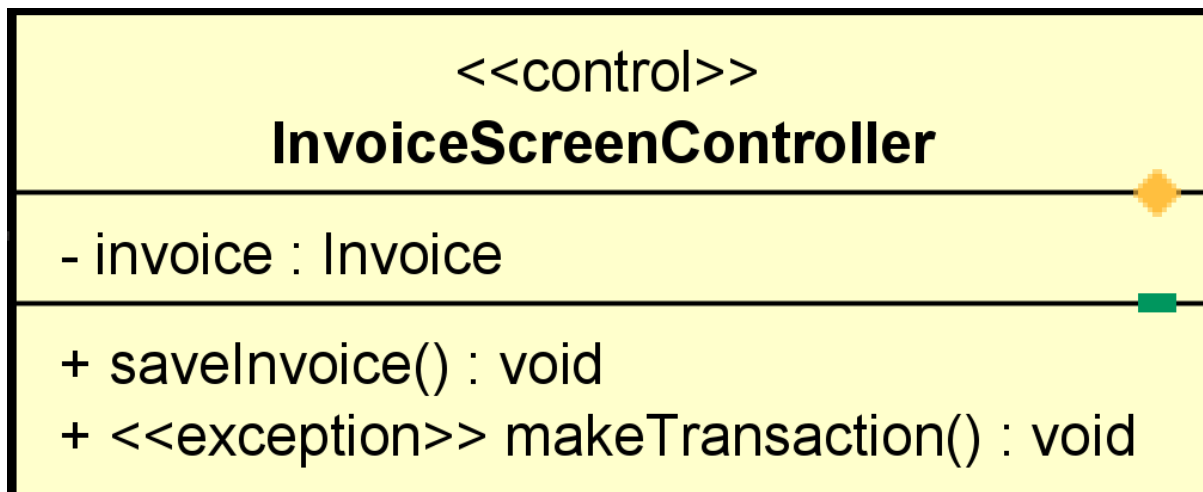
### Method

None

### State



### 3.5. Class “InvoiceScreenController”



#### Attribute

#	Name	Data type	Default value	Description
1	invoice	Invoice	NULL	Invoice info

#### Operation

#	Name	Return type	Description
---	------	-------------	-------------

1	saveInvoice	void	Save invoice history
2	makeTransaction	void	Make transaction

Parameter:

None

Exception:

None

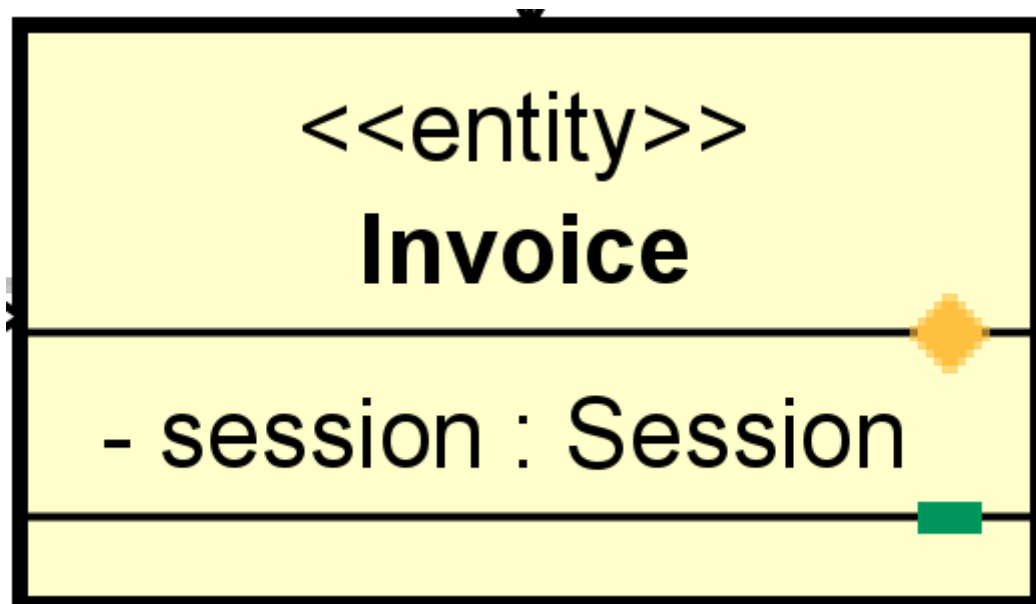
**Method**

None

**State**

None

### 3.6. Class “Invoice”



**Attribute**

#	Name	Data type	Default value	Description
1	session	Session	NULL	Invoice info

**Operation**

None

Parameter:

None

Exception:

None

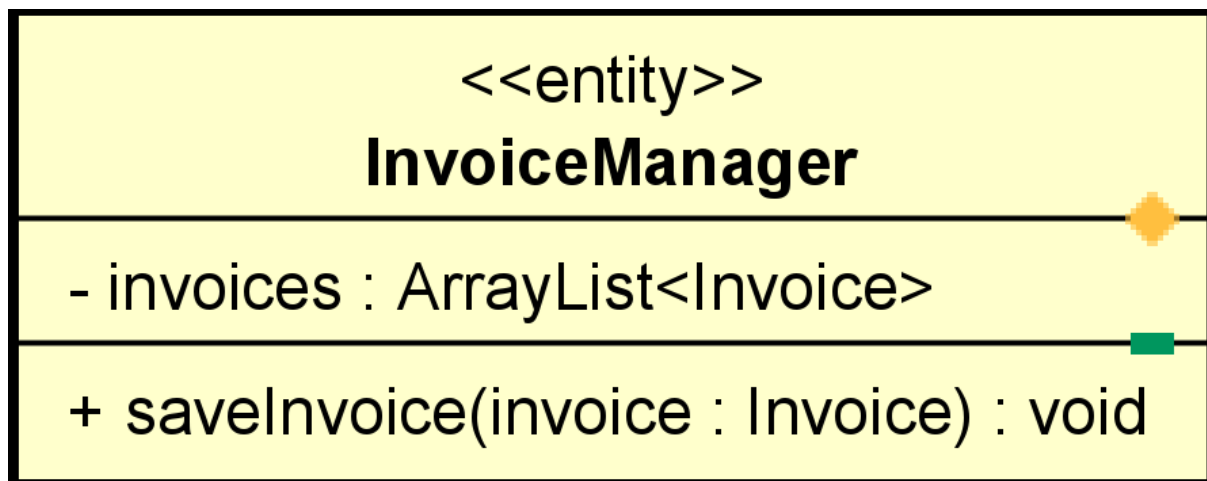
**Method**

None

**State**

None

### 3.7. Class “InvoiceManager”

**Attribute**

#	Name	Data type	Default value	Description
1	invoices	ArrayList	Empty array	List invoices

**Operation**

#	Name	Return type	Description
1	saveInvoice	void	Save invoice history

**Parameter:**

None

**Exception:**

None

**Method**

None

**State**

None



## 4. Class Diagram

