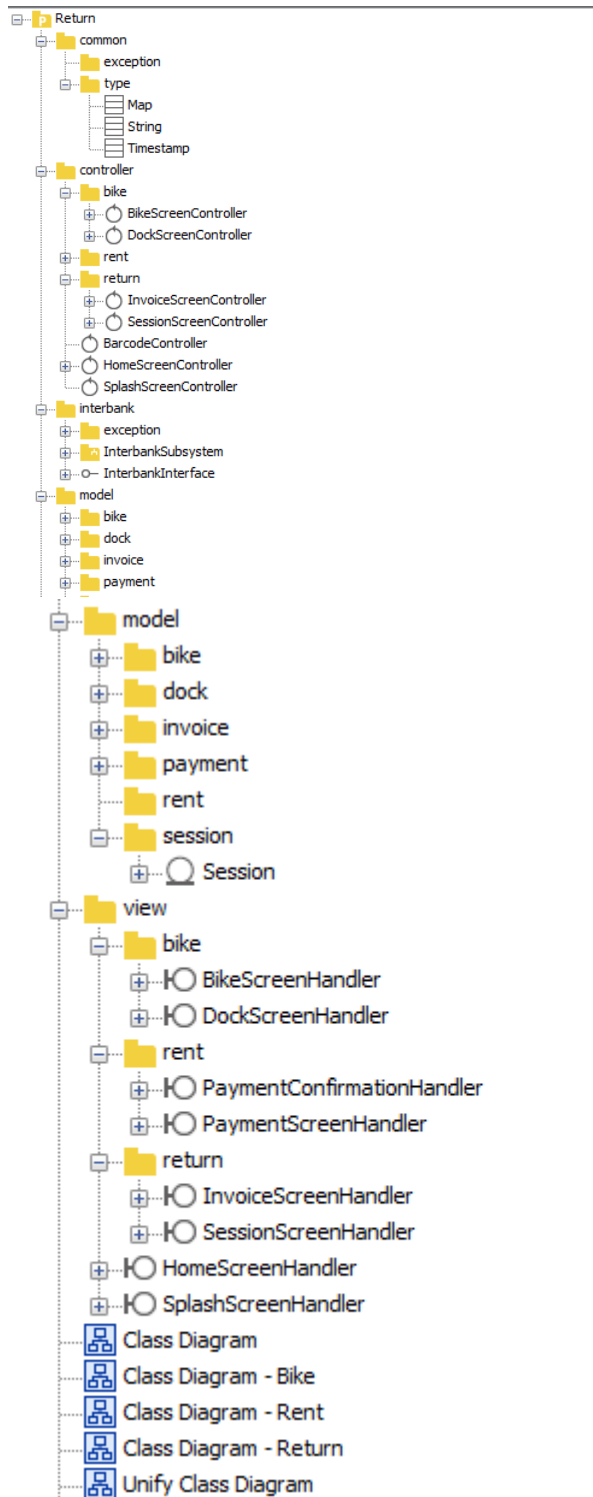
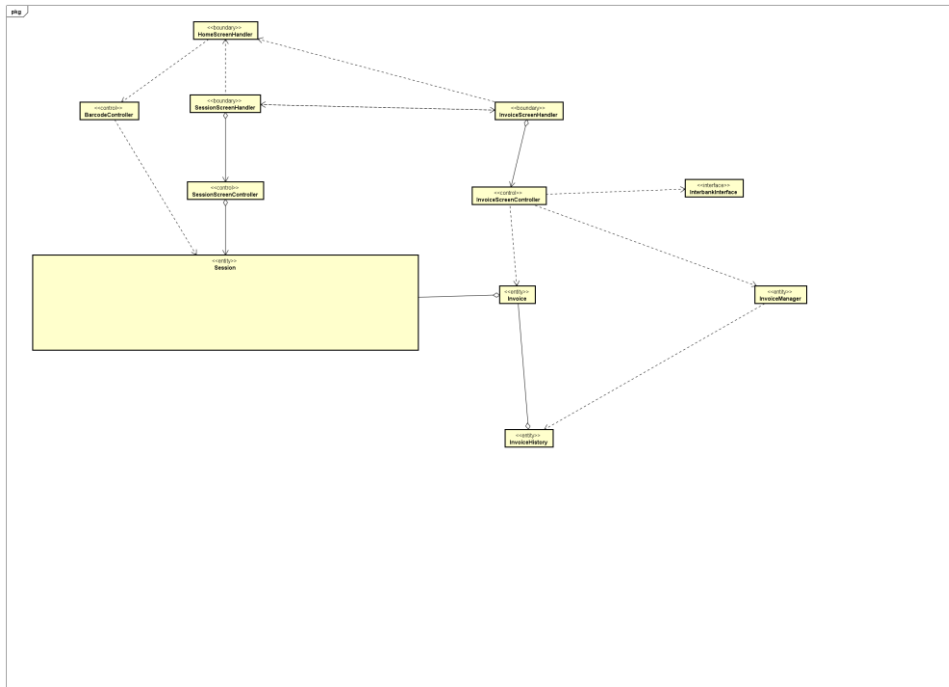


Class Design

1. Create Initial Design Classes

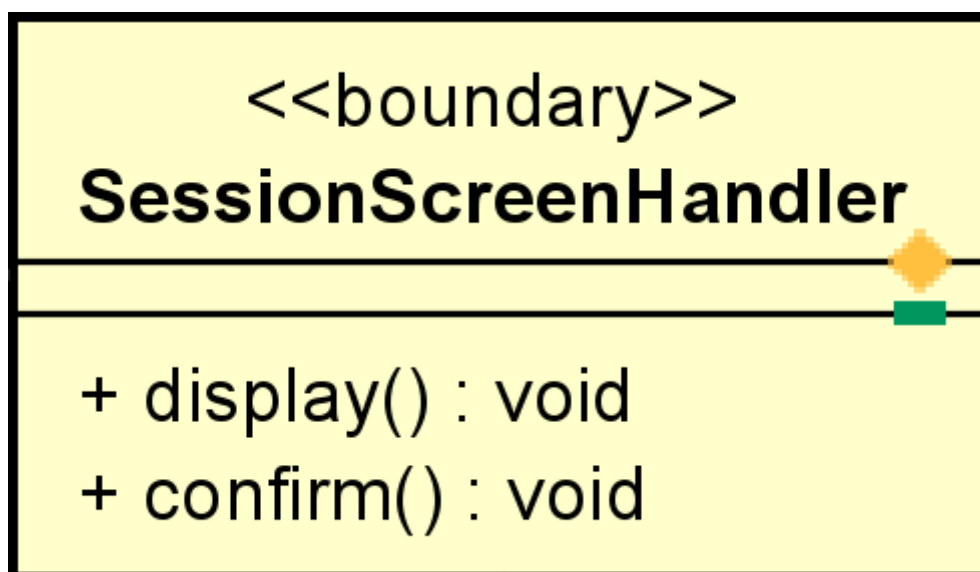


2. Define Relationships Between Classes



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

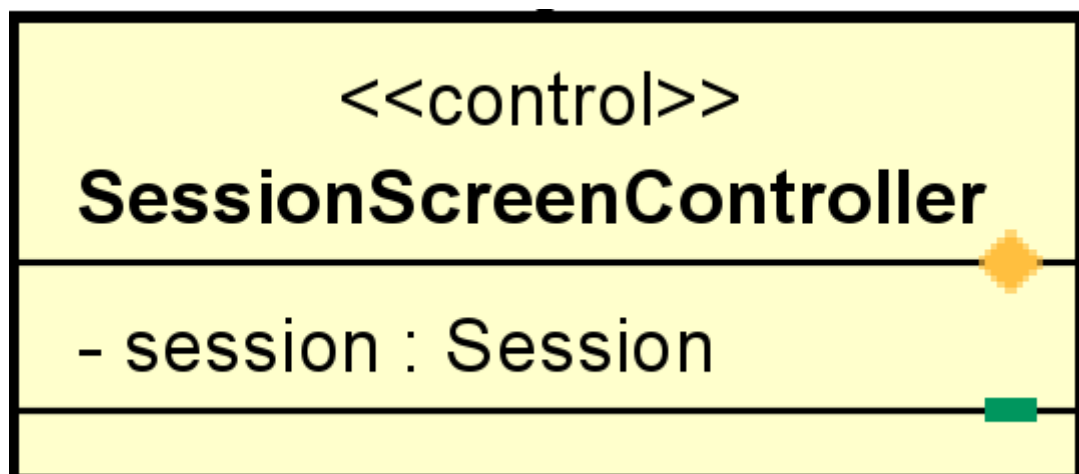
Method

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

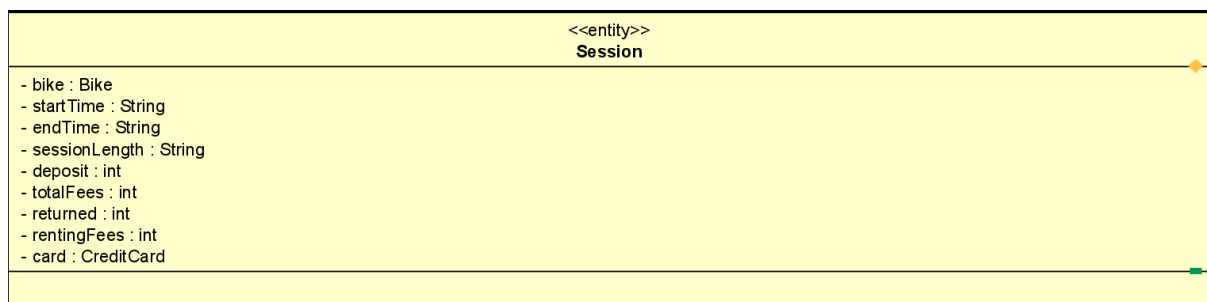
Method

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

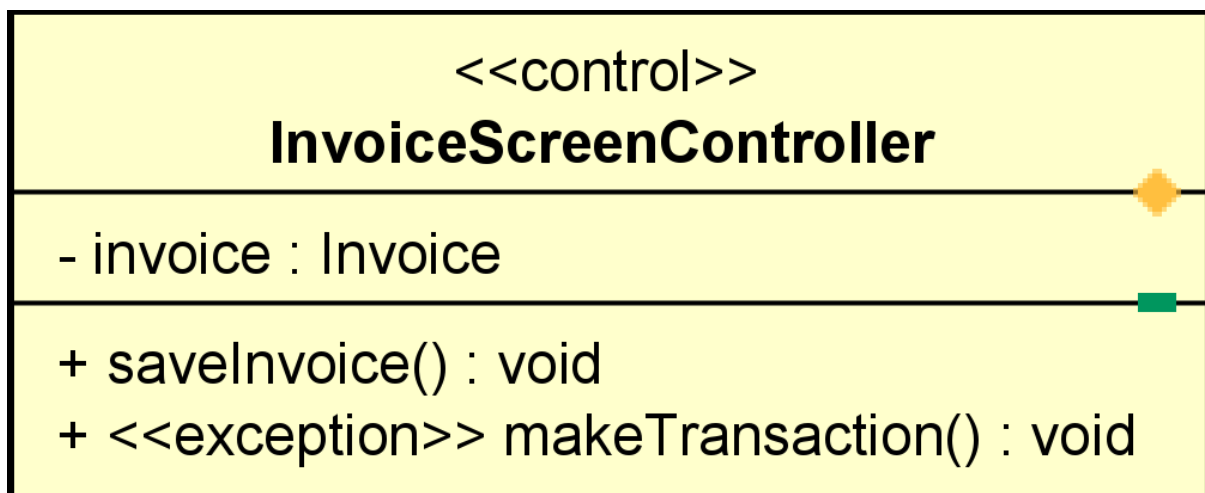
Method

None

State

None

3.4. Class “InvoiceScreenHandler”



Attribute

None

Operation

#	Name	Return type	Description
1	display	void	Display invoice

Parameter:

None

Exception:

None

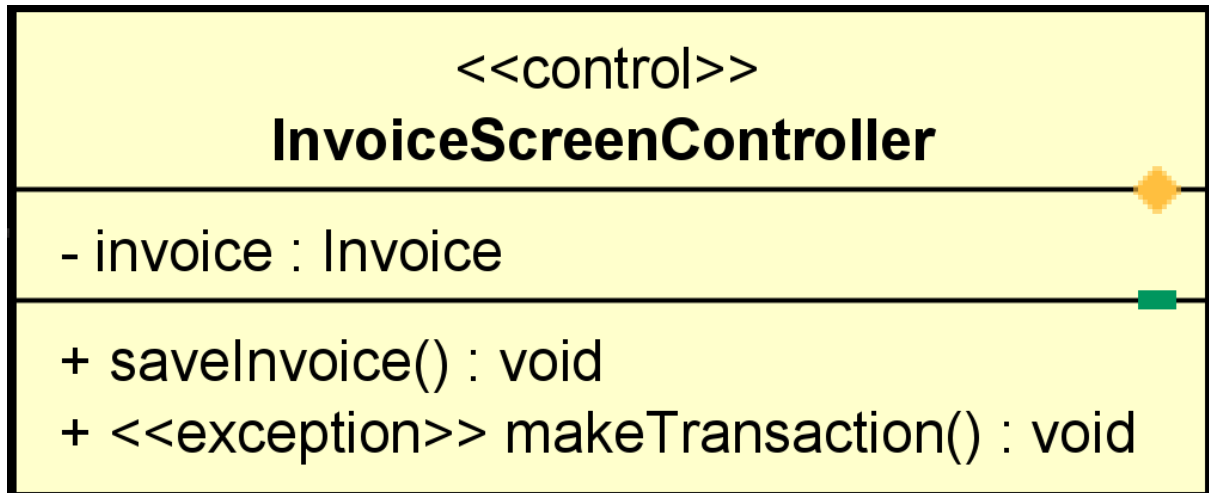
Method

None

State

None

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

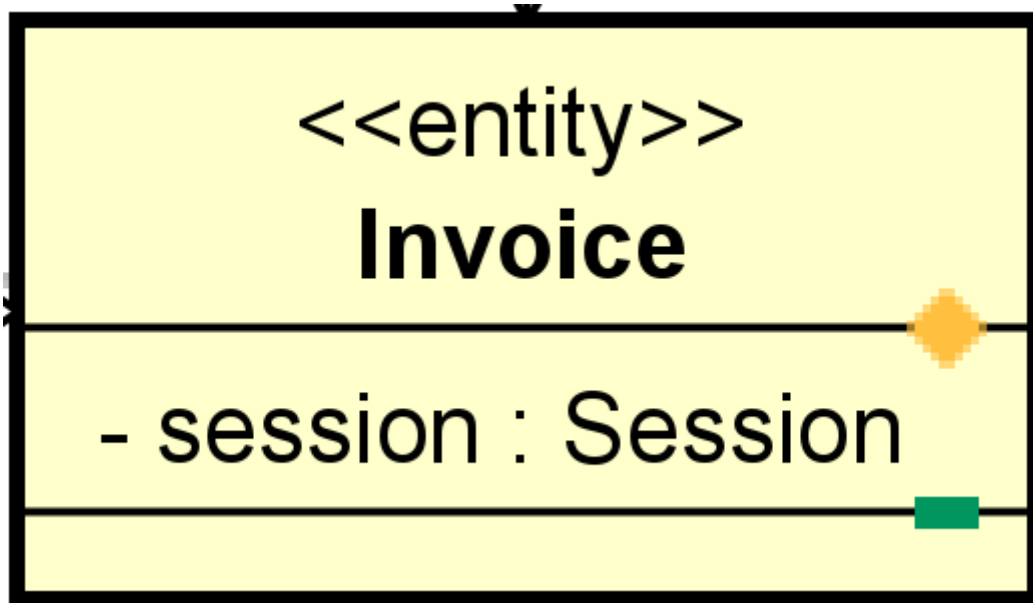
Method

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

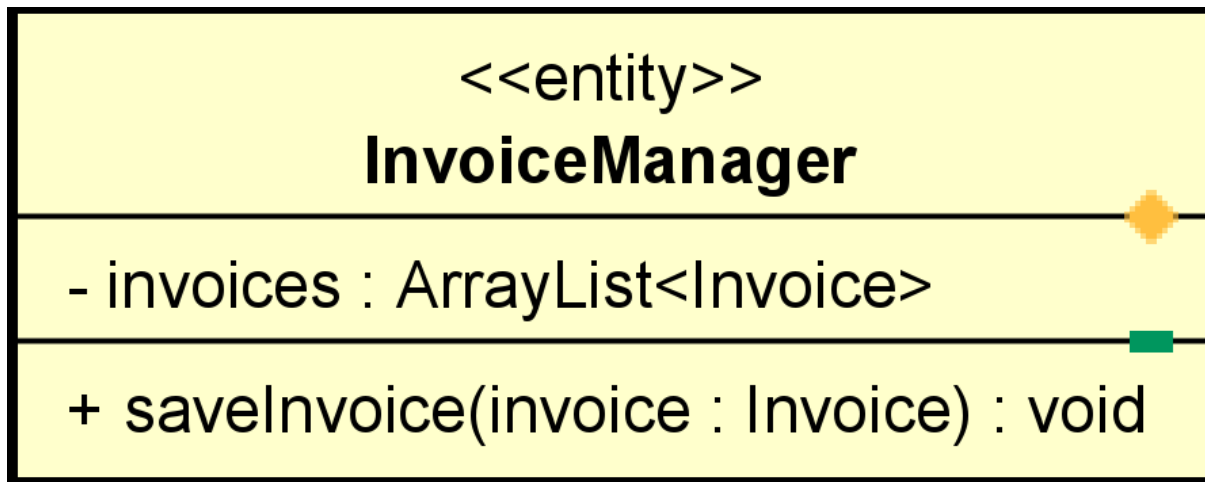
Method

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

