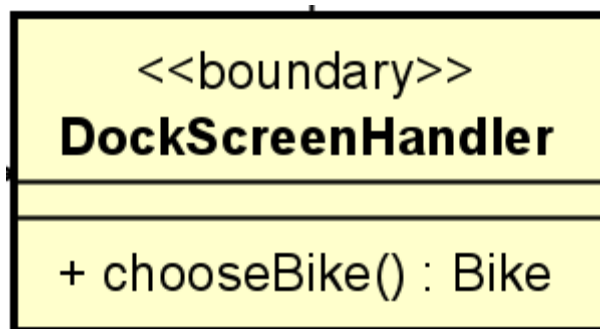


# Class Design - Dock

1. Create Initial Design Classes
2. Define Relationships Between Classes
3. Class Design
  - 3.1. Class “DockScreenHandler”



## Attribute

None

## Operation

#	Name	Return type	Description
1	chooseBike	Bike	forward bike to the BikeScreenHandler

## Parameter:

None

## Exception:

None

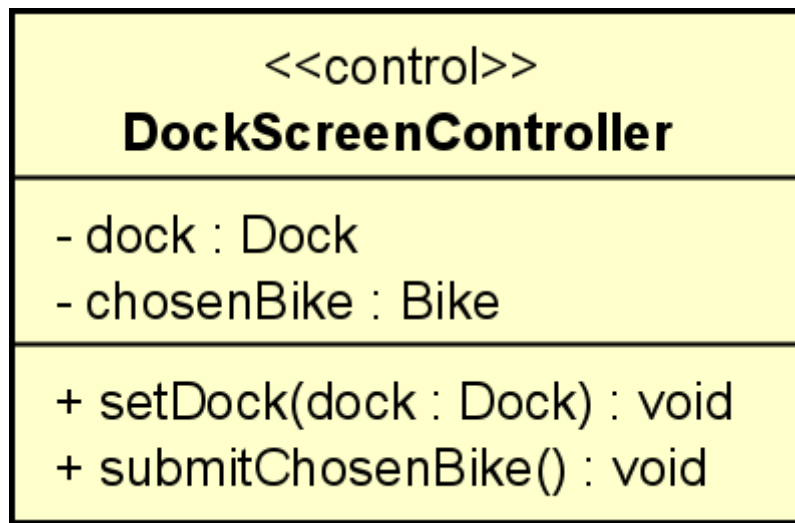
## Method

None

## State

None

### 3.2. Class “DockScreenController”



#### Attribute

#	Name	Data type	Default value	Description
1	dock	Dock	NULL	store the dock it works with
2	chosenBike	Bike	NULL	the bike user chooses from UI

#### Operation

#	Name	Return type	Description
1	setDock	void	set value for dock
2	submitChosenBike	void	send the chosen bike to other object

Parameter:

dock – the dock instance

Exception:

None

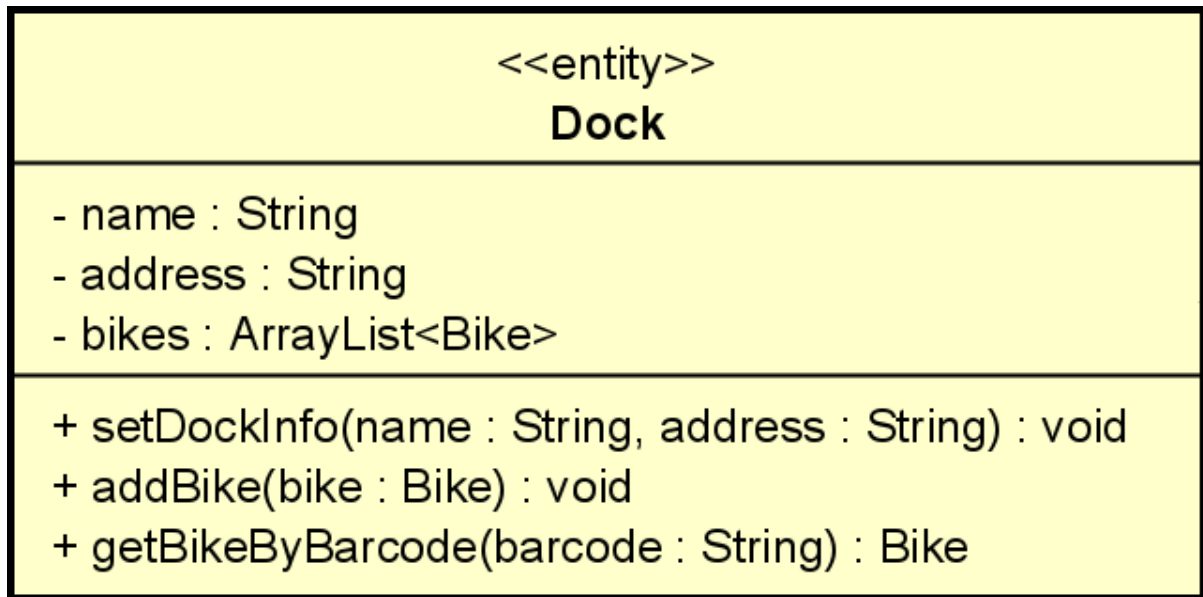
#### Method

None

#### State

None

### 3.3. Class “Dock”



#### Attribute

#	Name	Data type	Default value	Description
1	name	String	NULL	name of the dock
2	address	String	NULL	location of the dock
3	bikes	ArrayList<Bike>	empty ArrayList	all available bikes

#### Operation

#	Name	Return type	Description
1	setDockInfo	void	update dock
2	addBike	void	add new bike to dock
3	getBikeByBarcode	Bike	search bike by barcode

#### Parameter:

name – name of the dock

address – dock’s address

bike – the bike instance

barcode – bike’s barcode

#### Exception:

None

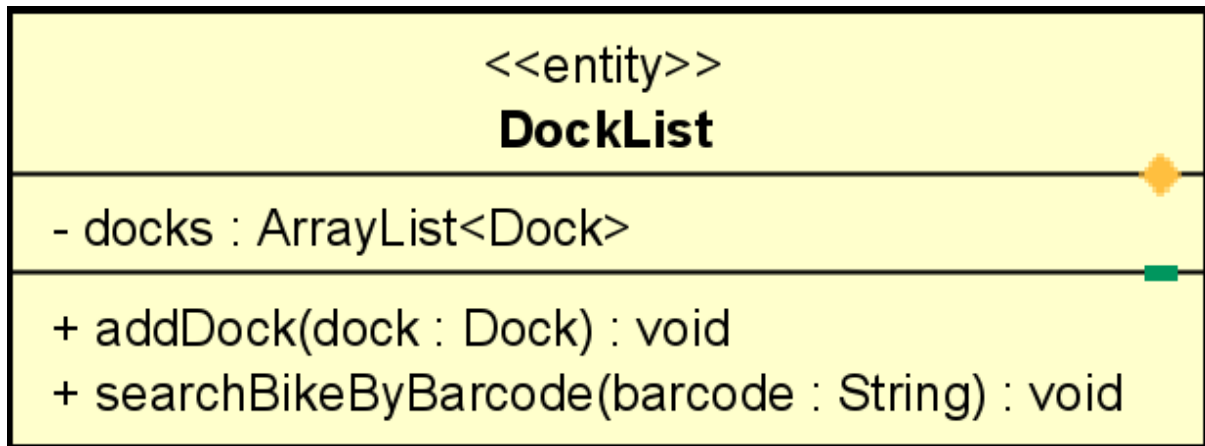
#### Method

None

#### State

None

### 3.4. Class “DockList”



#### Attribute

#	Name	Data type	Default value	Description
1	name	String	NULL	name of the dock

#### Operation

#	Name	Return type	Description
1	addDock	void	add new Dock
2	searchBikeByBarcode	Bike	search and return bike with matching barcode

#### Parameter:

dock – dock’s instance

barcode – the string barcode of a bike

#### Exception:

None

#### Method

None

#### State

None

## 4. Class Diagram