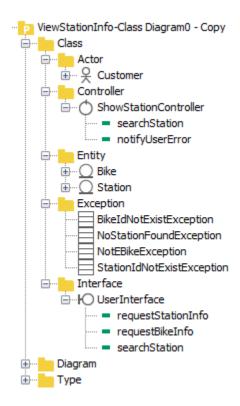
I. Packages



- II. Class diagram
- III. Class specification
- 1. Class Bike



Attributes:

#	Name	Data Type	Default value	Description
1	id	String	Null	//
2	name	String	Null	//
3	type	String	Null	//
4	speed	int	Null	//
5	color	String	null	//

6	weight	int	Null	//
7	battery	String	Null	//
8	description	String	Null	//

Operations:

#	Name	Return Type	Description	Parameter	Exception
1	getBikeInfo	Json	get the bike attributes	null	null
2	getExtraBikeInfo	Json	get Ebike info, only work with Ebike	null	NotEBikeException- If bike is not Ebike

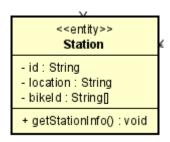
Method:

None

State:

None

2. Class Station



Attributes:

#	Name	Data Type	Default value	Description
1	stationId	String	Null	//
2	loaction	String	Null	//
3	bikeld	String []	Null	List of bikeld in the station

Operations:

#	Name	Return Type	Description	Parameter	Exception
1	getStationInfo	Json	Get Station Info, including	null	null
			station id, location and its		
			bike basic info		

Method:

None

State:

None

3. Class UserInterface

<
boundary>>
UserInterface

- + requestStationInfo(stationId: String): JSON
- + requestBikeInfo(bikeId : String) : JSON
- + searchStation(location: String): JSON

Attributes:

None

Operations:

#	Name	Return	Description	Parameter	Exception
		Type			
1	requestStationInfo	Json	//	stationId	StationIdNotExistException
2	requestBikeInfo	Json	The Bike is determined through station	bikeld	BikeldNotExistException
3	searchStation	Json	Search station through user inputed location	location	NoStationFoundException

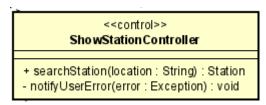
Method:

None

State:

None

4. Class ShowStationController



Attributes:

#	Name	Data Type	Default value	Description
Ope	rations:			

#	Name	Return Type	Description	Parameter	Exception
1	searchStation	Station	Search the station through user input info	location	NoStationFoundException

Method:

#	Name	Return	Description	Parameter	Exception
		Type			
1	notifyUserError	void	Notify the user if there is an error	error	null
			occur		

State:

None