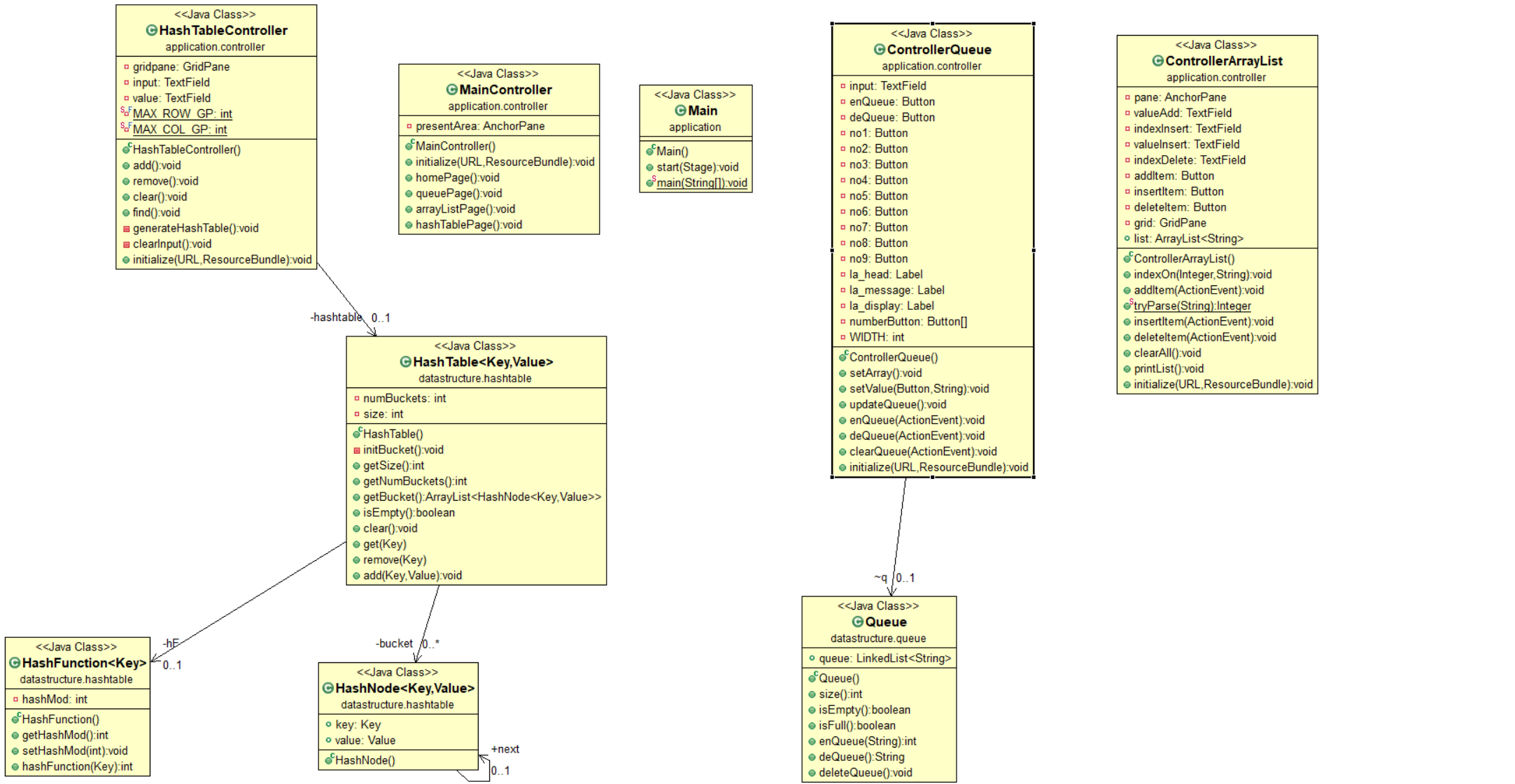
<<Java Class>>
HashTableController
application.controller
gridpane: GridPane
input: TextField
value: TextField
MAX_ROW_GP: int
MAX_COL_GP: int
HashTableController()
add():void
remove():void
clear():void
find():void
generateHashTable():void
clearInput():void
initialize(URL,ResourceBundle):void
-hashtable
0..1
<<Java Class>>
MainController
application.controller
presentArea: AnchorPane
MainController()
initialize(URL,ResourceBundle):void
homePage():void
queuePage():void
arrayListPage():void
hashTablePage():void
<<Java Class>>
Main
application
Main()
start(Stage):void
main(String[]):void
<<Java Class>>
ControllerQueue
application.controller
input: TextField
enQueue: Button
deQueue: Button
no1: Button
no2: Button
no3: Button
no4: Button
no5: Button
no6: Button
no7: Button
no8: Button
no9: Button
la_head: Label
la_message: Label
la_display: Label
numberButton: Button[]
WIDTH: int
ControllerQueue()
setArray():void
setValue(Button,String):void
updateQueue():void
enQueue(ActionEvent):void
deQueue(ActionEvent):void
clearQueue(ActionEvent):void
initialize(URL,ResourceBundle):void
<<Java Class>>
ControllerArrayList
application.controller
pane: AnchorPane
valueAdd: TextField
indexInsert: TextField
valueInsert: TextField
indexDelete: TextField
addItem: Button
insertItem: Button
deleteItem: Button
grid: GridPane
list: ArrayList<String>
ControllerArrayList()
indexOn(Integer,String):void
addItem(ActionEvent):void
tryParse(String):Integer
insertItem(ActionEvent):void
deleteItem(ActionEvent):void
clearAll():void
printList():void
initialize(URL,ResourceBundle):void
<<Java Class>>
HashTable<Key,Value>
datastructure.hashtable
numBuckets: int
size: int
HashTable()
initBucket():void
getSize():int
getNumBuckets():int
getBucket():ArrayList<HashNode<Key,Value>>
isEmpty():boolean
clear():void
get(Key)
remove(Key)
add(Key,Value):void
-hF
0..1
-bucket
0..*
~q
0..1
<<Java Class>>
HashFunction<Key>
datastructure.hashtable
hashMod: int
HashFunction()
getHashMod():int
setHashMod(int):void
hashFunction(Key):int
<<Java Class>>
HashNode<Key,Value>
datastructure.hashtable
key: Key
value: Value
HashNode()
+next
0..1
<<Java Class>>
Queue
datastructure.queue
queue: LinkedList<String>
Queue()
size():int
isEmpty():boolean
isFull():boolean
enQueue(String):int
deQueue():String
deleteQueue():void