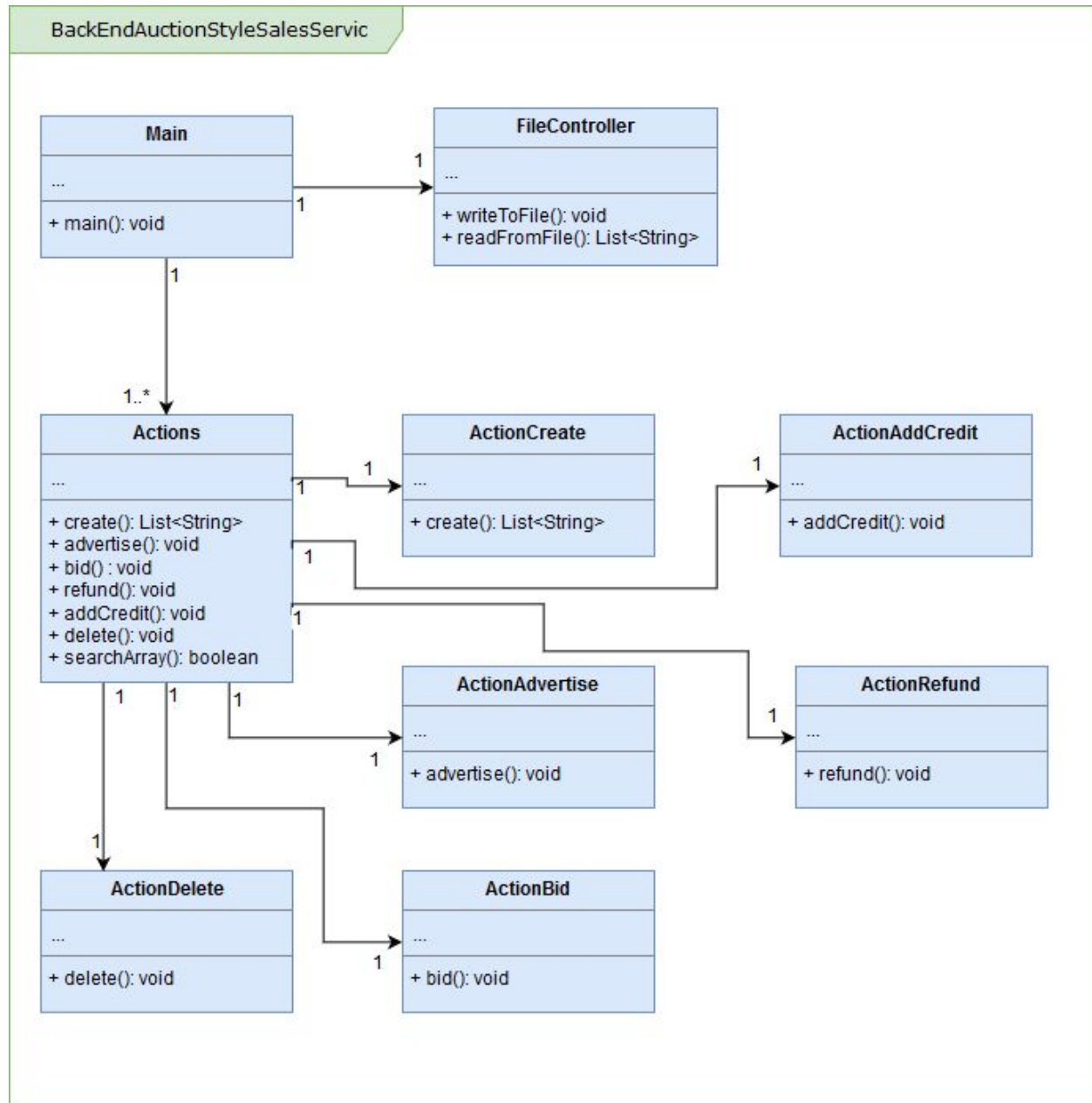# 25QArat - Phase IV

This document is a write up for the Phase 4 of the Course Project. The design document will contain the UML Diagram and Write Up for what each class and each function does.

UML

Methods In Class

MainProgram.java

MainProgram	
main (args : list[string])	The main entry point of the application. This method reads in files then processes the data according to how it should to the outline.

FileController.java

FileController	
writeToFile(filename : string) : void	Takes a string that is used for the file name then writes to that file accordingly.
readFromFile(filename e : string) : List[string]	Takes a string that is used for the file name then reads all the inputs in the file to store in a string list.

Actions.java

Actions	
Create (users : List[string], args : string) : List[String]	This method calls the create a user given a list of current users and the new user. It will call the class that will add the user into it.
Advertise (items : List[string], args: string) : void	This method will create an advertisement based on the item inputs and other arguments that are needed.
Bid (items : List[string], args : string) : void	This method will bid the items that are inputted. Using args as what to do exactly.
Refund (users : List[string], arg : string) : void	This method will refund an amount to a user based on the args passed in.

addCredit (users : List[string], args : string) : void	This method will add credits to a user based on the args passed in.
Delete (users : List[string], args : string) : void	This method will delete a specific user based on the args passed in.
searchArray (array : List[string], searchTerm : string) : boolean	This will take an array to input, with a search term then will check if the search term is in an array. It will return a true or false based on its findings.

ActionRefund.java

ActionRefund	
refund(users : List[string], args : string) : void	This method will refund an amount to a user based on the args passed in.

ActionDelete.java

ActionDelete	
Delete (users : List[string], args : string) : void	This method will delete a specific user based on the args passed in.

ActionCreate.java

ActionCreate	
Create (users : List[string], args : string) : List[String]	This method calls the create a user given a list of current users and the new user. It will call the class that will add the user into it.

ActionBid.java

ActionBid	
Bid (items : List[string], args : string) : void	This method will bid the items that are inputted. Using args as what to do exactly.

ActionAdvertise.java

ActionAdvertise	
Advertise (items : List[string], args: string) : void	This method will create an advertisement based on the item inputs and other arguments that are needed.

ActionAddCredit.java

ActionAddCredit	
addCredit (users : List[string], args : string) : void	This method will add credits to a user based on the args passed in.