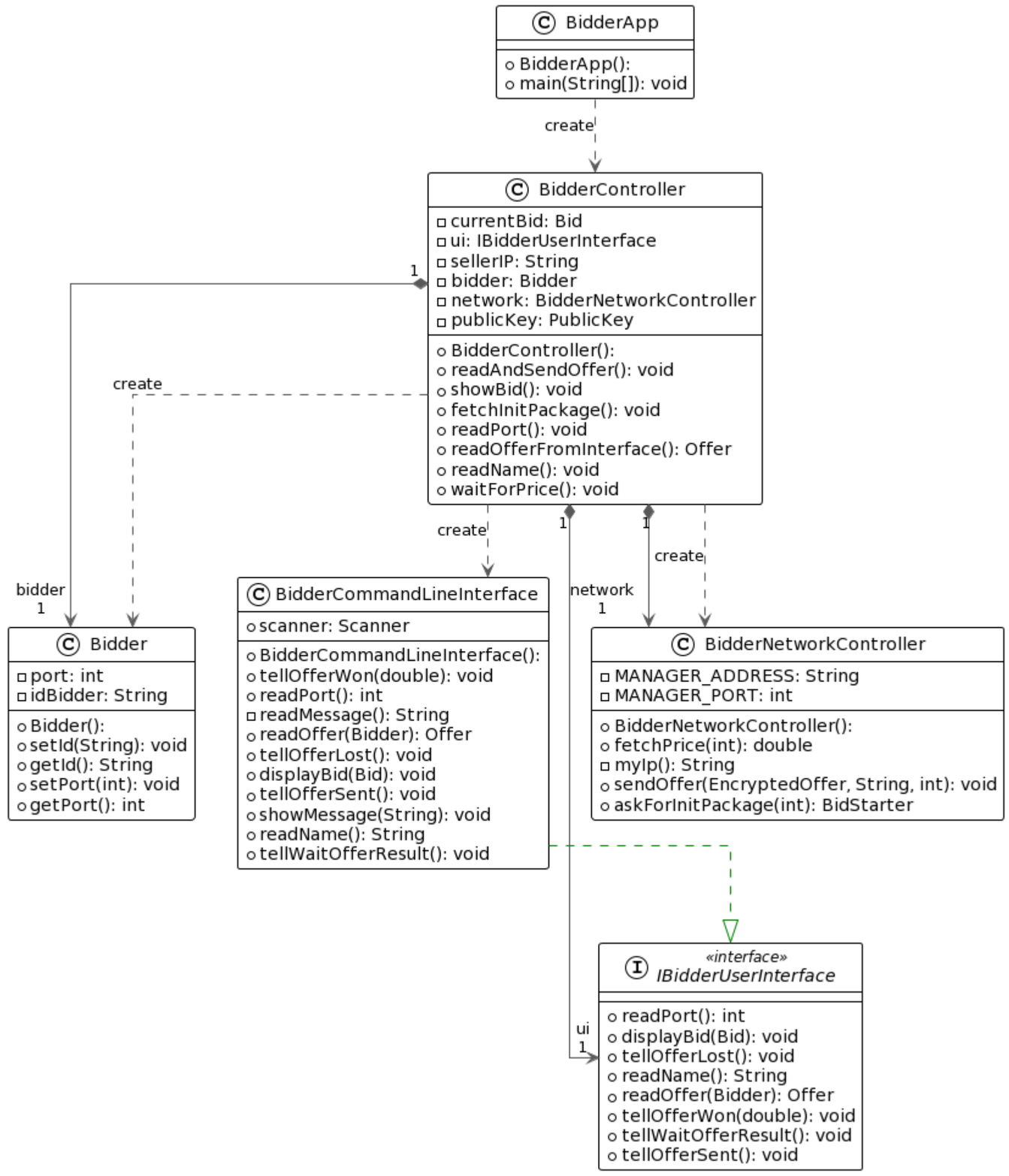
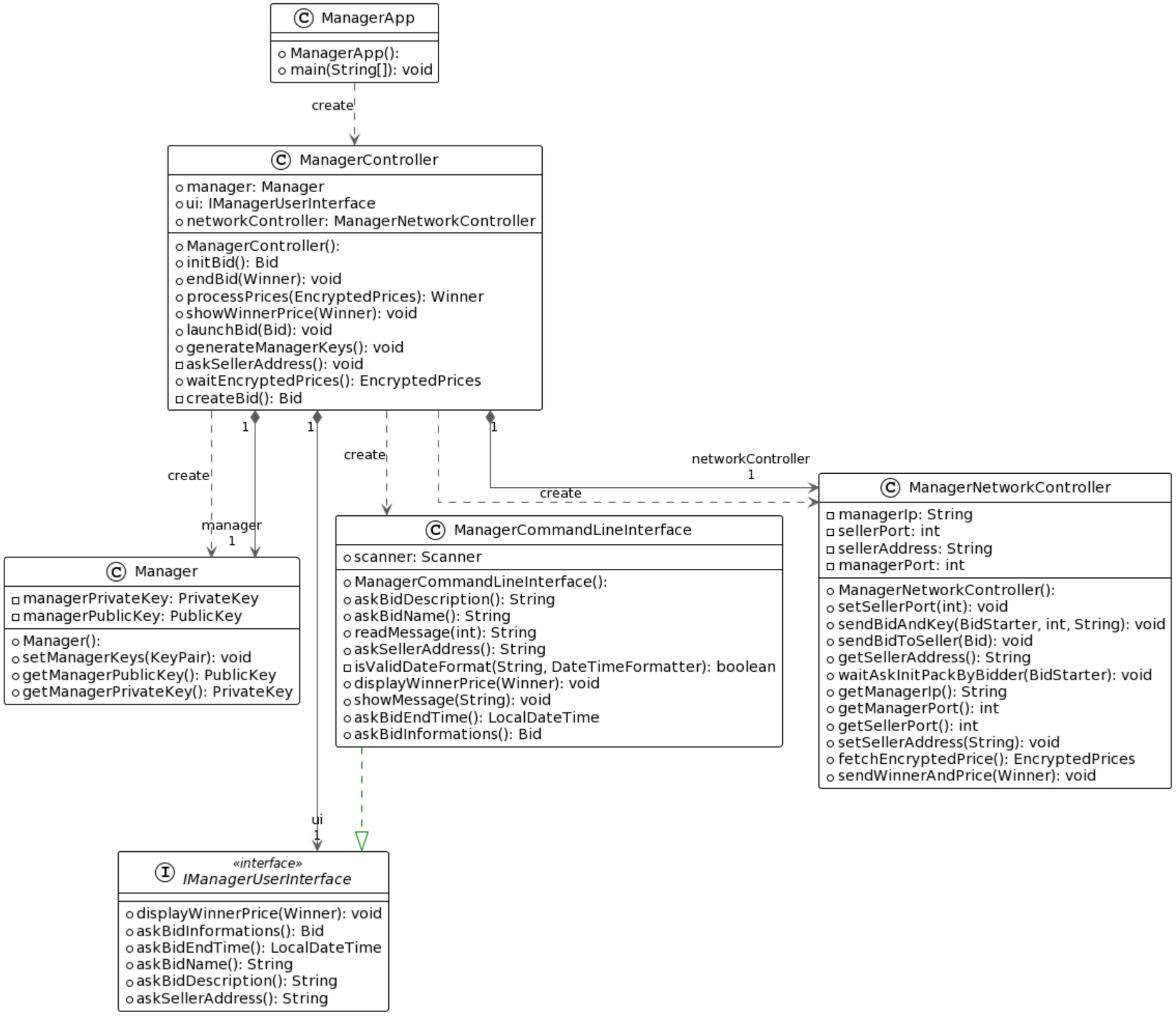
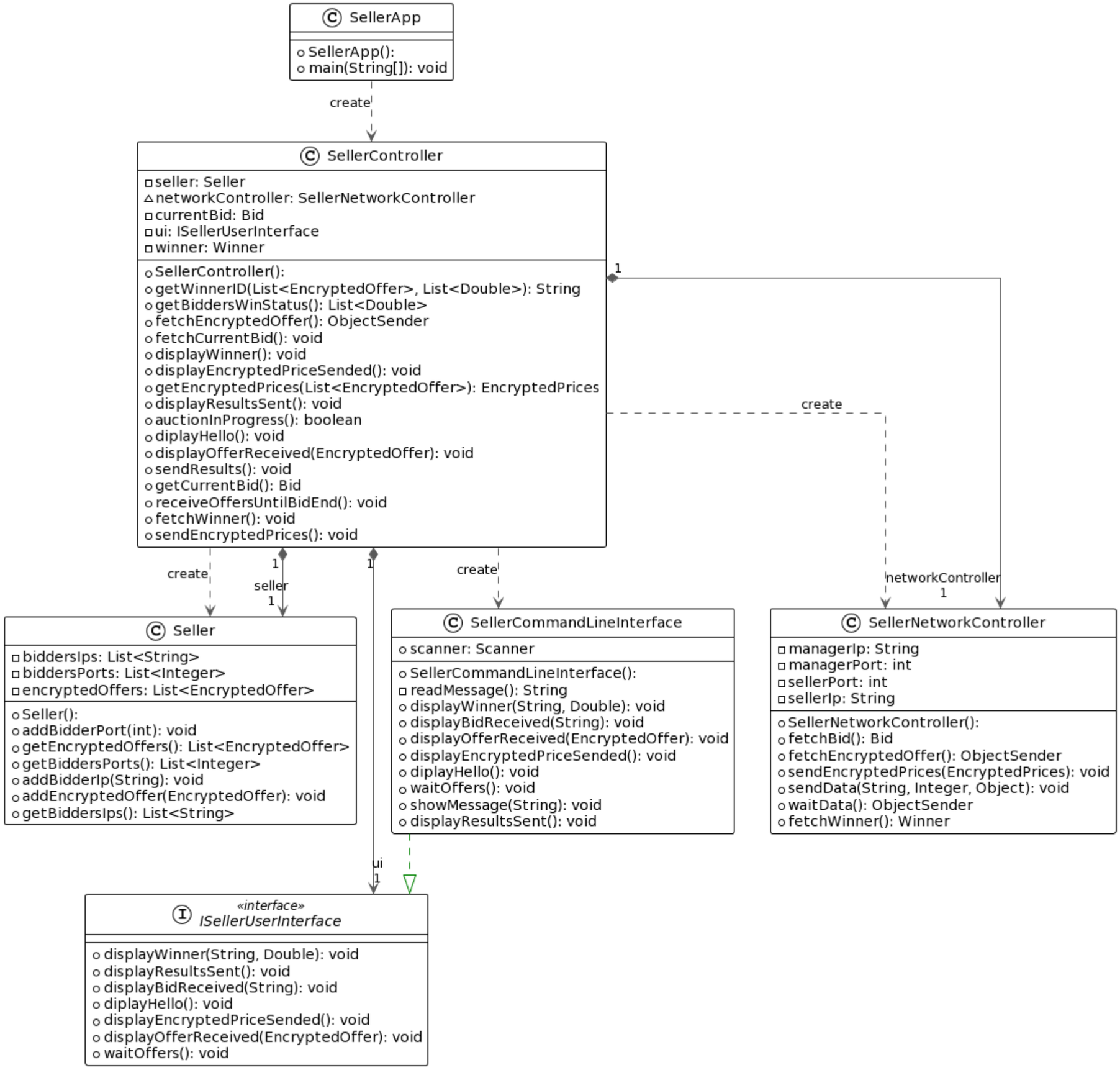

BidderApp
BidderApp():
main(String[]): void
create
BidderController
currentBid: Bid
ui: IBidderUserInterface
sellerIP: String
bidder: Bidder
network: BidderNetworkController
publicKey: PublicKey
BidderController():
readAndSendOffer(): void
showBid(): void
fetchInitPackage(): void
readPort(): void
readOfferFromInterface(): Offer
readName(): void
waitForPrice(): void
1
create
bidder
1
Bidder
port: int
idBidder: String
Bidder():
setId(String): void
getId(): String
setPort(int): void
getPort(): int
create
BidderCommandLineInterface
scanner: Scanner
BidderCommandLineInterface():
tellOfferWon(double): void
readPort(): int
readMessage(): String
readOffer(Bidder): Offer
tellOfferLost(): void
displayBid(Bid): void
tellOfferSent(): void
showMessage(String): void
readName(): String
tellWaitOfferResult(): void
1
1
create
network
1
BidderNetworkController
MANAGER_ADDRESS: String
MANAGER_PORT: int
BidderNetworkController():
fetchPrice(int): double
myIp(): String
sendOffer(EncryptedOffer, String, int): void
askForInitPackage(int): BidStarter
«interface»
IBidderUserInterface
readPort(): int
displayBid(Bid): void
tellOfferLost(): void
readName(): String
readOffer(Bidder): Offer
tellOfferWon(double): void
tellWaitOfferResult(): void
tellOfferSent(): void
ui
1


ManagerApp
ManagerApp():
main(String[]): void
create
ManagerController
manager: Manager
ui: IManagerUserInterface
networkController: ManagerNetworkController
ManagerController():
initBid(): Bid
endBid(Winner): void
processPrices(EncryptedPrices): Winner
showWinnerPrice(Winner): void
launchBid(Bid): void
generateManagerKeys(): void
askSellerAddress(): void
waitEncryptedPrices(): EncryptedPrices
createBid(): Bid
1
1
1
create
create
create
networkController
1
manager
1
Manager
managerPrivateKey: PrivateKey
managerPublicKey: PublicKey
Manager():
setManagerKeys(KeyPair): void
getManagerPublicKey(): PublicKey
getManagerPrivateKey(): PrivateKey
ManagerCommandLineInterface
scanner: Scanner
ManagerCommandLineInterface():
askBidDescription(): String
askBidName(): String
readMessage(int): String
askSellerAddress(): String
isValidDateFormat(String, DateTimeFormatter): boolean
displayWinnerPrice(Winner): void
showMessage(String): void
askBidEndTime(): LocalDateTime
askBidInformations(): Bid
ManagerNetworkController
managerIp: String
sellerPort: int
sellerAddress: String
managerPort: int
ManagerNetworkController():
setSellerPort(int): void
sendBidAndKey(BidStarter, int, String): void
sendBidToSeller(Bid): void
getSellerAddress(): String
waitAskInitPackByBidder(BidStarter): void
getManagerIp(): String
getManagerPort(): int
getSellerPort(): int
setSellerAddress(String): void
fetchEncryptedPrice(): EncryptedPrices
sendWinnerAndPrice(Winner): void
ui
1
«interface»
IManagerUserInterface
displayWinnerPrice(Winner): void
askBidInformations(): Bid
askBidEndTime(): LocalDateTime
askBidName(): String
askBidDescription(): String
askSellerAddress(): String


SellerApp
SellerApp():
main(String[]): void
create
SellerController
seller: Seller
networkController: SellerNetworkController
currentBid: Bid
ui: ISellerUserInterface
winner: Winner
SellerController():
getWinnerID(List<EncryptedOffer>, List<Double>): String
getBiddersWinStatus(): List<Double>
fetchEncryptedOffer(): ObjectSender
fetchCurrentBid(): void
displayWinner(): void
displayEncryptedPriceSended(): void
getEncryptedPrices(List<EncryptedOffer>): EncryptedPrices
displayResultsSent(): void
auctionInProgress(): boolean
diplayHello(): void
displayOfferReceived(EncryptedOffer): void
sendResults(): void
getCurrentBid(): Bid
receiveOffersUntilBidEnd(): void
fetchWinner(): void
sendEncryptedPrices(): void
1
create
networkController
1
create
1
seller
1
1
create
Seller
biddersIps: List<String>
biddersPorts: List<Integer>
encryptedOffers: List<EncryptedOffer>
Seller():
addBidderPort(int): void
getEncryptedOffers(): List<EncryptedOffer>
getBiddersPorts(): List<Integer>
addBidderIp(String): void
addEncryptedOffer(EncryptedOffer): void
getBiddersIps(): List<String>
SellerCommandLineInterface
scanner: Scanner
SellerCommandLineInterface():
readMessage(): String
displayWinner(String, Double): void
displayBidReceived(String): void
displayOfferReceived(EncryptedOffer): void
displayEncryptedPriceSended(): void
diplayHello(): void
waitOffers(): void
showMessage(String): void
displayResultsSent(): void
SellerNetworkController
managerIp: String
managerPort: int
sellerPort: int
sellerIp: String
SellerNetworkController():
fetchBid(): Bid
fetchEncryptedOffer(): ObjectSender
sendEncryptedPrices(EncryptedPrices): void
sendData(String, Integer, Object): void
waitData(): ObjectSender
fetchWinner(): Winner
ui
1
«interface»
ISellerUserInterface
displayWinner(String, Double): void
displayResultsSent(): void
displayBidReceived(String): void
diplayHello(): void
displayEncryptedPriceSended(): void
displayOfferReceived(EncryptedOffer): void
waitOffers(): void