

## Class Diagram Entities

Entity	Description
CentralCore	The main interface by which users are able to interact with the ticketing system
User	An abstract class that represents any user that interacts with the system
Admin	A privileged user that has access to create, delete, add credits and make refunds
Standard_Buy	A user that is able to only buy tickets - implementation of User
Standard_Full	A user that is able to buy and sell tickets - implementation of User
Standard_Sell	A user that is able to only sell tickets - implementation of User
Ticket	A class that represents a ticket that is sold for events
BuySellTransaction	A class that represents either a Buy or Sell Transaction
DailyTransaction	A class that represents the File that must be processed recording all of the daily transactions done.

## Methods

Class	Methods : Type	Parameters	Description
Admin	getUser: User		A method that returns the user object corresponding to the admin
Admin	createUser : User	(String username, String type, int credits)	A method for the admin to create a user
Admin	deleteUser : void	(String username)	A method for the admin to delete a user
Admin	getRefundRequests: Void		A method that will return all of the refund requests made.
Admin	refund : void	(String seller, String buyer, int sellerCredits, int buyerCredits)	A method for the admin to refund a buyer for a purchase made to a ticket seller
User	getUsername : String		A getter method to get a user's username
User	setUsername : void	(String username)	A setter method to set a user's username to a specified String.
User	getUserType : String		A method used to return the type of user a User is
User	setUserType : void	(String userType)	A method used to set

			the type of user a User is
User	getCredit : double		A getter method to get a user's credit amount
User	setCredit : void	(double credits)	A setter method to set a user's credit amount
User	addCredit : void	(double credits)	A method used to add credits to a user's account
User	buy : void		A method used to initiate and process a buy transaction
User	sell : void		A method used to initiate and process a sell transaction
Standard_Full	refundRequest :	(String seller, String buyer, int amount)	A method used by a full standard user to issue a refund for a ticket
Standard_Sell	refundRequest :	(String seller, String buyer, int amount)	A method used by a sell standard user to issue a refund for a ticket
CentralCore	getTransactions : List<Transaction>		A getter method used to get the list of transactions
CentralCore	addBuySellTransaction	(int transactionCode, String username, String sellerUser, int ticketQuantity, double price)	A method used to add a Buy/Sell transaction to the list of transactions.
CentralCore	getUserOperations : string	(String activeUser, String userType)	A method used to return the operations available to a user
CentralCore	getTickets : void		A method used to return the list of tickets
CentralCore	createDailyTransaction :	(int transactionCode, String	A method used to

	void	sellerUser, String username, int ticketQuantity, double price)	create a daily transaction
CentralCore	Login : void		A method used by a user to login to the system
CentralCore	Logout : void		A method used by a user to logout of a system
Ticket	setEventName : void	(String eventName)	A method used to set the name of the event on the ticket
Ticket	getEventName : string		A method used to get the name of the event on a ticket
Ticket	setSellerUsername : void	String sellerUsername	A method used to set the username of a seller on a ticket
Ticket	getSellerUsername : String		A method used to get the username of a seller from a ticket
Ticket	setTicketsinStock : void	(int ticketsinStock)	A method used to set the number of tickets in stock
Ticket	getTicketsinStock : int		A method used to get the number of tickets in stock
Ticket	setTicketPrice : void	(double ticketPrice)	A method used to set the price of a ticket to a specific amount
Ticket	getTicketPrice : void		A method used to get the price of a ticket