functions.md 4/9/2020

## **Functions**

## **EventCreation.sol Contract**

Function name	Functior visibility	-	Return Paramete	ers	Function Type	Modifier/Called By	Description
createEvent	external	uint256 maximumSea	bool eventCrea eventTicketing ts uint8 eventId		N/A	onlyEventOwner	- creates the event (lets say small music concert) every time owner wants to create - Will have maximum limit on the total number of seats available for the event - deploys the EventTicketingToken contract - notifies the event owner about the event creation - creates the mapping of event created with the event owner address
maximumSeats	s public	N/A	uint256 maximu	umSeats	view	N/A	- fetch the value of maximum number of tokens sold
constructor	public	N/A	N/A		N/A	N/A	- set the owner of the event
<b>EventTicketi</b>	ngToken.so	l Contract					
Function name	Function visibility	Input Parameters	Return Parameters	Function Type	Modifier/Cal By	lled Description	
buyToken	public	uint256 tokenId	uint256 tokenId, bool tokenBought	Davable	onlyBuyer	basically now the event.  - Mint the tok buy.  - Increment tl tokens sold.  - Notifies the details (like p	the tickets (which are treated as tokens) for ten, buyer is willing to the total number of buyer with the token rice) d will be basically to the seatNumber.
isEventOwner	public	N/A	bool isEventOwne	er view	N/A		eck whether the current s event owner or buyer
constructor	public	address _eventOwner	N/A	N/A	N/A	owner - store the ad	e address of the event
Function In	ct functions put irameters		out) Function Type (pure/view/payable)	Modifier/Called	Ву		Description
ownerOf ui	nt256 kenId	address	•	This function is u	used to get the	e owner/buyer of the	

functions.md 4/9/2020

Function name	Input Parameters	Return Parameters	Function Type (pure/view/payable)	Modifier/Called By	Description	
safeMint	uint256 fint tokenId onlyBuyer		onlyBuyer	This function will be used to mint the token which is willing to buy,  Note: There will be additional checks to restrict the buyer to mint again and also additional checks to restrict minting of invalid tokenIds		
burn	uint256 tokenIds	N/A	onlyEventOwner	This function is used to burn all the tokens after the event ends up.		

## SafeMath.sol Contract functions (High-Level layout) Main Contract functions

Function name	Input Parameters	Return Parameters	Function identifier	Modifier/Called By	Description
add	uint256 a,	uint256	N/A	This function will be used to calculate the number of tokens	
	uint256 8	sum		sold and to restrict the overflow error	

## Few Future scope functions

Function name	Input Parameters	Return Parameters	Modifier/Called By	Description
registerUser	N/A	bytes32 userId	User/Owner	To register the user logged in for the first time and creates the userId for new users registered.
getUserId	address _address	bytes32 userId	Logged in User	Get the user id for the current logged in user
getAllUserId	N/A	bytes32[]	Only Owner	Get all the user ids for all users