**Blockchain Based Food Delivery Dapp**

**fOoOdi**

**Abstract:**

It is an Blockchain Based Swiggy alike Food Delivery Dapp capable of Selecting, Ordering, Tracking, Payment by the users and Delivering, Getting Reward by the Delivery Person and the Amount is send to the Hotel.

**Contracts:**

* Token Contract
* ICO Contract
* User Contract
* Hotel Contract
* Delivery Executive Contract
* Main Contract
* Storage Contract (Payable)

**Users:**

* Customer
* Hotel Management
* Delivery Executive

**Functionalities:**

**Token Contract :**

It is the basic Contract in which the minting of tokens takes place. This Contract is automated and the user can buy contracts using Ethereum.

Can be minted if user orders an order and delivery executive delivers an item successfully and rewarded to the Executive and the User for More offers.

**ICO Contract:**

It is used to buy the Tokens from the Token Contract

**User Contract:**

It is the user contract where the user can be added to the Network Newuser(); or Existing user can use the network.

**Hotel Contract:**

It is the Hotel contract where there can New Hotels can be Added NewHotel(); or Existing hotel be a part of the Network.

**Delivery Executive Contract:**

It is the Executive contract where there can New Hotels can be Added NewExecutive(); or Existing Executive be a part of the Network.

**Main Contract:**

It is the main part in which every action is taken by the every individual and performs the task accordingly. Where the Users Can Select the List of Items SelectItem(); and Add to their cart AddToCart(); and pay for the Item Pay();

Try to add Feed back;

**Storage Contract (Payable):**

It is a payable contract where every Account pays to this contract and then After the delivery of the item Successfully the Tokens will be sent to the corresponding address.

**Output:**

**(Best Case):** If user wants to Order an Item, The user will send the payment to the Storage Contract. When a Executive Picks an Order, He’ll send his own Tokens to the Corresponding Hotel and Pick up the order. Once the Order is delivered to the User Then the Token in the Storage Contract will be send to the Delivery Executive along with some Reward Tokens ( Which will be Minted ) and The User also will get some reward points as an Appreciation.

**(Worst Case):** If the User cancels the Order the Money will not be send to the User Back and it will be directly send to the Delivery Executive Who picks the Order. If the Delivery Executive did not Delivers the Item, The tokens will be send back to the User and The Delivery Executive will get Negative Score.

**Future Implementations:**

Time Constraint Can be Included for Delivery Executive to Deliver the Order within the Time. If he Delivers within the Time he’ll get some Extra Rewards.

Time constraint can be included for the Hotel Management and Feed back about the Taste can be Included inorder to get some Reward points as an Appriciation.