**pragma solidity >=0.5.0 < 0.9.0;**

**contract CrowdFunding{**

**mapping(address=>uint) public contributors;**

**address public manager;**

**uint public minimumContribution;**

**uint public deadline;**

**uint public target;**

**uint public raisedAmount;**

**uint public noOfContributors;**

**struct Request{**

**string description;**

**address payable recipient;**

**uint value;**

**bool completed;**

**uint noOfVoters;**

**mapping(address=>bool) voters;**

**}**

**mapping(uint=>Request) public requests;**

**uint public numRequests;**

**constructor(uint \_target,uint \_deadline){**

**target=\_target;**

**deadline=block.timestamp+\_deadline;**

**minimumContribution=100 wei;**

**manager=msg.sender;**

**}**

**function sendEth() public payable{**

**require(block.timestamp < deadline,"Deadline has passed");**

**require(msg.value >=minimumContribution,"Minimum Contribution is not met");**

**if(contributors[msg.sender]==0){**

**noOfContributors++;**

**}**

**contributors[msg.sender]+=msg.value;**

**raisedAmount+=msg.value;**

**}**

**function getContractBalance() public view returns(uint){**

**return address(this).balance;**

**}**

**function refund() public{**

**require(block.timestamp>deadline && raisedAmount<target,"You are not eligible for refund");**

**require(contributors[msg.sender]>0);**

**address payable user=payable(msg.sender);**

**user.transfer(contributors[msg.sender]);**

**contributors[msg.sender]=0;**

**}**

**modifier onlyManger(){**

**require(msg.sender==manager,"Only manager can calll this function");**

**\_;**

**}**

**function createRequests(string memory \_description,address payable \_recipient,uint \_value) public onlyManger{**

**Request storage newRequest = requests[numRequests];**

**numRequests++;**

**newRequest.description=\_description;**

**newRequest.recipient=\_recipient;**

**newRequest.value=\_value;**

**newRequest.completed=false;**

**newRequest.noOfVoters=0;**

**}**

**function voteRequest(uint \_requestNo) public{**

**require(contributors[msg.sender]>0,"YOu must be contributor");**

**Request storage thisRequest=requests[\_requestNo];**

**require(thisRequest.voters[msg.sender]==false,"You have already voted");**

**thisRequest.voters[msg.sender]=true;**

**thisRequest.noOfVoters++;**

**}**

**function makePayment(uint \_requestNo) public onlyManger{**

**require(raisedAmount>=target);**

**Request storage thisRequest=requests[\_requestNo];**

**require(thisRequest.completed==false,"The request has been completed");**

**require(thisRequest.noOfVoters > noOfContributors/2,"Majority does not support");**

**thisRequest.recipient.transfer(thisRequest.value);**

**thisRequest.completed=true;**

**}**

**}**