

Code Eater

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pragma solidity >=0.5.0 < 0.9.0;

```
contract CrowdFunding{
    mapping(address=>uint) public contributors; //contributors[msg.sender]=100
    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; //10sec + 3600sec (60*60)
        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;
}
}

```