

Crowd funding project

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This is a program that is crowdfunding which is able to operate in Ethereum network. There are two type of users in this contract, The first one is a **Funder** who fund for funding success. The second one is a **Fundraiser** who create a funding for his project.

When **Fundraiser** create a funding, he needs to set up title, subtitle, content, goalAmount, minAvailableAmount, beginTime, endTime about his funding.

In order to withdraw Ether from a funding as **Fundraiser**, You need a successful funding that stored in this smart contract.

In order to withdraw Ether from a funding as **Funder**, A funding state must be failed or progress.

- The **getBalance** method that is located in crowdFunding would show you balance of this contract.
- All of Coin unit is wei.

Requirement

- `node >7.x.x && <17.x.x`
- `truffle ^5.5.x` (If you want to test on private network or deploy contract.)

Usage

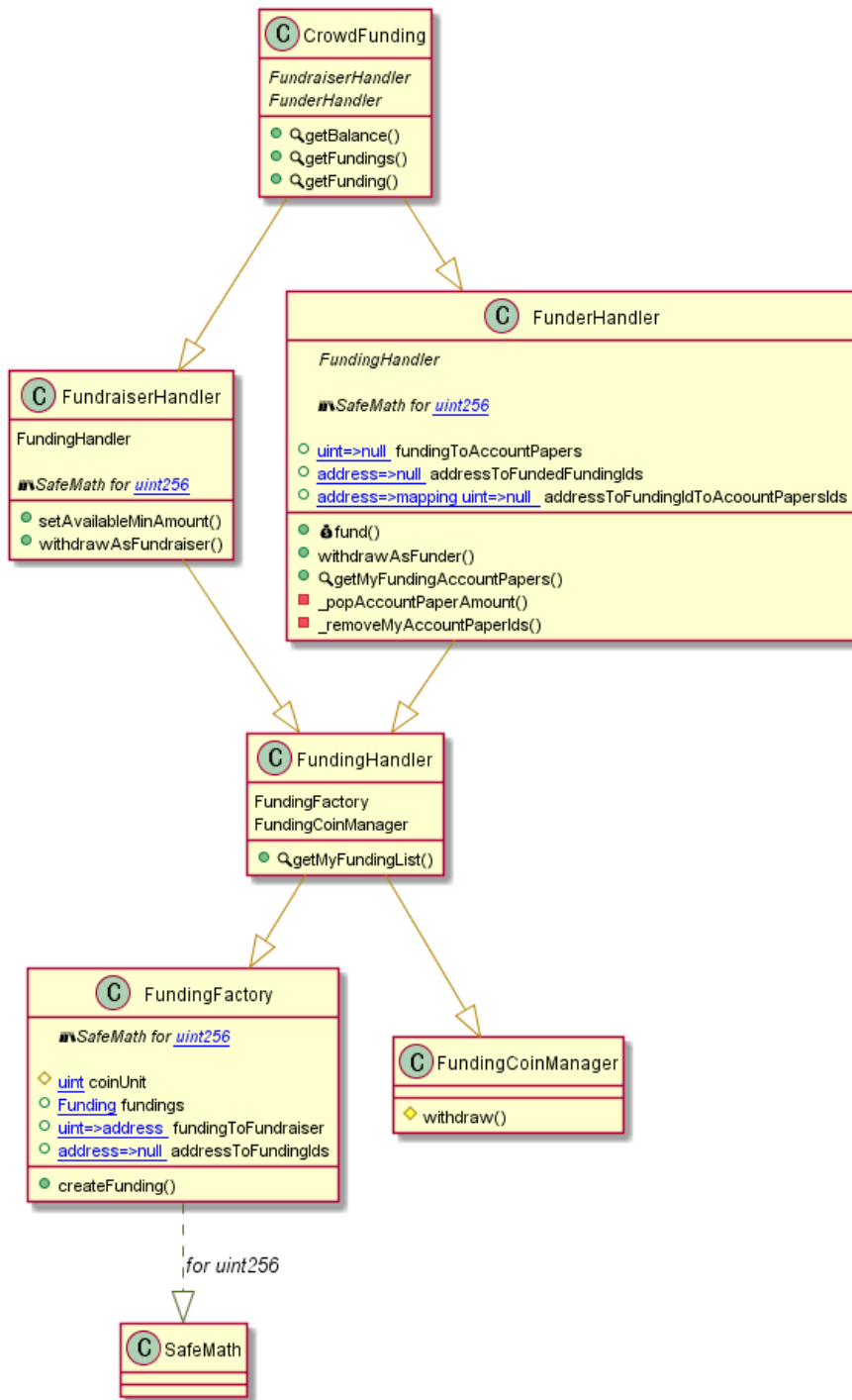
1. Make **.secret** file on root directory and put the mnemonic that you set up when you created the Ethereum account in **.secret** file.
 - If you don't have an Ethereum account, [create it here](#).
2. Change account value to yours in `/js/CrowdFunding.js`.
3. Refer To the API List below and modify the `/app.js` for What you want to do.

Method	Params	Description
getFunding	id	Return funding that is id that you put funding in contract.
getFundings		Return all of Fundings in contract.
createFunding	title, subTitle, content, goalAmount, availableMinAmount, beginTime, endTime	
fund	id, amount	
getMyFundingAccountPapers	id	This method would return receipts that you funded at id .
withdrawAsFunder	id	This method possible you to get a refund from funding that you funded.
withdrawAsFundraiser	id	When funding finished successfully, You can withdraw from funding that you made.
setAvailableMinAmount	id, amount	This method change funding 'available min amount'.













Test Publish
















Network	Contract	Txn Hash
Ropsten	0x8732FE7a3D5337836C85A2CDa5D371Ebc5308780	0xce227e8679e93e5ed3929d4fb40a9e5c1bbfc969941906ff7c832f72af3950c7

Contracts UML





Contracts Description Table

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
CrowdFunding	Implementation	FundraiserHandler, FunderHandler		
L	getBalance	Public 		NO 
L	getFundings	external 		NO 
L	getFunding	external 		NO 
FundraiserHandler	Implementation	FundingHandler		
L	setAvailableMinAmount	External 		ownerOfFunding
L	withdrawAsFundraiser	External 		fundingSucceeded

Contract	Type	Bases		
FundingHandler	Implementation	FundingFactory, FundingCoinManager		
FundingFactory	Implementation			
L	createFunding	External 		NO 
FundingCoinManager	Implementation			
L	withdraw	Internal 		
FunderHandler	Implementation	FundingHandler		
L	fund	External 		availableFund
L	withdrawAsFunder	External 		funded fundingInProgressOrFailed
L	getMyFundingAccountPapers	External 		NO 
L	_popAccountPaperAmount	Private 		
L	_removeMyAccountPaperIds	Private 		

Legend

Symbol	Meaning
	Function can modify state
	Function is payable