

1	Section 5 Real Projects with Etheroum	
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Ethereum and Solidity -The Complete Developer's Guide

Page 1       Time         Page 1       Time         Image: Comparison of the state of	User clicks 'Create Campaign' We send user the contract source code User modifies contract to remove security restrictions	
Page 1       Time            ← → C        https://www.draw.io         CrowdFund       Create Campaign         Campaign A       Campaign C	User clicks 'Create Campaign' We send user the contract source code User modifies contract to remove security restrictions	
	We send user the contract source code User modifies contract to remove security restrictions	
CrowdFund Create Campaign Campaign A Campaign C	User modifies contract to remove security restrictions	
Campaign A Campaign C		
	User deploys contract, gets address back	
Ormation D	User sends us address of newly deployed campaign	
	User sends us address, we publish new address on our site	Malicious user can deploy bad contract and steal money from it
Solution #	2	
Page 1	User clicks 'Create Campaign'	
► → C https://www.draw.io	We deploy a new campaign, get address back	
crowdFund Create Campaign	We publish new campaign on the site	
Campaign A Campaign C		
Campaign B		
		👎 We will pay for every contract deployment
Create Campaign Campaign A Campaign B	We instruct web3/metamask to show user a transaction that invokes 'Campaign Factory' User pays deployment costs. Factory deploys a new copy of 'Campaign'. We tell 'Campaign Factory' to give us a list of all deployed campaigns	Give me the addresses for all deployed campaigns User I want to create a new campaign Campaign @ Campaign @ Ca
		CampaignFactory Contract         Variables       deployedCampaigns       address[]       Addresses of all deployed campaigns
		Functions         createCampaign       Deploys a new instance of a Campaign and stores the resulting addition         getDeployedCampaigns       Returns a list of all deployed campaigns
ol) approvals;		
	Solution # Page 1 rowdFund Create Campaign Campaign A Campaign C Campaign B Solution #3 Page 1 Page 1 Page 1 The Ceate Campaign Campaign A Campaign C Campaign A Campaign C Campaign B	Solution #2   Page 1   Image: Im

![](_page_0_Figure_4.jpeg)