

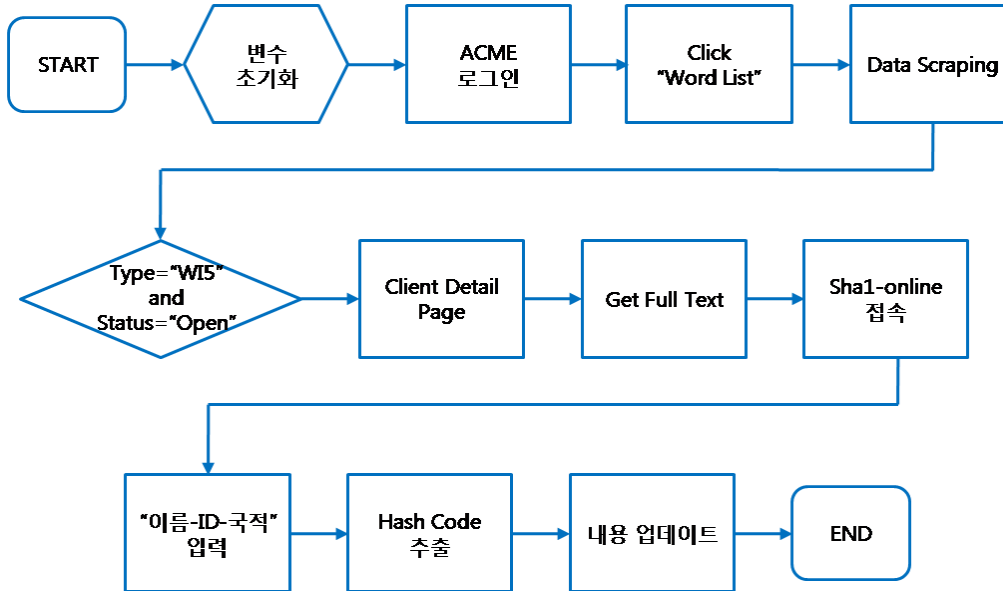
# 프로젝트 실습1\_TypeA

- Calculate Security Client Hash -

## 1. 소개

개인 정보를 기반으로 각 클라이언트에 대한 보안 해시를 생성하는 프로세스입니다.

## 2. 알고리즘



### 2.1 프로세스 설명

항목	설명	Screenshot
STEP1	"https://www.acme-test.com/"에 접속합니다.	
STEP2	사이트에 로그인 합니다. 1.Email주소, 2.패스워드를 입력합니다. *Exception1 : 비밀번호 masking 처리합니다. *Exception2 : 비밀번호 입력이 다를 시 다시 시도하는 Try-Catch 구문을 사용합니다.	
STEP3	Dashboard에 접속하여 "Work Items"를 클릭합니다.	

STEP4	Data Scraping을 사용하여 데이터를 추출합니다.	<div><div>Search Results</div><div>Please find below your work items. They need to be completed in the order specified by your manager.</div><table><tr><th>Actions</th><th>WIID</th><th>Description</th><th>Type</th><th>Status</th><th>Date</th></tr><tr><td><a href="#">Q</a> <a href="#">E</a></td><td>106981</td><td>Verify Account Positions</td><td>WI1</td><td>Open</td><td>2017-01-30</td></tr><tr><td><a href="#">Q</a> <a href="#">E</a></td><td>110271</td><td>Verify Account Positions</td><td>WI1</td><td>Open</td><td>2017-10-16</td></tr><tr><td><a href="#">Q</a> <a href="#">E</a></td><td>125552</td><td>Research Client Check Copy</td><td>WI2</td><td>Open</td><td>2018-01-23</td></tr><tr><td><a href="#">Q</a> <a href="#">E</a></td><td>141835</td><td>Calculate Client Security Hash</td><td>WI5</td><td>Open</td><td>2017-06-23</td></tr><tr><td><a href="#">Q</a> <a href="#">E</a></td><td>145171</td><td>Verify Account Positions</td><td>WI1</td><td>Open</td><td>2017-07-10</td></tr><tr><td><a href="#">Q</a> <a href="#">E</a></td><td>145322</td><td>Research Client Check Copy</td><td>WI2</td><td>Open</td><td>2018-01-27</td></tr><tr><td><a href="#">Q</a> <a href="#">E</a></td><td>160112</td><td>Research Client Check Copy</td><td>WI2</td><td>Open</td><td>2018-01-03</td></tr><tr><td><a href="#">Q</a> <a href="#">E</a></td><td>166712</td><td>Research Client Check Copy</td><td>WI2</td><td>Open</td><td>2017-08-14</td></tr><tr><td><a href="#">Q</a> <a href="#">E</a></td><td>168041</td><td>Verify Account Positions</td><td>WI1</td><td>Open</td><td>2017-09-14</td></tr><tr><td><a href="#">Q</a> <a href="#">E</a></td><td>172223</td><td>Process Vendor Invoice</td><td>WI3</td><td>Open</td><td>2018-02-04</td></tr></table><div>123456789</div></div>	Actions	WIID	Description	Type	Status	Date	<a href="#">Q</a> <a href="#">E</a>	106981	Verify Account Positions	WI1	Open	2017-01-30	<a href="#">Q</a> <a href="#">E</a>	110271	Verify Account Positions	WI1	Open	2017-10-16	<a href="#">Q</a> <a href="#">E</a>	125552	Research Client Check Copy	WI2	Open	2018-01-23	<a href="#">Q</a> <a href="#">E</a>	141835	Calculate Client Security Hash	WI5	Open	2017-06-23	<a href="#">Q</a> <a href="#">E</a>	145171	Verify Account Positions	WI1	Open	2017-07-10	<a href="#">Q</a> <a href="#">E</a>	145322	Research Client Check Copy	WI2	Open	2018-01-27	<a href="#">Q</a> <a href="#">E</a>	160112	Research Client Check Copy	WI2	Open	2018-01-03	<a href="#">Q</a> <a href="#">E</a>	166712	Research Client Check Copy	WI2	Open	2017-08-14	<a href="#">Q</a> <a href="#">E</a>	168041	Verify Account Positions	WI1	Open	2017-09-14	<a href="#">Q</a> <a href="#">E</a>	172223	Process Vendor Invoice	WI3	Open	2018-02-04
Actions	WIID	Description	Type	Status	Date																																																															
<a href="#">Q</a> <a href="#">E</a>	106981	Verify Account Positions	WI1	Open	2017-01-30																																																															
<a href="#">Q</a> <a href="#">E</a>	110271	Verify Account Positions	WI1	Open	2017-10-16																																																															
<a href="#">Q</a> <a href="#">E</a>	125552	Research Client Check Copy	WI2	Open	2018-01-23																																																															
<a href="#">Q</a> <a href="#">E</a>	141835	Calculate Client Security Hash	WI5	Open	2017-06-23																																																															
<a href="#">Q</a> <a href="#">E</a>	145171	Verify Account Positions	WI1	Open	2017-07-10																																																															
<a href="#">Q</a> <a href="#">E</a>	145322	Research Client Check Copy	WI2	Open	2018-01-27																																																															
<a href="#">Q</a> <a href="#">E</a>	160112	Research Client Check Copy	WI2	Open	2018-01-03																																																															
<a href="#">Q</a> <a href="#">E</a>	166712	Research Client Check Copy	WI2	Open	2017-08-14																																																															
<a href="#">Q</a> <a href="#">E</a>	168041	Verify Account Positions	WI1	Open	2017-09-14																																																															
<a href="#">Q</a> <a href="#">E</a>	172223	Process Vendor Invoice	WI3	Open	2018-02-04																																																															
STEP5	조건 : Type ="WI5" 이면서 Status = "Open"인 데이터를 추출합니다.																																																																			
STEP5	조건에 해당되는 Client Detail Page로 이동합니다. "https://www.acme-test.com/work-items/" + WIID(변수)  Ex) https://www.acme-test.com/work-items/106981 → Type ="WI5" 이면서 Status = "Open"을 만족하는 WIID값	<div>Work Items</div> <div>Home / Work Items</div> <div>Verify Account Positions</div> <div><div>Account Information Details</div><div>Client ID: XW47730 Account Number: 850177 Account Amount: -1859125 USD</div><div>Work Item Details</div><div>WIID: 106981 Type: Verify Account Positions Status: Open Date: 2017-01-30</div><div>Update Work Item</div></div>																																																																		
STEP6	1. ClientID 2. ClientName 3. ClientCountry 을 추출합니다.																																																																			
STEP7	"http://www.sha1-online.com" 으로 이동합니다.	<div>Home Page   <a href="#">SHA1 in JAVA</a>   <a href="#">Secure password generator</a>   <a href="#">Linux</a></div> <div>SHA1 and other hash functions online generator</div> <div>hash</div> <div>sha-1</div> <div>SHA-1 MD5 on Wikipedia</div> <div>We love SPAIN and oldpics.org</div>																																																																		
STEP8	ClientID-ClientName-ClientCountry를 입력하면 Hash Code가 나옵니다.(중간에 하이픈('-')을 포함해야 합니다.) 그 다음 Hash Code를 추출합니다.	<div>Result for sha1: 388ad1c312a488ee9e12998fe097f2258fa8d5ee</div>																																																																		
STEP9	Work Item Detail로 다시 돌아와서 "Update Work Item"을 클릭합니다.																																																																			
STEP10	Add Comment 부분에 복사한 "Hash Code"를 넣고 상태는 "Complete"로 설정합니다.	<div>Update Work Item</div> <div>Update Work Item</div> <div>WIID: 106981 Type: Verify Account Positions Status: Open Date: 2017-01-30 Comments:</div> <div>Add Comments:</div> <div></div> <div>New Status:</div> <div>---</div> <div>Update Work Item</div>																																																																		
STEP11	등록이 완료되면 작업을 반복합니다.																																																																			

STEP12	(추가요건) ClientID, ClientName, ClientCountry, Hashcode 를 엑셀파일에 저장합니다.	<table><tr><th>ClientID</th><th>ClientName</th><th>ClientCountry</th><th>HashCode</th></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>	ClientID	ClientName	ClientCountry	HashCode																																
ClientID	ClientName	ClientCountry	HashCode																																			
STEP13	(추가요건) 담당자에게 첨부파일을 메일로 전송합니다.	담당자 주소 : ksarpaedu1@gmail.com																																				