

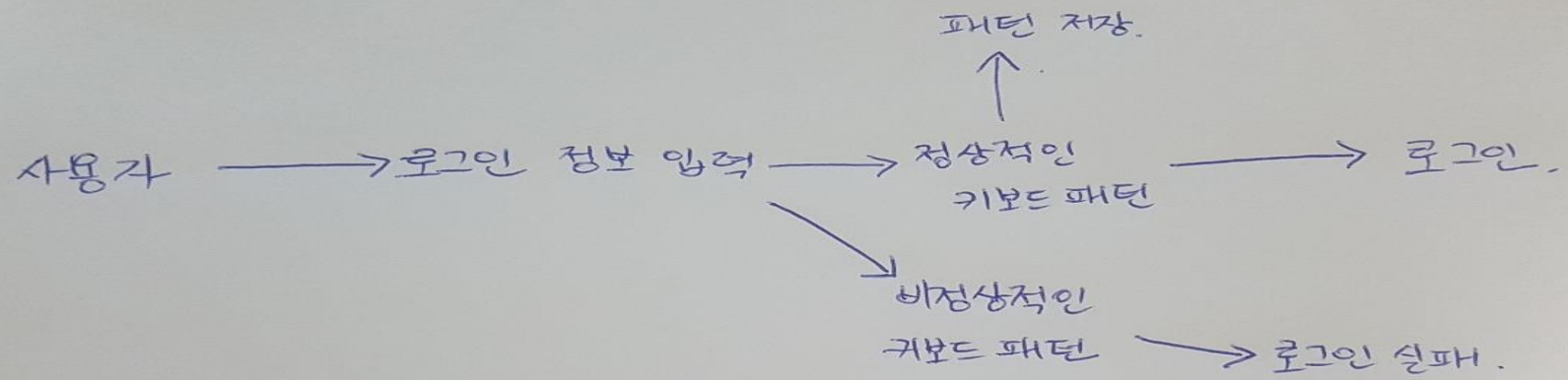
졸업프로젝트 1,2주차 보고서

주제 : 사용자 키보드 입력패턴을 이용한 계정인증 보안

팀명 : 광클

201604142 박종혁

지도



HMW

어떻게 하면

보안성을 더 높일 수
있을까?

어떤 방법이

가장 정확도를

높일 수 있을까?

어떻게 하면

개개인의

입력 리듬을

데이터와 시퀀스
있을까?

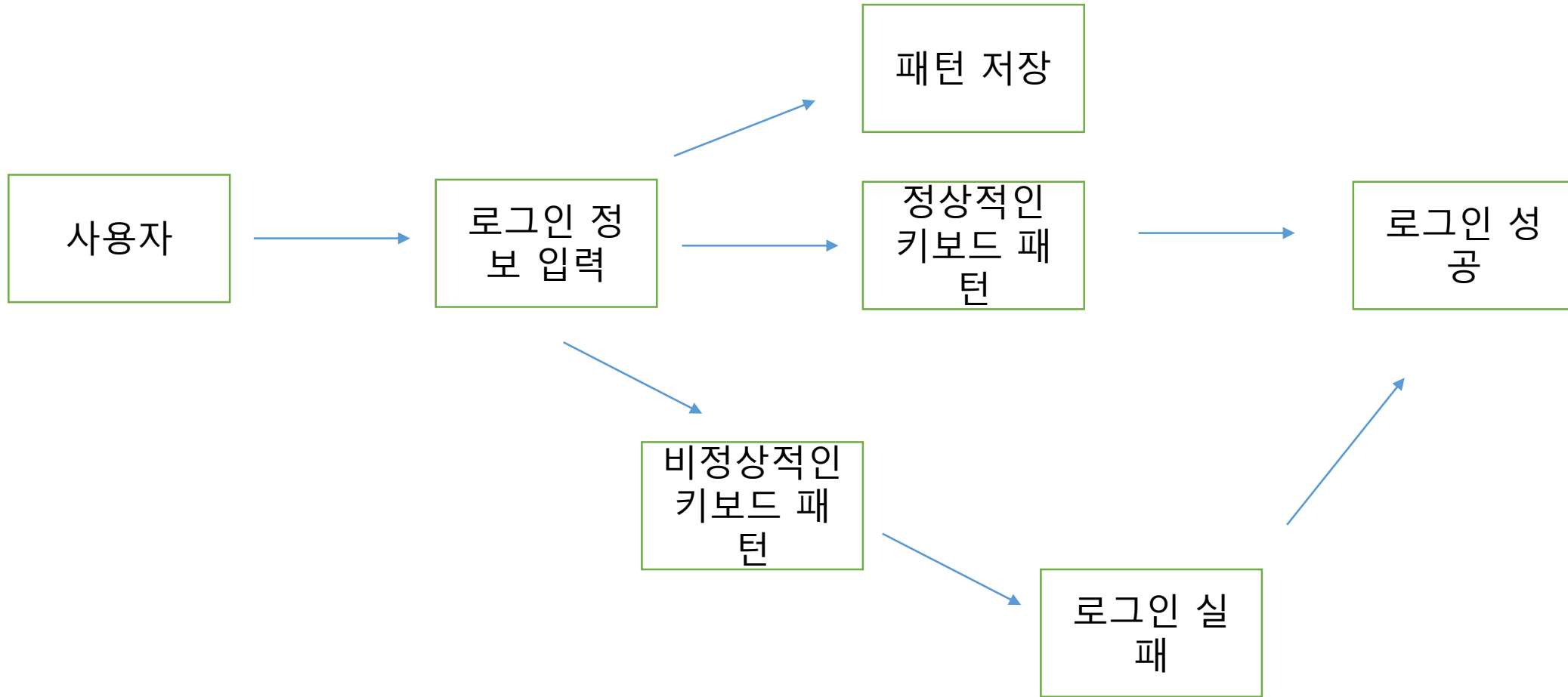
어떻게 하면

최소한으로

시간을 써서

사용자를 인증할 수 있을까?

최종 지도



최종 HMW

어떻게 하면 최소한
의 시간으로 로그인
할 수 있을까?

어떻게 하면 보안성
을 높힐 수 있을까?

어떻게 하면 사용자
가 신뢰하게 할 수 있
을까?

어떻게 하면 로그인
창을 한눈에 잘 보이
게 할 수 있을까?

What is Keystroke Dynamics

Keystroke dynamics is the method of identifying or verifying the user based on his or her individual typing pattern. Keystroke dynamics relies on analyzing the user's behavior and interaction with the input device, rather than something that user knows or possesses. Independent research and tests have demonstrated that keystroke rhythms are unique to individuals and are an excellent means of user identification. Moreover, unlike other biometric systems that may be expensive and time-consuming to implement, keystroke dynamics requires only a keyboard or a touchpad.

키스트로크 다이나믹스를 연구하고 있는 기관입니다.

- **FAQ**
- Who was Keystroke DNA created for?
- Keystroke DNA can be used in any web application that can benefit from increased security. It is a Business-to-Business solution, and at this time we do not offer a solution targeted at end customers.
- How do I integrate Keystroke DNA?
- Keystroke DNA can be easily integrated into any web application with just a few lines of code. Please, read the [documentation](#) on our website. If you have any difficulties with the integration, our technical support team is available to help.
- What data are you storing?
- We are storing the User's identifier that is provided to us by the party that integrates Keystroke DNA into their web application. The User Identifier can be anything including a combination of random character or an e-mail address. In addition, we create and store biometric profiles, which are based on the User's typing patterns on various devices.
- What languages does Keystroke DNA support?
- Keystroke dynamics is efficient in any language as it analyses only the typing patterns and not what is actually being typed. Therefore, our algorithms are technically language independent.
- Why is Keystroke DNA better than other biometric authentication solutions?
- In contrast to other biometric authentication systems, keystroke dynamics offers the promise of high confidence user identification without the need of any special hardware.
- Why not just use more stringent requirements for password strength?
- A password that is easy to remember is generally also easy for an attacker to guess. Passwords that are difficult to remember reduce security of a system because users often need to write down or electronically store their password using an insecure method, will need frequent password resets, and are more likely to re-use the same password.
- What is the origin of Keystroke Dynamics?
- During World War II, Military Intelligence discovered that an individual had a unique rhythm of keying in a Morse Code message. As a result, this biometric feature was used to distinguish ally from enemy and later became known as keystroke dynamics.

이 기술에 대한 많은 정보를 얻을 수가 있었습니다.

Crazy 8's

Login.

ID

PW

보안을 위하여
사용자의 키보드
패턴을 기록합니다.

회원 가입.

ID

PW

PW pattern.

입력 패턴

저장을 위해

비밀번호를

5번 입력 해주세요.

패턴 감지 기능을
사용하시겠습니까?

보안성이 올라갑니다.

입력 패턴 추가하기.

입력 패턴 기록.

1.	~ ~	<input type="button" value="삭제"/>
2.	~ ~	<input type="button" value="삭제"/>
3.	~ ~	<input type="button" value="삭제"/>

로그인 기록

2020.09.01	~ ~	실패
2020.09.02	~ ~	성공

- Github : <https://github.com/quick-click/design-sprint/tree/master/assignment5>
Youtube : <https://youtu.be/tA3Aad8HGBg>