

# iAuth

iAuth Technical Overview by Theo Nakfoor

## Technical Overview

iAuth is a system based on interconnectivity between the Cloud, web services and some downloaded on-system Windows programs.

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Main Site: <https://iauth.co>

API: <https://iauth.co/api>

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## Cloud Services

iAuth utilizes cloud services to provide quick connections between the web and the fingerprint scanner on site.

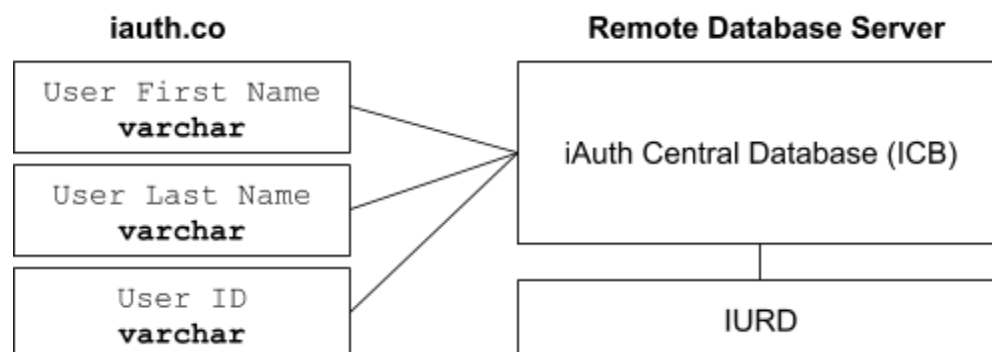
### MySQL User Storage Essential Service

Once a fingerprint is enrolled in the fingerprint scanner, administrators create a user record in the iAuth User Record Database (**IURD**). User records are *not-encrypted* because no sensitive information is present, identifiers are simple 1-3 digit numbers.

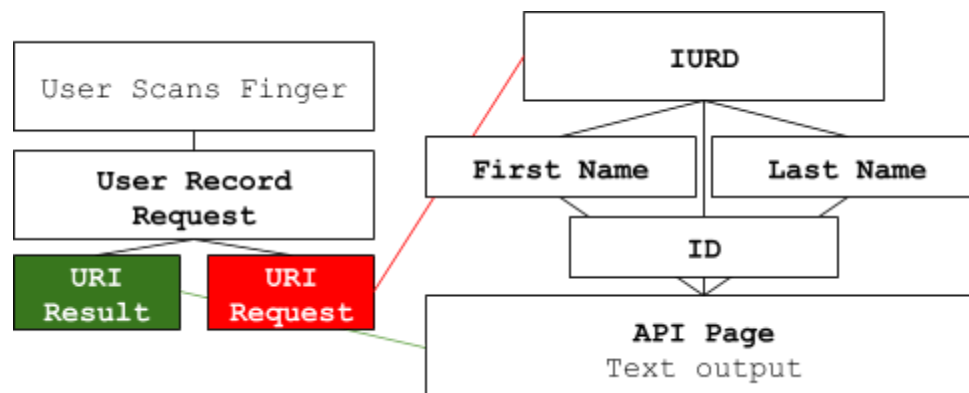
*Example User Record in IURD:*

First Name	Last Name	ID
John	Doe	1

*How Record are Created:*



*How Records are Accessed:*



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## MySQL RealTime Cache **Essential Service**

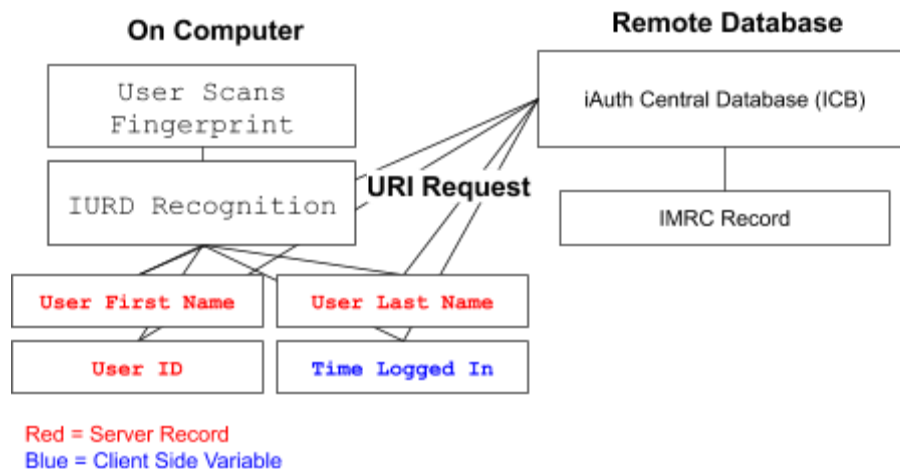
Once a user scans their finger, and the user has been identified through IURD, a record is created in the iAuth MySQL RealTime Cache (**IMRU**). User data *is not encrypted* here since no sensitive data is stored. The IMRU is accessed by two services, Xerus Suite 2017 (Pages 4-5) and the Admin Panel (Page 6).

*Example Logged-In-User Record in IMRU:*

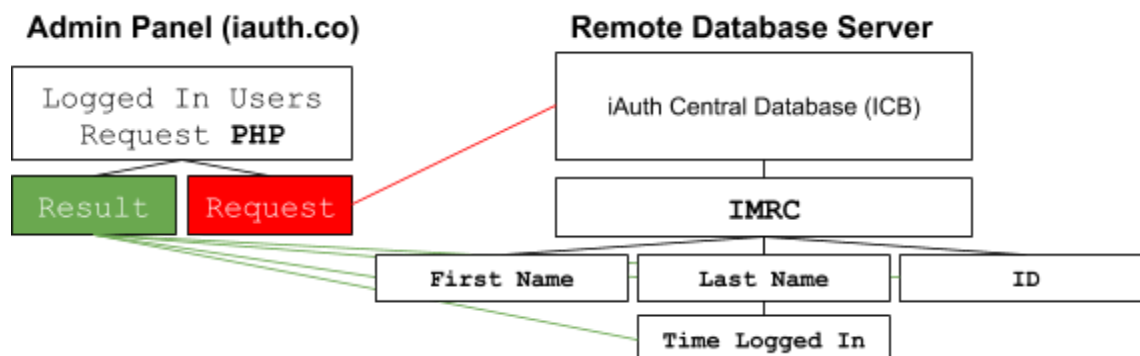
First Name	Last Name	ID	Time Logged In
John	Doe	1	9:15

Time in this database is logged as 24-hour time, (1:00 through 24:00) in order for the computer to return more accurate volunteer hour times.

*How IMRU Records are Created:*



*How IMRU Records are Accessed:*



## iAuth Web API Developer Service

The iAuth Web API allows easy access to all of iAuth's services. This system requires a token, but allows other programs to access information such as if a user is logged in, the ability to gain a user's id from a name and more.

*Web API Types:*

**Get ID** - Get a user's ID from a first and last name.

Argument	Purpose
&first	First name to get ID from
&last	Last name to get ID from
&db	Database to pull ID from

**Logged In** - Check if an ID is currently logged into a database.

Argument	Purpose
&id	ID to check login status
&db	Database to reference

**Valid User** - Check if a First and Last name combination is a valid combo. Helpful in a web login.

Argument	Purpose
&first	First name to check
&last	Last name to check
&db	Database to reference

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## iAuth Web API (cont.)

*Request Format:*

