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DNSCAPTURE

A DNSSEC Diagnostic Platform

<http://dnscapture.com>

DEV TEAM

We are developing a platform
DNSCAPTURE for internet community
that will help in DNSSEC verification and
end users and DNS/DNSSEC
implementers



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Application Developer

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DNSCAPTURE

A DNSSEC validation website based on **DYSPYTHON** that will validate **Chain of Trust** (CoT) and highlight configuration/security issues in DNSSEC configurations

ZONE VALIDATION

Checks all the records in your zone
NS, MX, A, AAAA, SOA, DNSKEY, DS, NSEC/NSEC3

SLD VERIFICATION

Able to verify second-level domain DNSSEC
record validation

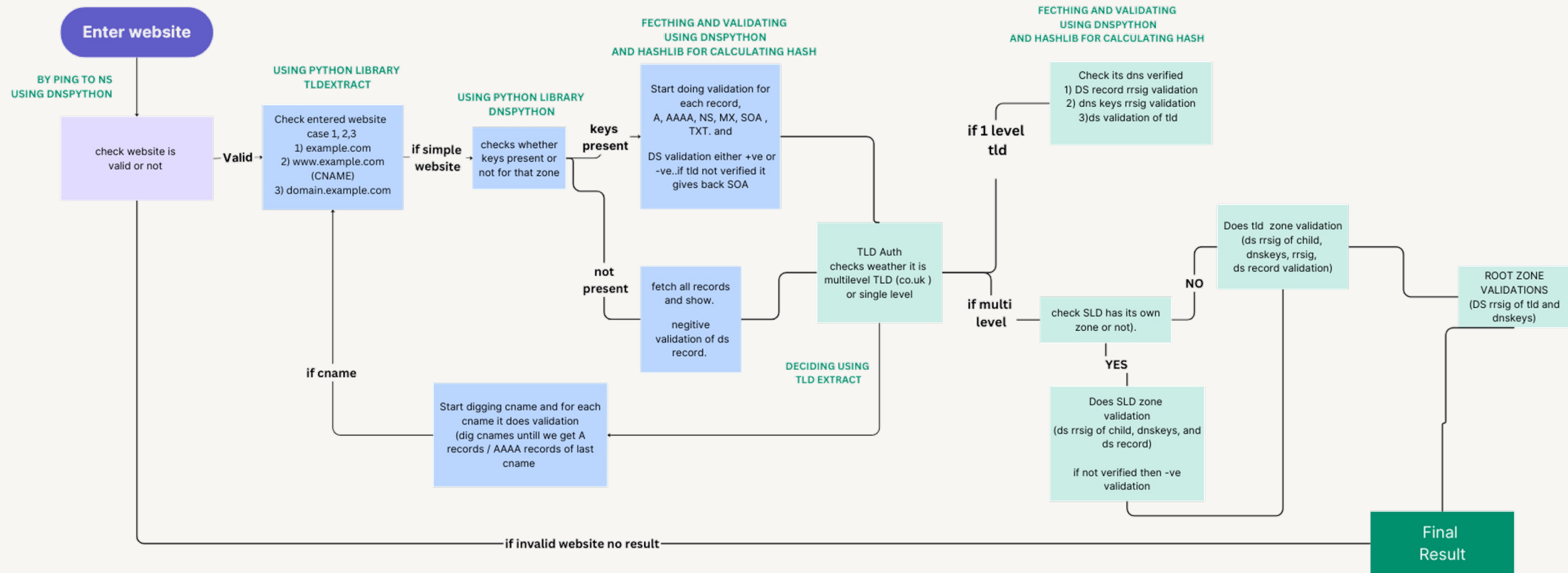
CDN BASED DNSSEC

Able to verify multi-layer CDN CNAMEs and do
DNSSEC Validation

NEGATIVE VALIDATION

NSSEC validation of a zone at domain level as
well as at TLD level

VERIFICATION WORKFLOW



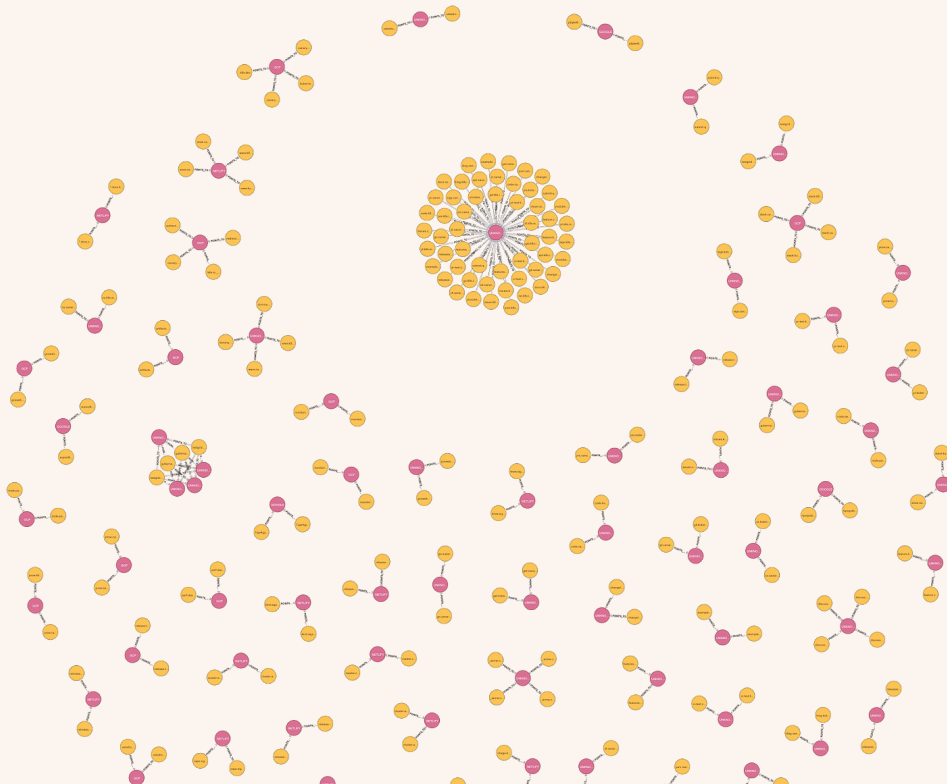
CHAIN OF TRUST VERIFICATION

DNSCAPTURE DEVELOPMENT

Python base development stack

Will be uploaded on **Github** for community

Will be establishing a big team of **contributors**



dnspython

<https://www.dnspython.org/>

DNSViz

<https://dnsviz.net/>

TLDextract



FEATURES IN FUTURE

GRAPH ANALYSIS

DNSViz like multi-layer graph visualization for easy understanding

PROBLEM RESOLUTION [rfc8914](#)

Recommend different solutions to issues found in DNSSEC

PASSIVE DNSSEC

Time Chart of DNSSEC modifications to different domains/zones

DNSSEC CRAWLER

Crawl the DNSSEC information and build visualizations



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SHORT DEMO **DNSCAPTURE**



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THANK YOU

Hafiz Farooq | Naveed Azam

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