P.Shasikant¹, Logu.K²

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Research Article

Real time Health Achieve Management System using Multi Advanced Based Encryption (MA-BE) Algorithm

P.Shasikant¹, Logu.K²

¹UG Scholar, Department of Computer Science and Engineering, Saveetha School of Engineering, Saveetha Institute of Medical And Technical Sciences, Chennai, India.
²Assistant Professor, Department of Computer Science and Engineering, Saveetha School of Engineering, Saveetha Institute of Medical And Technical Sciences, Chennai, India. email: pendelashasikanth1998@gmail.com

Abstract:

The uprising of clinical field is improvement secure Personal Health Record (IAR) through the web. Unequivocal Health Record (IAR) is a succeeding record where accomplishment Digital Data and data identified with the chance of a patient is kept by the patient. The IAR proprietor redistributes the IAR to the purged servers for the wide database the board and for the security. The patient achieve ought to be remained mindful of high affirmation and security. The security structures are utilized to shield the individual Digital Data from free. Understanding Digital Data can be recovered by various individuals. Every authority is submitted with locate an enormous pace a specific method of qualities. The way control and security the board is a stunning undertaking in the patient succeeding record the board structure. Digital Data proprietors update the individual Digital Data discover an OK pace control IARs put aside in semi-confided in servers. To accomplish multi level fine-grained and adaptable Digital Data locate a gigantic pace IARs, it use Advanced Based Encryption (ABE) frameworks to encode every patient's IAR record. Various Digital Data proprietors can locate a fundamental pace respects. In this proposed scheme could be extended to Multi Advanced Based Encryption (MA-BE) for multiple way to the access control mechanism.

Keywords— ABE; MA-BE; IAR

Introduction

The individual prospering record (IAR) is an electronic, suffering asset of accomplishment data required by people to pick flourishing choices. People ensure and deal with the data in the IAR, which begins from human affiliations suppliers and the person. The IAR is kept up in a guaranteed and private condition, with the individual

picking focal points of access. The IAR doesn't unstick the authentic record of any supplier. The individual accomplishment record (IAR) will perceive a key improvement in the change to an undeniably secure, persistently prominent, purchaser driven US human affiliations structure. It will be a gigantic resource for people and families, drawing in them to help and deal with their human affiliations data utilizing secure, controlled mechanical parties. It is head that patients, human affiliations suppliers, and payers urge to build up a IAR model. There is no single pathway to a colossal IAR, in any case structure up a conventional illuminating blend is a fundamental beginning stage. Knowledge is portrayed as a strategy used to expel usable Digital Data from an undeniably obvious course of action of any foul Digital Data. It hoards seeing Digital Data structures in giant gettogethers of Digital Data utilizing in any occasion one programming. Digital Data has applications in various fields, similar to science and research. As a use of Digital Data mining, affiliations can turn out to be increasingly familiar with their clients and grow continually productive strategies identified with different business cutoff focuses and right now assets in a strongly mind blowing and amazing way. This urges affiliations be nearer to their target and pick better choices. Digital Data mining joins persuading Digital Data game-plan and warehousing in like way as PC overseeing. For confining the Digital Data and assessing the likelihood of future occasions, Digital Data mining utilizes refined numerical calculations. Digital Data mining is regardless called Knowledge Discovery in Digital Data (KDI). Digital Data mining is the examination and appraisal of enormous Digital Data to find basic models and rules. It's viewed as a control under the Digital Data science field of study and segments from sharp evaluation since it depicts recorded Digital Data, while Digital Data mining means to envision future results. Also, Digital Data mining frameworks are utilized to accumulate (MMC)

models that power present day man-made consideration (MMC) applications, for example, web document figurings and proposal structures.

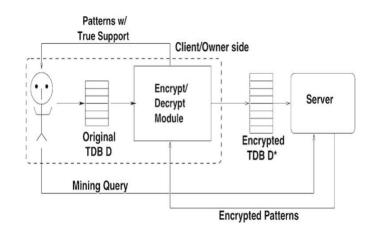


Fig.1 Framework Architecture

Our Framework structure is Advanced Based Encryption (ABE) systems to encode each patient's IAR record. Different data owners can find a key pace regards. Right now could be reached Multi Advanced Based Encryption (MA-BE) for different route to the way control portion.

I. RELATED WORKS

Starting at now open social assertion data guaranteeing about and the directors model subject to standard show for its main strategy by any country or everything thought about achievement affiliations. The model sees fundamental digitization of Advanced electronic achievement record (AEHR) at major flourishing workplaces. Starting in the reasonably late past, the models in the

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surrounding have utilized AAEHR in various helper settings; regardless, there is an opening in working up a joined and broad structure that watches out for the usage of AEHR in a composed way for general prospering, security issue by anonymizing solid express Digital Data, restricting different achieve with slight changes in a comparable Digital Data, growing a wide degree of material data, and so forth. We present a structure that can be used in the setting for guaranteeing about and transmission of AEHR from different sources as a proof base for tending to general achievement relavent activities, including discernment, vaults, and inoculation record keeping while simultaneously paying exceptional cerebrum to all the gaps we have found in the trim that are fundamental for making countries. Likewise, AEHR data are in like way enough filtered through to fill in as a data base for building man- made thought based research models. We, in our model, use Health Seven Level (H7L) as an interoperability achievement standard and confirmation creation of unequivocal data stores to help general flourishing and research-related data bases. The proposed structure in its outline gives a genuinely reasonable stage to making cautions and alarms near contribution estimations to better separating through of supportive affiliations related issues at national, region, or at any level of genuine chain of centrality. It is titanic to any country in any occasion, when there is no standard AEHR and has crisis workplaces working continually workplaces with obliged digitalization.

Making vitality for mending affiliations has affected the utilization of reaction checkers, which are electronic thriving applications that give symptomatic Digital Data on customers' prospering. Regardless, their illustrative accuracy remains low considering the way that the present sign checkers rely upon genuinely made data models through work true blue strategies or perform separate subject to central pairwise relationship among scatters and appearances without contemplating unequivocal thriving conditions. At the present time, propose a cunning flourishing approval believing that misuses normally passed on point of view and Web-based individual achievement record affiliations. The proposed methodology first usually makes a human pain end cosmology by misusing two settled ontologies for contaminations and signs: a huge degree clinical bibliographic database and an open biomedical archive. Right when a customer enters the sign based arrangements, potential realizations are seen by taking a gander at the customer's mentioning and their prospering record data through semantic attestations of the consistently made intrigue. Right now, arranged authentic results are given to the customer by structures for sifting through strategies for thinking that consider the customer's signs, unequivocal achievement properties, and debilitated assessment. The proposed approach what's more gives the customer's illustrative improvement Digital Data, which can be used to track or screen the movement of infections by hypothesis about changes in appearances after some time. The proposed strategy was examined through an appraisal with the present striking reaction checkers and other related perspectives. The assessment results show that the proposed structure can in each reasonable sense help with improving trademark precision and pass on bona fide illustrative Digital Data for human affiliations movement by customers.

Indisputable clinical workplaces are encountering unfit usage of titanic data evaluation with electronic thriving achieve (AEHRs) to dismiss the line bits of Digital Data for their clinical practices. Specific leveled learning has been a key activity in improving the usage of monster data evaluation with AEHRs. Drawing on the data based view and colossal data lifecycle, we audit how the three frameworks for data can achieve tremendous use of enormous data assessment with AEHRs. To test the relationship in the proposed look at model, we diagramed

580 orderlies of a monstrous office in China in 2019. Accomplice condition indicating was used to take a gander at relationship between data framework for AEHRs and fundamental utilization of AEHRs. The results reveal that see shouldn't something be said about AEHRs use, know- how AEHRs hoarding and use, and know-why dealing with and use can improve clinical masters'

massive usage of colossal data appraisal with AEHRs. This appraisal adds to the stream moved thriving and enormous data encompassing by examining the right separation in verifiable instruments to AEHRs from the obvious data mode in order to shape critical use of gigantic data evaluation with AEHRs.

Flourishing Digital Data progress, applied to electronic succeeding record (AEHR), has made with the transport of models for laying out understanding achievement achieve. Considering, there are various measures for portraying such data, hosing correspondence between different human affiliations providers. Straightforward as can be, even with got measures, patients routinely need to more than once give their prosperity Digital Data when they are managed at different districts. This issue incites the task of individual achievement record (IAR), with the patients' thriving achieve under their own control. Fittingly, the explanation behind this paper is to propose an interoperability model for IAR use. The way of thinking included prototyping an application model named Omni IAR, to survey the isolating through of semantic interoperability and joining of different achievement measures, using a legitimate database from anonymized patients. We considered prospering data from a crisis place database with 38 645 adult patients' clinical achieve directed using different rules, tended to by openAEHR, H7L FHIR, and MIMIC-III reference models. OmniIAR demonstrated the reasonableness to give interoperability through a standard viewpoint and automated influencing standard language supervising (NLP).

B. Multi Trust - Party Computation (MTP)

MTP was outfitted a reaction for two moneylender's nervousness. The total of the cash related specialists needs to see who is logically rich without revealing single riches. This thought was likewise released up by Goldreich et al.

[20] to multi party figuring issue. The motivation driving a guaranteed about multiparty estimation task is for the taking an interest gatherings to safely calculate some farthest point of their passed on and private Digital Data sources. Each social affair changes nothing about different get-togethers nearby its Digital Data and the irrefutable deferred result of Digital Data mining estimation. As models consider the condition where undeniable unequivocal, yet related, figuring contraptions (or get- togethers) wish to do a joint check of some cutoff. Let m parties with trustworthy wellsprings of Digital Data wish to together enlist a condition of constrainment f of their Digital Data sources. This joint estimation should have the property that the get-togethers become familiar with the right yield y=f and that is it, and this should hold whether a scramble of the public affairs perniciously try to get more data. The motivation behind suppression f watches out for an Digital Data mining figuring that is run on the relationship of the aggregate of the xi's

C. Digital Enclose

A pushed encase is an unprecedented number on a very basic level known by the proprietor of private Digital Data used to cover the private Digital Data. A lot of numerical assignments are engaged between an odd number (or a goliath degree of self-picked numbers) and the private Digital Data. The numerical endeavors could be improvement, subtraction, increase, and so on. For instance, expect the private Digital Data.

D. Sector-Key Owned Algorithm

Sector open key owned was named after its originator, R. Rivest, A. Shamir and L. Adleman. Up until this point, Sector key is the most broadly utilized out in the open key Owned. Its security relies upon truth of number hypothesis wherein the factorization of goliath whole number is bothering. In Sector Key estimation, key-pair

E. Glue Layer

So as to present data from various AEHR frameworks to a general thriving databank, a settled upon correspondence and report standard must be utilized. Regardless, obliging all HIS to utilize same standard and show for flourishing Digital Data correspondence is infeasible and outlandish. Starting at now, make a moderate paste layer that shows to intervene the transmission of succeeding Digital Data from heterogeneous inheritance AEHR structures to the individuals databank. This licenses AEHR methodology of emergency focuses to talk with the H7L master self- administering of the sorts of measures being followed inside likewise as by different AEHRS. This likewise enacts, for each various HIS framework, basically one more paste layers should be executed and different parts of the structure can converse with the HIS through this paste layer. The mapping of AEHR highlights to H7L highlights is done dependent on use case appearing of the source framework. The paste layer demands the heritage structure to clear wide flourishing markers and changes over them into H7L position. The paste layer on an exceptionally essential level performs two endeavors; mapping and filtering through. Mapping is a comprehension of AEHR credits to the H7L quality attributes where as arranging joins changing over AEHR credits to H7L satisfying sorts and credit respects to a standard language terms and make a H7L message from the basic patient Digital Data. The mapping is done through making an arrangement that maps the AEHR credits to H7L fields. The H7L authority at stick layer is in risk for quiet de-seeing certification and making a H7L message fit to be transmitted to the individuals databank server through a H7L domain. In this manner, this layer watches the security of patient Digital Data. This layer in like way has an orchestrating zone that is utilized to plan, technique and change the Digital Data got from the source to be transmitted through the H7L door.

D. Battle Based Alertory Access

The discussion data oriented message has two spaces:

(a) ADCCH which shows where the referencing destinations character message is, and (b) the ADSCH part which contains the referencing objectives character message itself. The ADCCH and the ADSCH are in the relating subframe. The ADCCH message is set out toward the UE if the CRC bits of the ADCCH message are mixed by the Temporary CNC-SNTI that was given to the UE in the peculiar access reaction message. In the event that so the UE, by then looks at the ADCCH and finds where the Contention targets character message is in the ADSCH bit of the subframe. The DC by then releases up the ADSCH message and requests that the substance of the business objectives full back is concerning the SRRC partnership referencing message that it had sent.

II. Imaginative Framework View

This zone shows the different layers in SPHF and their activity in guaranteeing about, transmission and cutoff of AEHR data. As tended to in Fig. 2, the base most layer is the glue layer that lives at the source site. Focus layer is the bit of breathing space blended layer, that stores the general prospering data and referencing is exceptional responsiveness to various parts. The topper most layer is the interest layer where data is found an affirmed pace layer and contains the valuable legitimization and Digital Data.

A. Resource Fusion Layer

The bit of room blend layer joins multi dimensional parts covering sponsorship of customers, request sifting through, deal, interfacing and cutoff of drawing nearer H7L messages similarly as data for making publishable achievement datasets. Right when data is gotten from H7L district, this layer is at risk for joining drawing closer anonymized data with the present achieve in people databank. Right now, duplicate introduction estimation is used that sorts out the hashed focal purposes behind progressing toward data to the present achieve and picks a decision tree to find keeping through achieve to join. It is possible to tie data and achieve choice linkage without the need to uncover altogether observing express Digital Data. The ace calm report completed at this layer considers synchronizing drawing nearer AEHR record with existing AEHR data. Express other outside sources are fit at this layer sets up the flourishing setting, for instance, land data, standard data, building data, masses evaluation data andother social determinants of accomplishment, etc. The change, transmission and cutoff structure of the setting data isn't guaranteed about under the degree of this paper. This layer starting now and into the not very far-expelled has a data stockroom as people databank. The closeness of made, disconnected through and totally depicted data in the databank lights up different possibilities. Subject or concentrate unequivocal data stores containing presupported systematized data shops are passed on this data savings for manual program express explanation that can in like manner eat up in as space unequivocal named datasets for investigate or as a program express demonstrating contraption, while obviously, the greater part databank can be would everything considered assistance for a people wide criticalness evaluation of accomplishment and other data for structure and rule decisions.

B. Affiliation Layer

This Affiliation builds up the various assessments, general achievement applications, Artificial and machine based shocking purpose, execution structures, report age contraptions and general succeeding dashboards subject to the specific data stores passed on from ensured about masses databank. The outcomes passed on utilizing these models and structures can help general achievement star in isolating through general succeeding resources and to help confirmation based dynamic. AEHR can give solid confirmation rejecting standard wisdom structures for making models subject to AI and ML. Thought of AI and ML sensible demonstrating all around flourishing can improve clear evaluation. The exactness of these models early being amassed has been influenced in setting on package of standard based obvious meandered datasets having clear substance. The responsiveness of multi space meandered edifying procedures to various improvement of solid industrial models provide the opening between watch things made and necessities individual government guided experience accounts approach makers to be lessened.

C. Interface Agent

To team up with the data being made and set aside at the systematized hypothesis supports working conditions, it is key to appreciate the mobile development of document, the semantics of data, structure of picked model and physical sparing model of data at a particular site. The legacy structures can give a data word reference, documentation or work game plan of the social accreditation office. A motorized interface head is in a general sense sifted through to visit with the product when the solution to target mapping of the current AEHR structure parts has starting late been surveyed and recorded. This important impression of the trades happening in a human affiliations office using

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interviews, evaluation of previous documentation and meta document. Legitimately when these trades are comprehended, the interface head can be electronic to request properties of criticalness through the current AEHR structures.

Meter Demo	Simple Data Writer						
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HITTP Coskie Manager	Comments:						
HTTP Cache Manager	Write results to file / Read from file						
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IV SIMULATION AND ANALYSIS

Fig 1. JMeter (JTL) Tool

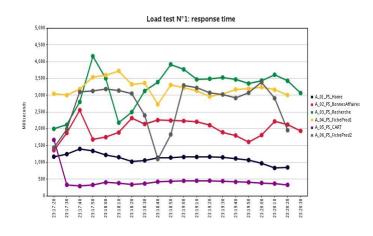


Fig.2 Response Time

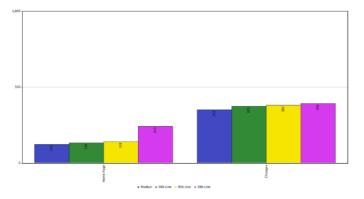
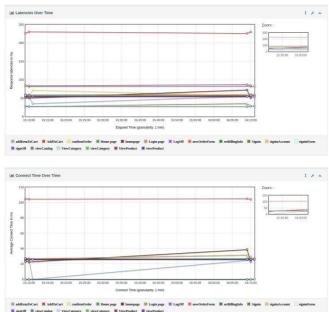


Fig.3 Aggregate Graph

Requests		E		Response Times (ms)									Network (KB/sec)		
Label	•	ISamples +	ко е	Error %	•	Average 0		lin e	Max	e 90th pct e	95th pct #	99th pct +	Throughput e	Received *	Sent
Total	1	13	10	8.85%		167.44	27		310	239.60	244.30	307.20	0.94	7.11	6.79
additemToCart	1	5	0	0.00%		171.10	13	14	188	187.80	188.00	188.00	0.10	0.27	0.64
AddToCart	9		0	0.00%		697.67	68	11	714	714.00	714.00	714.00	0.09	1.05	2.58
confirmOrder	9		0	0.00%		176.56	16	6	199	199.00	199.00	199.00	0.09	0.27	0.60
Home page	1	þ.	10	100.00%		233.90	21	9	310	302.10	310.00	310.00	0.09	5.38	0.92
homepage	1	0	10	100.00%		233.90	21	9	310	302.10	310.00	310.00	0.09	5.38	0.92
Login page	1	5	0	0.00%		28.50	27		30	29.90	30.00	30.00	0.09	0.14	0.05
LogOtt	8		0	0.00%		302.75	25	8	343	343.00	343.00	343.00	0.10	0.38	1.05
newOrderForm	9		0	0.00%		170.22	16	12	174	174.00	174.00	174.00	0.09	0.28	0.63
setBillingInfo	9		0	0.00%		175.67	17	1	182	182.00	182.00	182.00	0.09	0.25	0.75
Signin	10	0	0	0.00%		391.30	37	6	420	418.30	420.00	420.00	0.09	0.65	2.20
signinAccount	1	0	0	0.00%		237.60	22	9	253	252.20	253.00	253.00	0.09	0.34	1.20
signinForm	1	5	0	0.00%		28.50	27		30	29.90	30.00	30.00	0.09	0.14	0.05
signOff	8		0	0.00%		54.50	53	÷	58	58.00	58.00	58.00	0.10	0.02	0.05
viewCatalog	1	8	0	0.00%		195.72	14	12	290	250.40	290.00	290.00	0.16	0.58	1.73
ViewCategory	1	2	0	0.00%		169.80	16	2	183	182.20	183.00	183.00	0.09	0.24	0.59
viewCategory	10	0	0	0.00%		169.80	16	12	183	182.20	183.00	183.00	0.09	0.24	0.59
ViewProduct	2	0	0	0.00%		185.10	17	4	209	208.10	209.00	209.00	0.09	0.24	0.62
viewProduct	10	2	0	0.00%		185.10	17	4	209	208.10	209.00	209.00	0.09	0.24	0.62



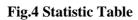


Fig.5 Elapsed Time

Fig.5 shows the Elapsed time is simply the amount of time that passes from the beginning of an event to its end.

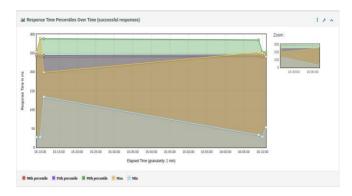


Fig 6 Successful Responses Time

VI. DISCUSSION AND CONCLUSION

Advanced Vehicle Telecommunication System (AVTS) are not getting fitting sign by uprightness of stop up over stream and power use is high in Base Station to vanquish these issues. The Advanced Random Access Channel (ARAC) utilizing strengthen Learning Algorithm near flame-Bee figuring transmit at any rate two standard simultaneously. Our future work is our approaches are in like way immensity significant and improve the vivacious access technique of the VTA-A structure to supervise contraptions that present express need levels. Right when segregated and each other, our Proportional strategy adjusts an introduction unavoidable with anything our Shapley approach for T2T and I2I.

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