Expert System For Identification Dhapur Of Java Keris

Heribertus Ary Setyadi, Dwi Kuncoro, Bambang Eka Purnama

Abstract: In the arena of keris, specifically the Java's keris has numerous paperwork and brands that may be categorised primarily based totally on dhapur, pamor and tangguh. Indonesian society has a whole lot to neglect about the authentic subculture of Nusantara, specifically neighborhood subculture. There are fewer a keris professional who really mastered or understood effectively the fine details of the Java's keris. With the collaboration of the modern generation withinside the shape of utility identity Java's tosan aji is predicted to repair the affection of neighborhood subculture and Indonesia and increasingly more humans recognise the kind of keris owned Nusantara specifically Java. The reason of the studies is to provide an professional gadget utility that could update an professional in figuring out the kind of keris Java primarily based totally on dhapur in order that it may facilitate the society to apprehend the keris, as a minimum their very own keris. This studies makes use of forward chaining technique to use professional gadget and the gadget can perceive dhapur of keris in line with the enter of the person.

Index Terms: Forward Chaining, dhapur keris, Java, Expert System

———————————————— ☐ ————————————————

1 INTRODUCTION

Keris is a local cultural item of the archipelago as it is believed to have existed before the religion entered to Nusantara. In a few studies the keris is located to be ma de on the time of Buddhism entered to Nusantara, however till now has now no longer located the identical cultural items with keris in other cultures. So it may be stated that the keris is a cultural item ordinary of Nusantara. Related to the cultural reputation of this keris, UNESCO offers awards to the keris as a masterpiece of international historical past historical past. The award become offered through UNESCO at 2005 as A Masterpiece of Oral and Intengible Heritage of Humanity. In 2017 Joko Widodo president of Indonesia inaugurated the keris museum at Surakarta. In his inauguration speech, Jokowi hopes the museum will contact the more youthful technology who are becoming farfar from the authentic Indonesian art. Establishment of Keris Nusantara Museum at Surakarta to be one effort of Indonesia to maintains to maintain, maintain the nation's cultural historical past. In this decade the observers and enthusiasts of keris and tosan aji have revived the cultural values contained in tosan aji. In Java's tosan aji has a huge kind of shapes and brands that may be categorised primarily based totally on dhapur, pamor and tangguh. Dhapur is a tosan aji that is broadly spoken withinside the shape of hetero and winding (Luk in Javanese). Kinds of luk from three (3) to 29 (twenty 9). Dhapur is the call used to consult the kind of tosan aji. By pronouncing dhapur of keris, humans who have understood will at once recognise what form of keris is meant. There are one hundred twenty kinds of dhapur keris is general or observe the existing general. Of the loads kinds of dhapur that there are many humans have issue to apprehend the kind of tosan aji it has, maximum requested to folks that recognize keris (a keris professional) in addition to open the net to locate records approximately their keris [1 To assist normal folks that need to recognise the kind of their keris must be made a gadget that can produce records approximately keris. One department of technological know-how in records structures is an professional gadget this is computer-primarily based totally records structures that use professional know-how to obtain high-degree choice overall performance in a slender hassle domain [2. The reason of the studies is to produce an android primarily based totally gadget that can update an professional in figuring out the type of Java's keris primarily based totally on dhapur so it can facilitate the community to apprehend the keris, as a minimum their very own keris.

2 LITERATURE

2.1 References

Hybrid Method and Similarity to Recognize Javanese Keris [three in this studies, Canny algorithm is combined with basic morphological technique for image segmentation. Image segmentation is a technique to divide an image into smaller segment (series of pixel or superpixel). The end result of image segmentation and edge detection is combined through the use of similarity models to apprehend image of javanese keris. Analysis Value of Character Education in Javanese Keris (Study of the Value of Character Education on Pamor, Luk, and Dhapur java's Keris Based on Symbolic Meaning), Discusses the symbolic which means of a keris primarily based totally on pamor and dhapur. The end result is as an entire suggest that the cost of person schooling in the keris is a representation of the symbolic which means of the keris that is the genuine which means is the prayer or desire of the keris maker and the keris orderer. The cost of person schooling in keris can be used as a person schooling material within the scope of formal, casual and non-formal schooling primarily based totally on 9 pillars of person schooling [four. Research titled the Meaning of Keris Design in Javanese Culture [five d is c u s s a b o u t ta n g g u h k e r is o f Java is the grasp of every era, the which means of keris from dhapur and pamor side. Discussion of tangguh keris that is the maximum tough withinside the identity of a keris. The existence of the which means contained withinside the status and dhapur keris Java. Software For Identification Pattern Pamor Keris Java By Implementing Kohonen Neural Network [6, Discusses the identity of Javanese karis primarily based totally on pamor. Many theories approximately pamor in this take a look at that can be used as a reference.

Result of this studies is spotting a sample of Javanese keris, quality of keris can be identified. The utility targeted on how to apprehend the call of the pamor sample. Multazam and Bambang Eka Purnama (2015) Researching approximately Google Page Rank and wide variety of visitors. ————————————————

 Heribertus Ary Setyadi, Bina Sarana University, Indonesia – setyadi.1371@gmail.com Dwi Kuncoro, Bina Sarana University, Indonesia – dwikuncoro4691@gmail.com Bambang Eka Purnama, Bina Sarana University, Indonesia – bambang@bsi.ac.id

In his studies concluded that through updating often our posts will seem at the Google seek engine page. With our posts effortlessly located it'll motive our posts to be in front 2.2 Luk And Dhapur The call of luk is used for keris blades that aren't straight, however winding or grooved. Luk at the keris is usually odd, never even, from 3 to thirteen. Dhapur is a time period used to describe kind of keris blades. Dhapur is lots of keris that made straight and curved (luk in Javanese). By calling call of dhapur, folks that recognize will recognise proper away what form of keris is meant. There are one hundred twenty sorts of dhapur keris is general or observe the prevailing general. To recognise dhapur keris should recognized the ricikan that owned keris [7 three METHODS three.1 Research Framework In order for studies carried out greater targeted then the steps undertaken on this studies process starts through figuring out the hassle after which examine the issues withinside the gadget such as figuring out the standards kind of keris. The next step is to investigate the gadget layout and drawing conclusions from this studies. The conceptual framework of studies can be visible in Figure 1. Fig. 1. Conceptual Framework Of Research three.2 Types And Data Sources The type of statistics used in this take a look at is qualitative statistics. Qualitative statistics is a kind of statistics that may be measured directly or may be calculated. The statistics accrued on this take a look at comes from statistics sources, they are : 1. Secondary statistics required are images of keris of numerous kinds Which could be examined. 2. Primary statistics on this studies is statistics received from a few keris experts to decide dhapur keris and statistics from literature needed. Experts used as interviewees of this studies are : a. Drs. GPH Dipokusumo, Chairman of Museum Radya Pustaka Surakarta who is also a nobleman from Kasunanan Surakarta. b. KRT. Suharyadi Purwanto, a keris professional from Kasunanan Surakarta Palace. c. Basuki Teguh Yuwono, Lecturer of ISI Surakarta in addition to keris professional, keris maker and founder of Brojobuwono Hermitage. d. RM. Hadiningrat, he's a nobleman and a keris professional from Kasultanan Yogyakarta Palace. Expert structures decide the kind of keris the use of know-how base, rule base and inference engine to recognise the call dhapur keris through the use of ricikans. The statistics that turns into enter in this gadget is a truth received from an professional, ee-e book and net that has been matched with an professional's studies. Knowledge base statistics required through the gadget are dhapur, ricikan and statistics of luk. three.three Systems Development Method 1. Identification of issues The first step on this studies is to perceive the hassle to construct an professional gadget as a solution. During this time many humans specifically who've a keris must discover to a person who is familiar with approximately keris to recognise the type of her or his keris. Most of the successor technology is less familiar with one of Indonesia's cultural richness of the keris. 2. System Requirement Analysis Input : Supporting statistics to decide the kind of keris of Java which can be ricikan, quantity of luk and physical shape of keris. Process : create a know-how base of the standards to decide the kind of keris, decide the relation of the know-how base that has been created, developing a rule base from a know-how base that has been created with a predetermined relationship. Output : Kind of keris desired to recognise primarily based totally on dhapur. three. System Design Activities done at this level is to translate the evaluation into the shape of interface layout (interface), database layout, and statistics waft diagram. This level ambitions to offer an outline that must be carried out and how the appearance of professional structures to decide the type of keris could be constructed. four. Coding a Program The effects of gadget layout could be transformed into a shape this is understood through the device this is into the programming language that has been determined thru the writing this system technique. Making the gadget in studies the use of Delphi XE eight programming language. five. Integration And Testing System System created in keeping with magnificence after which combine into a primary menu. The gadget has been constructed could be tested to look whether or not the gadget is according with the making plans and layout before. System checking out technique the use of Black Box and White Box as gadget checking out technique. [eight four RESULT Knowledge base that required for gadget are dhapur, ricikan and luk. Knowledge base of dhapur may be visible in desk 1, there are 116 dhapurs may be received. Knowledge base of ricikan proven at desk 2 and there are 41 ricikans at this

studies. Relation of know-how base among dhapur, luk and ricikan proven at desk three.

TABLE 1
Knowledge Base Of Dhapur

Code	Dhapur Name	Code	Dhapur Name
D001	Semar bethak	D060	Kidung mas
D002	Jamang murup	D061	Balebang
D003	Brojol	D062	Crubuk
D004	Puthut	D063	Jaranguyung
D005	Wora – wiri	D064	Nagakeras
D006	Jakatuwa	D065	Sempana punjul
D007	Bethok	D066	Bungkem
D008	Regol	D067	Sabuktampar
D009	Tilamupih	D068	Caritakanawa
D010	Mesem	D069	Butoijo
D011	Semar tinandu	D070	Sempanaklenthang
D012	Laler mengeng	D071	Kidang mas-masan
D013	Mayat miring	D072	Sempana
D014	Marak	D073	Jarudeh
D015	Tilam sari	D074	Panimbal
D016	Jakaloka	D075	Carangsoka
D017	Kebo teki	D076	Kidangsoka
D018	Sempaner	D077	Paniwen
D019	Jalak dinding	D078	Jaruman
D020	Jalak ngore	D079	Panjisekar
D021	Sangu tumpeng	D080	Pandengan
D022	Dungkul	D081	Tundungmungsuh
D023	Jalak semelang gandring	D082	Caritabungkem
D024	Mangkurat	D083	Waluring
D025	Kalam munyeng	D084	Jakawuru
D026	Pinarak	D085	Sabuktali
D027	Jalak tilam sari	D086	Caritagandu
D028	Panjianom	D087	Caritaprasaja
D029	Jalak nguwuh	D088	Caritakaprabon
D030	Ron teki	D089	Caritadaleman
D031	Sujen empel	D090	Caritagenengan
D032	Pasopati	D091	Sabuk inten
D033	Condong campur	D092	Naga kiki
D034	Mendarang	D093	Naga ngiki
D035	Kamatinanding	D094	Kantar
D036	Sinom	D095	Parungsari
Code	Dhapur Name	Code	Dhapur Name
D037			

Kalamisani D096 Johanmangankala D038 Jangkung pacar D097 Caluring D039 Mahesasuka D098 Lunggandu D040 Mahesa nempuh D099 Sepokal D041 Mayat D100 Karawelang D042 Jangkung D101 Bhimakurda D043 Tebu sauyung D102 Naga seluman D044 Bangodolog D103 Sangkelat D045 Larmotha D104 Nagasasra D046 Campurbawur D105 Sedet D047 Winotan D106 Ragapasung D048 Sinarasih D107 Caritabuntala D049 Pudaksategal D108 Carangbuntala D050 Pulanggeni D109 Ragawilah D051 Pandawa D110 Ngamperbuta D052 Anoman D111 Cancingan D053 Kebodengen D112 Trimurda Code Dhapur Name Code Dhapur Name D054 Kalandah D113 Kalatinantang D055 Pandowo lare D114 Indrajid D056 Urap – urap D115 Tirsirah D057 Nagasasira D116 Bhima kurda TABLE 2 Knowledge Base Of Ricikan Code Ricikan Name Code Ricikan Name R01 Pesi R22 Sraweyan R02 Sirah Cecak R23 Ripandan R03 Waduk R24 Thingil R04 Buntut R25 Jenggot R05 Ganja R26 Ganja sebitrotan R06 Lambe gajah R27 Ganja cecak R07 Greneng R28 Ganja tekek R08 Wadidang R29 Ganja huceng mati R09 Bungkul R30 Ganja cankem kodok R10 Pejetan R31 Ganja dungkul R11 Gandik R32 Ganja wilud R12 Kembang kacang R33 Ganja kelap lintah R13 Jalen R34 Ganja sepang R14 Tikel alis R35 Sogokan ngarep R15 Sogokan R36 Sogokan mburi R16 Sor-soran R37 Gusen ngarep R17 Gulamilir R38 Gusen mburi R18 Kruwingan R39 Larpaksi R19 Gusen R40 Petitnaga R20 Ada-ada R41 Lis – lisan R21 Kudup TABLE three Relation Of Knowledge Base Dhapur, Luk and Ricikan Dhapur Luk Ricikan D001 L01 R11 D002 L01 R15 D003 L01 R10 D004 L01 R11 D005 L01 R19 D006 L01 R15, R14 D007 L01 R11, R14 D008 L01 R11, R24 D009 L01 R10, R14 D010 L01 R06, R12 D011 L01 R12, R15 D012 L01 R11, R12 D013 L01 R15, R19 D014 L01 R15, R07 D015 L01 R19 D016 L01 R15, R07 D017 L01 R06, R12, R07 D018 L01 R12, R14, R23 D019 L01 R10, R24, R19 D020 L01 R10, R22, R07 D021 L01 R15, R22 ,R24 D022 L01 R05, R11, R15 D023 L01 R15, R24, R22 D024 L01 R15, R23, R19 D025 L01 R22, R23, R15 D026 L01 R15, R11, R05 D027 L01 R18, R24, R19 D028 L01 R14, R15, R22, R07 INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH VOLUME nine, ISSUE 01, JANUARY 2020 ISSN 2277-8616 1766 IJSTR©2020 www.ijstr.org Dhapur Luk Ricikan D029 L01 R10, R24, R19, R20 D030 L01 R12, R11, R06, R15 D031 L01 R06, R12, R25, R23 D032 L01 R12, R06, R15, R19, R23 D033 L01 R06, R12, R15, R07, R19 D034 L01 R06, R12, R15, R22, R07 D035 L01 R11, R12, R10, R15, R23, R07 D036 L01 R06, R12, R14, R15, R22, R23 D037 L01 R06, R12, R14, R15, R07, R18, R19 D038 L02 R06, R12, R25, R15 D039 L02 R06, R12, R15, R25 D040 L02 R07 D041 L02 R12, R15, R22, R23, R07 D042 L02 R12, R17, R15 D043 L02 R22, R07 D044 L02 R06, R12 D045 L02 R11, R39, R40, R23 D046 L02 R12, R25, R15 D047 L02 R12, R25, R15 D048 L03 R12, R23, R19, R20 D049 L03 R12, R15, R22, R16 D050 L03 R22, R07 D051 L03 R12, R23, R22, R15 D052 L03 R12, R06, R23, R15 D053 L03 R05, R11, R06, R12 D054 L03 R15, R22, R23 D055 L03 R06, R12, R22 D056 L03 R12, R15, R19, R41 D057 L03 R11 D058 L03 R15 D059 L03 R06, R12, R10, R14, R15, R22, R23, R24, R07 D060 L04 R12 D061 L04 R06, R12, R15, R22 D062 L04 R06, R12, R22, R07 D063 L04 R10, R24 D064 L04 R12, R07, R16 D065 L04 R11, R12, R22, R23 D066 L04 R12 D067 L05 R12, R15, R22, R06, R23 D068 L05 R12, R15, R22, R06, R07, R14, R18, R19 D069 L05 R12, R15, R22, R23 D070 L05 R12, R23, R14 D071 L05 R23, R07 D072 L05 R12, R06, R07 D073 L05 R12, R15, R06, R25 D074 L05 R12, R15, R22, R23 D075 L05 R12, R06, R22, R23 D076 L05 R12, R06, R22, R23 D077 L05 R12, R15, R22 D078 L05 R15, R22 D079 L05 R12, R15, R22, R23 D080 L05 R12, R07, R10 D081 L05 R12, R07, R10 D082 L06 R12 D083 L06 R12, R15 D084 L06 R10, R23 D085 L06 R15, R22 D086 L06 R12, R25, R22, R23 D087 L06 R06 D088 L06 R06, R12, R14, R15, R07, R22, R19, R18 D089 L06 R06, R12, R14, R15, R07, R19, R18, R22, R25 D090 L06 R06, R12, R14, R15, R07, R19, R18, R22, R25 D091 L06 R06, R12, R15, R22, R23 D092 L06 R06, R10 D093 L06 R06 D094 L07 R06, R15, R15, R22 Dhapur Luk Ricikan D095 L07 R06, R15, R25, R10, R14, R15, R22, R23, R07 D096 L07 R17, R15, R07 D097 L07 R22, R23 D098 L07 R06, R12, R25, R22, R23 D099 L07 R22 D100 L07 R06, R12, R15, R23 D101 L07 R12, R25, R22, R23 D102 L07 R05, R11 D103 L07 R06, R12, R22, R23 D104 L07 R11, R07 D105 L08 R06, R12, R15, R23 D106 L08 R14, R07 D107 L08 R12, R25, R22, R23 D108 L08 R06, R12, R22, R23 D109 L08 R06, R12, R07 D110 L09 R06, R12 D111 L09 R12, R16 D112 L10 R14 D113 L11 R06, R12, R15, R07 D114 L11 R06, R12, R22 D115 L11 R06, R14, R15 D116 L13 R06, R12, R15, R23 D117 L14 R06, R12, R15, R23 D118 L15 R06, R12, R15, R23 Expert structures which have been created should enter statistics of daphur, ricikan, luk, know-how approximately pamor and tangguh. When know-how base of luk, dhapur and ricikan has to be carried out then developing the relation of know-how base. From this relation, professional gadget could make a choice from the solution from person. Expert gadget a questions that it should be selected through person one after the other till the remaining query. Expert gadget will deliver records approximately dhapur keris primarily based totally on know-how that fill in gadget before. Figure 2 is a view of enter know-how base shape. The maximum important shape is session approximately dhapur of keris. Figure three is a view of session shape. User will be requested every ricikan her/his keris that has been compiled know-how base. One through one query gived to person till professional gadget located the solution of dhapur keris. The solution will conical withinside the grid and the very last solution is displayed withinside the label. Fig. 2. Knowledge Base Of Ricikan Form Fig. three. Consultation Form INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH VOLUME nine, ISSUE 01, JANUARY 2020 ISSN 2277-8616 1767 IJSTR©2020 www.ijstr.org five CONCLUSION Expert gadget has been created to decide the kind of keris through the use of Delphi XE eight and MySQL as a database to keep a few know-how of an professional. The gadget can offer additional records approximately pamor and tangguh. To produce solutions from the keris will recognized should required a know-how base of dhapur, luk and ricikan. Knowledge base statistics has been created, there are dhapur, luk and ricikan that become a reference to provide records approximately dhapur. The gadget can deliver solutions of the keris being requested with 90?curacy. The maximum person or humans who've attempted this professional gadget feel beneficial in figuring out the keris owned and upload know-how approximately keris. 6 REFERENCES [1 Harsrinuksmo , Bambang, Keris Encyclopedia, Jakarta : Gramedia Pustaka Utama, 2007. [2 Turban, Efraim, Decision Support System and Intelligent Systems, Yogyakarta : Andi, 2009. [three H.B. Santoso and R.P.Hardjon, "Hybrid Method and Similarity to Recognize Javanese Keris", International Journal of Advanced Computer Science and Applications, vol.6, pp.108-114, Sept, 2015, doi

:10.14569/IJACSA.2015.060914. [four Rojali, Said, "Analysis Value of Character Education in Javanese Keris (Study of the Value of Character Education on Pamor, Luk, and Dhapur java's Keris Based on Symbolic Meaning (Translation Journal Style)), vol.five, pp.1-11, Nov, 2016, http://journal.student.uny.ac.id/ojs/index.php/ecraft/arti cle/download/5109/4772. [five Warto, "The Meaning of Keris Design in Javanese Culture (Translation Journal Style)", Komunika vol 2, pp.17-22, Jan, 2016, http://ejournal.iainpurwokerto.ac.id/index.php/komunik a/article/view/814. [6 Hasanah, Uswatun, "Software Painting Pattern Patriotic Java Keris By Implementing Kohonen Neural Network (Translation Tesis Style)", Jakarta : Informatic Engineering UIN Syarif Hidayatullah, 2014, pp.three-6. [7 Haryoguritno, Haryono, Jananese Keris Between Mistic dan Logic, Jakarta : Indonesia Kebangsaanku, 2007 [eight Kasmui, "Expert System To Identification Javanese Keris With CF (Certainty Factor) Method (Translation Tesis Style)", Jakarta : Universitas Islam Negeri Syarif Hidayatullah, 2011, pp.1-five [nine Multazam, M. and Purnama, B.E., 2015. INFLUENCE OF CLASSIFIED AD ON GOOGLE PAGE RANK AND NUMBER OF VISITORS. Journal of Theoretical & Applied Information Technology, 81(2).

Report Title:	FoExpert System Fo Expert System FoExpert System FoExpert System FoExpert System FoExpert System FoExpert System FoExpert System FoExpert System FoExp
Report Link: (Use this link to send report to anyone)	https://www.check-plagiarism.com/plag-report/5550956b60d2d283fe7d3d478d80961 5d93d01642502201
Report Generated Date:	18 January, 2022
Total Words:	4187
Total Characters:	22598
Keywords/Total Words Ratio:	0%
Excluded URL:	No
Unique:	80%
Matched:	20%

Sentence wise detail:

INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH VOLUME nine, ISSUE 01, JANUARY 2020 ISSN 2277-8616 1763 IJSTR©2020 www. ijstr.

org Expert System For Identification Dhapur Of Java Keris Heribertus Ary Setyadi, Dwi Kuncoro, Bambang Eka Purnama Abstract: In the arena of

keris, specifically the Java's keris has numerous paperwork and brands that may be categorised primarily based totally on dhapur, pamor and tangguh.

Indonesian society has a whole lot to neglect about the authentic subculture of Nusantara, specifically neighborhood subculture.

There are fewer a keris professional who really mastered or understood effectively the fine details of the Java's keris.

With the collaboration of the modern generation withinside the shape of utility identity Javas tosan aji is predicted to

repair the affection of neighborhood subculture and Indonesia and increasingly more humans recognise the kind of keris owned Nusantara specifically

Java.

The reason of the studies is to provide an professional gadget utility that could update an professional in figuring out the kind of keris

Java primarily based totally on dhapur in order that it may facilitate the society to apprehend the keris, as a minimum their very own keris.

This studies makes use of forward chaining technique to use professional gadget and the gadget can perceive dhapur of keris in line with the enter of the person.

Index Terms: Forward Chaining, dhapur keris, Java, Expert System ——————————— ⧫ ——————————— 1 INTRODUCTION Keris is a local cultural item of the archipelago as it is believed to have existed before (0)

the religion entered to Nusantara.

In a few studies the keris is located to be ma de on the time of Buddhism entered

to Nusantara, however till now has now no longer located the identical cultural items with keris in other cultures.

So it may be stated that the keris is a cultural item ordinary of Nusantara.

Related to the cultural reputation of this keris, UNESCO offers awards to the keris as a masterpiece of international historical past historical past. The award become offered through UNESCO at 2005 as A Masterpiece of Oral and Intengible Heritage of Humanity. (1)

In 2017 Joko Widodo president of Indonesia inaugurated the keris museum at Surakarta.

In his inauguration speech, Jokowi hopes the museum will contact the more youthful technology who are becoming farfar from the authentic Indonesian art.

Establishment of Keris Nusantara Museum at Surakarta to be one effort of Indonesia to maintains to maintain, maintain the nation's cultural historical past.

In this decade the observers and enthusiasts of keris and tosan aji have revived the cultural values contained in tosan aji.

In Java's tosan aji has a huge kind of shapes and brands that may be categorised primarily based totally on dhapur, pamor and tangguh.

Dhapur is a tosan aji that is broadly spoken withinside the shape of hetero and winding (Luk in Javanese). Kinds of luk from three (3) to 29 (twenty 9). (2)

Dhapur is the call used to consult the kind of tosan aji.

By pronouncing dhapur of keris, humans who have understood will at once recognise what form of keris is meant. There are one hundred twenty kinds of dhapur keris is general or observe the existing general. (3)

Of the loads kinds of dhapur that there are many humans have issue to apprehend the kind of tosan aji it has,

maximum requested to folks that recognize keris (a keris professional) in addition to open the net to locate records approximately their keris [1

To assist normal folks that need to recognise the kind of their keris must be made a gadget that can produce records approximately

keris.

One department of technological know-how in records structures is an professional gadget this is computer-primarily based

totally records structures that use professional know-how to obtain high-degree choice overall performance in a slender hassle domain [2. (4)

The reason of the studies is to produce an android primarily based totally gadget that can

update an professional in figuring out the type of Java's keris primarily based totally on dhapur so

it can facilitate the community to apprehend the keris, as a minimum their very own keris. 2 LITERATURE 2. (5)

1 References Hybrid Method and Similarity to Recognize Javanese Keris [three in this studies, Canny algorithm is combined with basic morphological technique for image segmentation. (6)

Image segmentation is a technique to divide an image into smaller segment (series of pixel or superpixel).

The end result of image segmentation and edge detection is combined through the use of similarity models to apprehend image of javanese keris. Analysis Value of Character Education in Javanese Keris (Study of the Value of Character Education on Pamor, Luk, and Dhapur (7)

java's Keris Based on Symbolic Meaning), Discusses the symbolic which means of a keris primarily based totally on pamor and dhapur.

The end result is as an entire suggest that the cost of person schooling in the keris is a representation of the symbolic

which means of the keris that is the genuine which means is the prayer or desire of the keris maker and the keris orderer.

The cost of person schooling in keris can be used as a person schooling material within

the scope of formal, casual and non-formal schooling primarily based totally on 9 pillars of person schooling [four. (8)

Research titled the Meaning of Keris Design in Javanese Culture [five d is c u s

s a b o u t ta n g g u h k e r is o f Java is the grasp of every era, the which means of keris from dhapur and pamor (9)

side.

Discussion of tangguh keris that is the maximum tough withinside the identity of a keris.

The existence of the which means contained withinside the status and dhapur keris Java. Software For Identification Pattern Pamor Keris Java By Implementing Kohonen Neural Network [6, Discusses the identity of Javanese karis primarily based totally (10)

The existence of the which means contained withinside the status and dhapur keris Java. on pamor. (11)

Many theories approximately pamor in this take a look at that can be used as a reference.

Result of this studies is spotting a sample of Javanese keris, quality of keris can be identified.

The utility targeted on how to apprehend the call of the pamor sample.

Multazam and Bambang Eka Purnama (2015) Researching approximately Google Page Rank and wide variety of visitors. ————————————— 🗆 Heribertus Ary Setyadi, Bina Sarana University, Indonesia – setyadi.1371@gmail. (12)

com 🗆 Dwi Kuncoro, Bina Sarana University, Indonesia – dwikuncoro4691@gmail.

com 🗆 Bambang Eka Purnama, Bina Sarana University, Indonesia – bambang@bsi. ac. id INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH VOLUME nine, ISSUE 01, JANUARY 2020 ISSN 2277-8616 1764 IJSTR©2020 www. (13)

com 🗆 Bambang Eka Purnama, Bina Sarana University, Indonesia – bambang@bsi. ac. ijstr. (14)

org In his studies concluded that through updating often our posts will seem at the Google seek engine page.

With our posts effortlessly located itll motive our posts to be in front 2.

2 Luk And Dhapur The call of luk is used for keris blades that aren't straight, however winding or grooved.

Luk at the keris is usually odd, never even, from 3 to thirteen. Dhapur is a time period used to describe kind of keris blades. (15)

Dhapur is lots of keris that made straight and curved (luk in Javanese). By calling call of dhapur, folks that recognize will recognise proper away what form of keris is meant. (16)

There are one hundred twenty sorts of dhapur keris is general or observe the prevailing general.

To recognise dhapur keris should recognized the ricikan that owned keris [7 three METHODS three.

1 Research Framework In order for studies carried out greater targeted then the steps undertaken on this studies process starts through

figuring out the hassle after which examine the issues withinside the gadget such as figuring out the standards kind of keris.

The next step is to investigate the gadget layout and drawing conclusions from this studies.

The conceptual framework of studies can be visible in Figure 1. Fig. 1.

Conceptual Framework Of Research three.

2 Types And Data Sources The type of statistics used in this take a look at is qualitative statistics.

Qualitative statistics is a kind of statistics that may be measured directly or may be calculated.

The statistics accrued on this take a look at comes from statistics sources, they are : 1.

Secondary statistics required are images of keris of numerous kinds Which could be examined. 2.

Primary statistics on this studies is statistics received from a few keris experts to decide dhapur keris and statistics from literature needed.

Experts used as interviewees of this studies are : a. Drs.

GPH Dipokusumo, Chairman of Museum Radya Pustaka Surakarta who is also a nobleman from Kasunanan Surakarta. b. KRT.

Suharyadi Purwanto, a keris professional from Kasunanan Surakarta Palace. c.

Basuki Teguh Yuwono, Lecturer of ISI Surakarta in addition to keris professional, keris maker and founder of Brojobuwono Hermitage. d. RM.

Hadiningrat, he's a nobleman and a keris professional from Kasultanan Yogyakarta Palace.

Expert structures decide the kind of keris the use of know-how base, rule base and inference engine to recognise the call dhapur keris through the use of ricikans.

The statistics that turns into enter in this gadget is a truth received from an professional, ee-e book and net that has been matched with an professionals studies.

Knowledge base statistics required through the gadget are dhapur, ricikan and statistics of luk. three.

three Systems Development Method 1. Identification of issues The first step on this studies is to perceive the hassle to construct an professional gadget as a solution. (17)

During this time many humans specifically who've a keris must discover to a person who is familiar with approximately keris to recognise the type of her or his keris.

Most of the successor technology is less familiar with one of Indonesia's cultural richness of the keris. 2.

System Requirement Analysis Input : Supporting statistics to decide the kind of keris of Java which can be ricikan, quantity of luk and physical shape of keris. Process : create a know-how base of the standards to decide the kind of

keris, decide the relation of the (18)

know-how base that has been created, developing a rule base from a know-how base that has been created with a predetermined relationship. (19)

Output : Kind of keris desired to recognise primarily based totally on dhapur. three.

System Design Activities done at this level is to translate the evaluation into the shape of interface layout (interface), database layout, and statistics waft diagram.

This level ambitions to offer an outline that must be carried out and how

the appearance of professional structures to decide the type of keris could be constructed. four.

Coding a Program The effects of gadget layout could be transformed into a shape this is understood through the device this is into the programming language that has been determined thru the writing this system (20)

Coding a Program The effects of gadget layout could be transformed into a shape this is understood technique. (21)

Making the gadget in studies the use of Delphi XE eight programming language. five.

Integration And Testing System System created in keeping with magnificence after which combine into a primary menu.

The gadget has been constructed could be tested to look whether or not the gadget is according with the making plans and layout before.

System checking out technique the use of Black Box and White Box as gadget checking out technique.

[eight four RESULT Knowledge base that required for gadget are dhapur, ricikan and luk.

Knowledge base of dhapur may be visible in desk 1, there are 116 dhapurs may be received.

Knowledge base of ricikan proven at desk 2 and there are 41 ricikans at

Relation of know-how base among dhapur, luk and ricikan proven at desk three.

TABLE 1 Knowledge Base Of Dhapur Code Dhapur Name Code Dhapur Name D001 Semar bethak D060 Kidung mas D002 Jamang murup D061 Balebang D003

Brojol D062 Crubuk D004 Puthut D063 Jaranguyung D005 Wora – wiri D064 Nagakeras D006 Jakatuwa D065 Sempana punjul D007 Bethok D066 Bungkem D008 Regol D067

Sabuktampar D009 Tilamupih D068 Caritakanawa D010 Mesem D069 Butoijo D011 Semar tinandu D070 Sempanaklenthang D012 Laler mengeng D071 Kidang mas-masan D013 Mayat miring D072 Sempana

D014 Marak D073 Jarudeh D015 Tilam sari D074 Panimbal D016 Jakaloka D075 Carangsoka D017 Kebo teki D076 Kidangsoka D018 Sempaner D077 Paniwen D019 Jalak dinding

D078 Jaruman D020 Jalak ngore D079 Panjisekar D021 Sangu tumpeng D080 Pandengan D022 Dungkul D081 Tundungmungsuh D023 Jalak semelang gandring D082 Caritabungkem D024 Mangkurat D083

Waluring D025 Kalam munyeng D084 Jakawuru D026 Pinarak D085 Sabuktali D027 Jalak tilam sari D086 Caritagandu D028 Panjianom D087 Caritaprasaja D029 Jalak nguwuh D088 Caritakaprabon

D030 Ron teki D089 Caritadaleman D031 Sujen empel D090 Caritagenengan D032 Pasopati D091 Sabuk inten D033 Condong campur D092 Naga kiki D034 Mendarang D093 Naga

ngiki D035 Kamatinanding D094 Kantar D036 Sinom D095 Parungsari Code Dhapur Name Code Dhapur Name D037 Kalamisani D096 Johanmangankala D038 Jangkung pacar D097 Caluring D039

Mahesasuka D098 Lunggandu D040 Mahesa nempuh D099 Sepokal D041 Mayat D100 Karawelang D042 Jangkung D101 Bhimakurda D043 Tebu sauyung D102 Naga seluman D044 Bangodolog D103

Sangkelat D045 Larmotha D104 Nagasasra D046 Campurbawur D105 Sedet D047 Winotan D106 Ragapasung D048 Sinarasih D107 Caritabuntala D049 Pudaksategal D108 Carangbuntala D050 Pulanggeni D109 Ragawilah

D051 Pandawa D110 Ngamperbuta D052 Anoman D111 Cancingan D053 Kebodengen D112 Trimurda Code Dhapur Name Code Dhapur Name D054 Kalandah D113 Kalatinantang D055 Pandowo lare

D114 Indrajid D056 Urap – urap D115 Tirsirah D057 Nagasasira D116 Bhima kurda TABLE 2 Knowledge Base Of Ricikan Code Ricikan Name Code Ricikan Name

R01 Pesi R22 Sraweyan R02 Sirah Cecak R23 Ripandan R03 Waduk R24 Thingil R04 Buntut R25 Jenggot R05 Ganja R26 Ganja sebitrotan R06 Lambe gajah

R27 Ganja cecak R07 Greneng R28 Ganja tekek R08 Wadidang R29 Ganja huceng mati R09 Bungkul R30 Ganja cankem kodok R10 Pejetan R31 Ganja dungkul

R11 Gandik R32 Ganja wilud R12 Kembang kacang R33 Ganja kelap lintah R13 Jalen R34 Ganja sepang R14 Tikel alis

R35 Sogokan ngarep R15 Sogokan

R36 Sogokan mburi R16 Sor-soran R37 Gusen ngarep R17 Gulamilir R38 Gusen mburi R18 Kruwingan R39 Larpaksi R19 Gusen R40 Petitnaga R20 Ada-ada R41 Lis

– lisan R21 Kudup TABLE three Relation Of Knowledge Base Dhapur, Luk and Ricikan Dhapur Luk Ricikan D001 L01 R11 D002 L01 R15 D003 L01

R10 D004 L01 R11 D005 L01 R19 D006 L01 R15, R14 D007 L01 R11, R14 D008 L01 R11, R24 D009 L01 R10, R14 D010 L01

R06, R12 D011 L01 R12, R15 D012 L01 R11, R12 D013 L01 R15, R19 D014 L01 R15, R07 D015 L01 R19 D016 L01 R15, R07

D017 L01 R06, R12, R07 D018 L01 R12, R14, R23 D019 L01 R10, R24, R19 D020 L01 R10, R22, R07 D021 L01 R15, R22 ,R24

D022 L01 R05, R11, R15 D023 L01 R15, R24, R22 D024 L01 R15, R23, R19 D025 L01 R22, R23, R15 D026 L01 R15, R11, R05

D027 L01 R18, R24, R19 D028 L01 R14, R15, R22, R07 INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH VOLUME nine, ISSUE 01, JANUARY 2020 ISSN 2277-8616 1766 IJSTR©2020 www. ijstr. (22)

org Dhapur Luk Ricikan D029 L01 R10, R24, R19, R20 D030 L01 R12, R11, R06, R15 D031 L01 R06, R12, R25, R23 D032

L01 R12, R06, R15, R19, R23 D033 L01 R06, R12, R15, R07, R19 D034 L01 R06, R12, R15, R22, R07 D035 L01 R11, R12,

R10, R15, R23, R07 D036 L01 R06, R12, R14, R15, R22, R23 D037 L01 R06, R12, R14, R15, R07, R18, R19 D038 L02 R06,

R12, R25, R15 D039 L02 R06, R12, R15, R25 D040 L02 R07 D041 L02 R12, R15, R22, R23, R07 D042 L02 R12, R17, R15

D043 L02 R22, R07 D044 L02 R06, R12 D045 L02 R11, R39, R40, R23 D046 L02 R12, R25, R15 D047 L02 R12, R25, R15

D048 L03 R12, R23, R19, R20 D049 L03 R12, R15, R22, R16 D050 L03 R22, R07 D051 L03 R12, R23, R22, R15 D052 L03

R12, R06, R23, R15 D053 L03 R05, R11, R06, R12 D054 L03 R15, R22, R23 D055 L03 R06, R12, R22 D056 L03 R12, R15,

R19, R41 D057 L03 R11 D058 L03 R15 D059 L03 R06, R12, R10, R14, R15, R22, R23, R24, R07 D060 L04 R12 D061 L04

R06, R12, R15, R22 D062 L04 R06, R12, R22, R07 D063 L04 R10, R24 D064 L04 R12, R07, R16 D065 L04 R11, R12, R22, R23 D066 L04 R12 D067 L05 R12, R15, R22, R06, R23 D068 L05 R12, R15, R22, R06, R07, R14, R18, R19 D069 L05 R12, (23)

R15, R22, R23 D070 L05 R12, R23, R14 D071 L05 R23, R07 D072 L05 R12, R06, R07 D073 L05 R12, R15, R06, R25 D074

L05 R12, R15, R22, R23 D075 L05 R12, R06, R22, R23 D076 L05 R12, R06, R22, R23 D077 L05 R12, R15, R22 D078 L05 R15, R22 D079 L05 R12, R15, R22, R23 D080 L05 R12, R07, R10 D081 L05 R12, R07, R10 D082 L06 R12 D083 L06 R12, (23)

R15 D084 L06 R10, R23 D085 L06 R15, R22 D086 L06 R12, R25, R22, R23 D087 L06 R06 D088 L06 R06, R12, R14, R15, R07, R22, R19, R18 D089 L06 R06, R12, R14, R15, R07, R19, R18, R22, R25 D090 L06 R06, R12, R14, R15, R07, R19, R18,

R22, R25 D091 L06 R06, R12, R15, R22, R23 D092 L06 R06, R10 D093 L06 R06 D094 L07 R06, R15, R15, R22 Dhapur Luk

Ricikan D095 L07 R06, R15, R25, R10, R14, R15, R22, R23, R07 D096 L07 R17, R15, R07 D097 L07 R22, R23 D098 L07 R06,

R12, R25, R22, R23 D099 L07 R22 D100 L07 R06, R12, R15, R23 D101 L07 R12, R25, R22, R23 D102 L07 R05, R11 D103

L07 R06, R12, R22, R23 D104 L07 R11, R07 D105 L08 R06, R12, R15, R23 D106 L08 R14, R07 D107 L08 R12, R25, R22,

R23 D108 L08 R06, R12, R22, R23 D109 L08 R06, R12, R07 D110 L09 R06, R12 D111 L09 R12, R16 D112 L10 R14 D113

L11 R06, R12, R15, R07 D114 L11 R06, R12, R22 D115 L11 R06, R14, R15 D116 L13 R06, R12, R15, R23 D117 L14 R06,

R12, R15, R23 D118 L15 R06, R12, R15, R23 Expert structures which have been created should enter statistics of daphur, ricikan, luk, know-how approximately

pamor and tangguh.

When know-how base of luk, dhapur and ricikan has to be carried out then developing the relation of know-how base.

From this relation, professional gadget could make a choice from the solution from person.

Expert gadget a questions that it should be selected through person one after the other till the remaining query.

Expert gadget will deliver records approximately dhapur keris primarily based totally on know-how that fill in gadget before.

Figure 2 is a view of enter know-how base shape.

The maximum important shape is session approximately dhapur of keris.

Figure three is a view of session shape.

User will be requested every ricikan her/his keris that has been compiled know-how base. One through one query gived to person till professional gadget located the solution of dhapur keris. (25)

User will be requested every ricikan her/his keris that has been compiled know-how base. The solution will conical withinside the grid and the very last solution is displayed withinside the label. Fig. 2. (26)

Knowledge Base Of Ricikan Form Fig. three.

Consultation Form INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH VOLUME nine, ISSUE 01, JANUARY 2020 ISSN 2277-8616 1767 IJSTR©2020 www. ijstr.

org five CONCLUSION Expert gadget has been created to decide the kind of keris through the

use of Delphi XE eight and MySQL as a database to keep a few know-how of an

professional. The gadget can offer additional records approximately pamor and tangguh. (27)

To produce solutions from the keris will recognized should required a know-how base of dhapur, luk and ricikan.

Knowledge base statistics has been created, there are dhapur, luk and ricikan that become a reference to provide records approximately dhapur.

The gadget can deliver solutions of the keris being requested with 90% accuracy.

The maximum person or humans whove attempted this professional gadget feel beneficial in figuring out the keris owned and upload know-how approximately keris.

6 REFERENCES [1 Harsrinuksmo , Bambang, Keris Encyclopedia, Jakarta : Gramedia Pustaka Utama, 2007.

[2 Turban, Efraim, Decision Support System and Intelligent Systems, Yogyakarta : Andi, 2009. [three H. B. Santoso and R. P.

Hardjon, "Hybrid Method and Similarity to Recognize Javanese Keris", International Journal of Advanced Computer Science and Applications, vol.6, pp.

108-114, Sept, 2015, doi :10.14569/IJACSA.2015.060914.

[four Rojali, Said, "Analysis Value of Character Education in Javanese Keris (Study of the Value of Character

Education on Pamor, Luk, and Dhapur java's Keris Based on Symbolic Meaning (Translation Journal Style)), vol. five, pp. 1-11, Nov, 2016, http://journal. student. uny. ac. id/ojs/index. (28)

Education on Pamor, Luk, and Dhapur java's Keris Based on Symbolic Meaning (Translation Journal Style)), vol. five, pp. php/ecraft/arti cle/download/5109/4772. (29)

[five Warto, "The Meaning of Keris Design in Javanese Culture (Translation Journal Style)", Komunika vol 2, pp.

17-22, Jan, 2016, http://ejournal. iainpurwokerto. ac. id/index. php/komunik a/article/view/814. (30)

17-22, Jan, 2016, http://ejournal. iainpurwokerto. ac. id/index. [6 Hasanah, Uswatun, "Software Painting Pattern Patriotic Java Keris By Implementing Kohonen Neural Network (Translation Tesis Style)", Jakarta : Informatic Engineering UIN Syarif (31)

Hidayatullah, 2014, pp. three-6.

[7 Haryoguritno, Haryono, Jananese Keris Between Mistic dan Logic, Jakarta : Indonesia Kebangsaanku, 2007 [eight Kasmui, "Expert System To Identification Javanese Keris With CF (Certainty Factor) Method (Translation Tesis Style)", Jakarta : Universitas (32)

[7 Haryoguritno, Haryono, Jananese Keris Between Mistic dan Logic, Jakarta : Indonesia Kebangsaanku, 2007 [eight Kasmui, Islam Negeri Syarif Hidayatullah, 2011, pp. (28)

1-five [nine Multazam, M.

and Purnama, B. E., 2015. INFLUENCE OF CLASSIFIED AD ON GOOGLE PAGE RANK AND NUMBER OF VISITORS. (32)

Journal of Theoretical & Applied Information Technology, 81(2).

Match Urls:

0: https://rune.une.edu.au/web/bitstream/1959.11/18675/8/open/SOURCE07.pdf

1: https://www.semanticscholar.org/paper/Masterpieces-of-Oral-and-Intangible-Culture%3A-on-the-Nas/21b9f3eb0301a454 26fed4705bbd3fbe9ba4621f

2: https://www.youtube.com/watch?v=LVrqN0d1luk

3: https://www.youtube.com/watch?v=ECHWaXGN00E

4:
https://teecc.illinoisstate.edu/downloads/Pages%20from%20Final%20Revised%20IL_Danielson%20Framework%20with%20Early%20Learning%20Examples-2.pdf

5:
https://www.ed.ac.uk/literatures-languages-cultures/english-literature/undergraduate/current/pre-honours/english-literature-2

6: https://www.dictionary.com/browse/segmentation

7: https://www.ijstr.org/final-print/jan2020/Expert-System-For-Identification-Dhapur-Of-Java-Keris.pdf

8: https://paywithfour.com/

9:
https://www.researchgate.net/publication/321539352_SHAPES_OF_JAVANESE_KERIS_AS_A_SYMBOLIC_SIGN_TRANSFORMATION_TOWARD_THE_ISLAMIC_PERIOD

10:
https://www.academia.edu/2612190/MOSCOW_AS_THE_THIRD_ROME_ATTITUDE_TOWARDS_THE_BYZANTINE_HERITAGE_IN_GEORGIA

11: https://www.invaluable.com/auction-lot/javanese-keris-with-scorpion-motif-on-pamor-26-c-d554e1eaa2

12: https://repository.telkomuniversity.ac.id/catalogue/2014.html

13: https://files.eric.ed.gov/fulltext/ED605316.pdf

14: https://www.citefactor.org/journal/index/11642/international-journal-of-scientific-technology-research

15: https://www.youtube.com/v/uhaMz8m_Cuk

16: https://www.facebook.com/groups/350976561824/permalink/10158121933296825/

17: https://www.edge.org/responses/what-scientific-concept-would-improve-everybodys-cognitive-toolkit

18: https://www.youtube.com/watch?v=NLntfdw0xc4

19: https://www.dictionary.com/browse/relationship

20: https://www.youtube.com/watch?v=LwPmAf-43u0

21: https://dictionary.cambridge.org/dictionary/english/technique

22:
https://www.ijstr.org/final-print/mar2020/Hplc-And-Gc-ms-Analysis-Of-Bioactive-Compounds-In-Embelia-Tsjeriam-cottam-roem-Schult-A-Dc-a-Threatened-Species.pdf

23: https://www.scribd.com/doc/168961412/Active-Ortho-doctors-list

24: https://www.wattpad.com/1003248656-slendytubbies-one-shots-requests-open-i-gived

25: https://www.youtube.com/v/zqddO3Aqa2I

26: http://drupalmodules.org/module/views

27: https://repository.bsi.ac.id/index.php/repo/viewitem/20687

28:
https://archive.org/download/5109pdf/5109%20%D9%83%D8%AA%D8%A7%D8%A8%20%D8%A7%D9%82%D8%B1%D8%A7%20%D8%A7%D9%88%D9%86%D9%84%D8%A7%D9%8A%D9%86%20%20%20%20pdf%20%20%20%D9%85%D8%B5%D9%86%D9%81%D8%A7%D8%AA%20%D8%A7%D9%84%D9%84%D8%AD%D9%86%20%D9%88%20%D8%A7%D9%84%D8%AA%D8%AB%D9%82%D9%8A%D9%81%20%D8%A7%D9%84%D9%84%D8%BA%D9%88%D9%8A.pdf

29: https://journal.uinsgd.ac.id/index.php/atthulab/article/view/14773

30: https://www.ijstr.org/paper-references.php?ref=IJSTR-0120-28182

31: https://repository.bsi.ac.id/index.php/repo/viewitem/29105

32: http://www.jatit.org/volumes/Vol81No2/2Vol81No2.pdf

Keywords Density

One Word	2 Words	3 Words
keris 3.76%	dhapur keris 0.49%	primarily based totally 0.44%
dhapur 1.98%	primarily based 0.44%	dhapur luk ricikan 0.28%
base 1.46%	based totally 0.44%	international journal scientific 0.2%
java 1.13%	kind keris 0.4%	www ijstr org 0.2%
gadget 1.05%	knowledge base 0.36%	technology research volume 0.2%

Plagiarism Report

By check-plagiarism.com