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# College Quality Development Model Based on E-Governance through Research, Entrepreneurship Education and Human Resources Capacity

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## ABSTRACT

College have an important role as teaching universities, research universities, and bastion of civilization. College paradigm reflected from college change of role because of globalization influence, human resources scarcity to respond the change precisely, science and technology that developing really fast, and entrepreneur culture development. The most fundamental problem that college face right now, is policy, implementation, supervision, and evaluation. Meanwhile the quality and college output relevance are not giving any contribution to the industry world and society yet, as well as related to important factors, that is entrepreneur amount that comes from college is still very low. Analysis result to this research shows that : (1) college quality development model based on e-governance through focus research, entrepreneur education dan college resources development (capacity) are a strategical approach to improve college competitiveness; (2) Effectively build private college management through main aspects in field of research, that is research policy aspect; researcher's motivational condition aspect; research funding aspect; intensive system to research outcome aspect; cooperation with institutions aspect; operator support aspect; utilizing database through lecturer's portfolio aspect; managing scientific journal aspect; and empowering non-grant scientific forum and non-grant textbooks; and (3) important key to grow technopreneur global (nourishin global technopreneur) in private college, is depend on conditional existence of college with its unique attribute. Attribute of the study results in entrepreneur education that effective to college student and alumnus as entrepreneur input, is brand personality, brand behavior, brand tone of voice, benefit brand, brand promotion, brand story, brand communication, brand message, brand naming and brand identity. Recommendation for private college management, if they want to actualize qualified colleges that have competitiveness based on e-governance, then the college manager have to decide which is the best model about field of research policy, entrepreneurship education, and increased capacity of college resources.

Keyword : Quality, E-Governance, Research, Entrepreneurship, and Development

## INTRODUCTION

College have a really important role in the society. That role is oftenly formulated to three paradigm, that is teaching universities, research universities, and bastion of civilization. Important concept to qualified college ideally refer to college tridharma spirit that supported by technology information system and entrepreneurship, and reliable human resources capacity. College need to make a change, both in direction and college purpose that is involved in quality and quantity aspect, that wil be reflected from their alumnus in doing research and devotion at the inside their working place and/or outside their working place. The concept of change by organizing college management process, either strategical or operational, in facing the global challenge. College growing perspective as a concept of corporation, through that corporation application, technology information availability, technology information utilizing, and its important role to communication between college. Graduates competitiveness to learn independently and for life within the

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span of their devotion in business world. Condition above in line with study from *Alttbabach* dan *Knight,* (2010), which state that there's four factor that cause a change in college education in 21st century, that is : (1) college change of role because of globalization influence; (2) human resources scarcity to respond the change precisely; (3) science and technology that developing really fast; and (4) entrepreneur culture development. The Economist state that college play a greater role in the society, especially in human resource development and national development to spread the culture widely. The real form from this quality development model poured in a college vision. The problem is college right now is not ready yet to face changes in globalization era; higher education management still facing policy , implementation, supervision, and evaluation problem; related to access, quality, budget, and funding, relevance, and governance problem; and quality and relevance problem in college that aren't giving any contribution to industry world and society yet. College right now are not able to become an important factor that capable to make a significant amount of entrepreneur with job creation orientation and independence; the number of educated unemployment is still big, and the minimum number of research results publicated in scientific journal. The next problem is devotion program to society is not responsive to contribute to empowerment and community development which is the very fundamental problem that college face right now. With this background this article study about qualified competitive college strategy with title : "College Quality Development Model Based on E-Governance through Research, Entrepreneurship Education and Human Resources Capacity".

## THEORETICAL FRAMEWORK AND PROPORSITION

### *Theoretical framework*

*E-Governance Based college will work optimally when focus and adjust to global standart towards college change of role in governance business process with focus towards research institution and devotion to society, entrepreneurship education and human resource development capacity. Governanve business process are a strategical method to create a competitive college. There's a lot of literature from the informan that used in study variable which is described in this article, that is:*

### Entrepreneurship

According to Eka Jati Bambang, Murdaka, and the others, (2015) Entrepreneurship is an effort to utilize a chance to get a benefit either in form of money and valuable things or reputation. Entrepreneurship subject is called entrepreneur. Next, they add entrepreneurship means standing on its own foot or its own skill. Entrepreneur implementation according to Siswo Wiratno in National Education Department (2010), the implementation of entrepreneurship education, is (1) entrepreneurship as an education in secondary education, and as courses at higher education, and (2) entrepreneurship as a skill that refers to the standard of competence. Subjects in secondary education and higher education is different, but in essence is just the same, in vocational high school entrepreneurship is commonly called "production unit" meanwhile in college is called "business incubator".

### College Management

*Balderstone in the book of (Indrajit & Djoko Pranoto, 2011):"* Now the college has become a mixture of institution, entreprise, and agency. This is partly because it has assembled a large and confusing range of activities and operations, but partly also because the major parties at interest want to view it ini different ways; the faculty and students as an institution; the trustee and some administrators, as an enterprise and the government sponsors as an agency. Conflict of purpose, law, motivation and style flow from these different views. But i believe that important consequences flows from the voluntaristic and self- propelling character of the process of learning bt individuals and groups of scholars."

Application of general management functions in college management: (a) Working program planning including budget are not a new things for college, either five years planning or yearly planning. Planning

International Journal of Business Accounting and Management
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also needs to be done for strategical planning, that is planning that decides life and death and the growth of an entity, including college; (b) Organizing. Organizing functions includes appropriate staff filling function for every job or position; (c) Implementation. This job is the job to move every human resource that working in college so that every people work as they assigned before with spirit and maximum ability; and (d) Supervision. Supervision is the last management function, but it doesn't mean that supervision is the most unimportant function. Supervision is observation and measurement, whether the implementation and the work is accordance with the planning or not.

***E-Governance* Role to College**

According to Nurhadryani (2009), factor in E-Governance can be simply divided into two types. First is public sector as government management consisting of monetary department executive, education, health, etc), judicative and legislative in national, regional and local level. The second factor is called end-user, according to governance concept above end-user consists of non-government sector and private sector that interact in five level governance. Utilization of information system through the virtual office services will improve the quality of office services better to all skateholder who will subsequently deliver sustainable competitive advantage, especially for college.

***College Role in Research, Entrepreneurship, and Human Resource Capacity***

According to Prasetyo (2013), college existence in the overall life of a nation and a state, have a really important role through tri dharma college that is education, research, and devotion to society. The second dharma is research, college must be able to realize academic scientific institution that capable to create a lot of innovative invention through researching activities. Through this research, college can develop itself and give a donation for field of science development and application in every developing effort. Next, through the third tri dharma that is devotion, college existence must be felt for the benefit of society growth. Human resource Development capacity in college, according to Wilson (2012) Operational Function Human Resource Management is procurement, development, compensation, integration, and human resource maintenance.

Picture 1. is showing operational functions of human resource management. This model is suitable to be applied in a college as its business process.

International Journal of Business Accounting and Management
ISSN 2527– 3531
Vol 2, Issue 4 (September 2017)

| | | | |
|---|---|---|---|
| Human Resource Component<br><br>○ Communication<br>○ Safety and Health<br>○ Job Motivation<br>○ Job Satisfaction and Leadership | Human Resource Maintenance | • Human Resource Procurement<br>• Human Resource Development | • Job Analysis<br>• Human Resource Planning<br>• Human Resource Recruitment<br>• Human Resource Selection and Placement<br>• Human Resource Development<br>• Career Development<br>• Organization Development<br>• Management and Evaluation |

Picture 1. Human Resource Management as Process

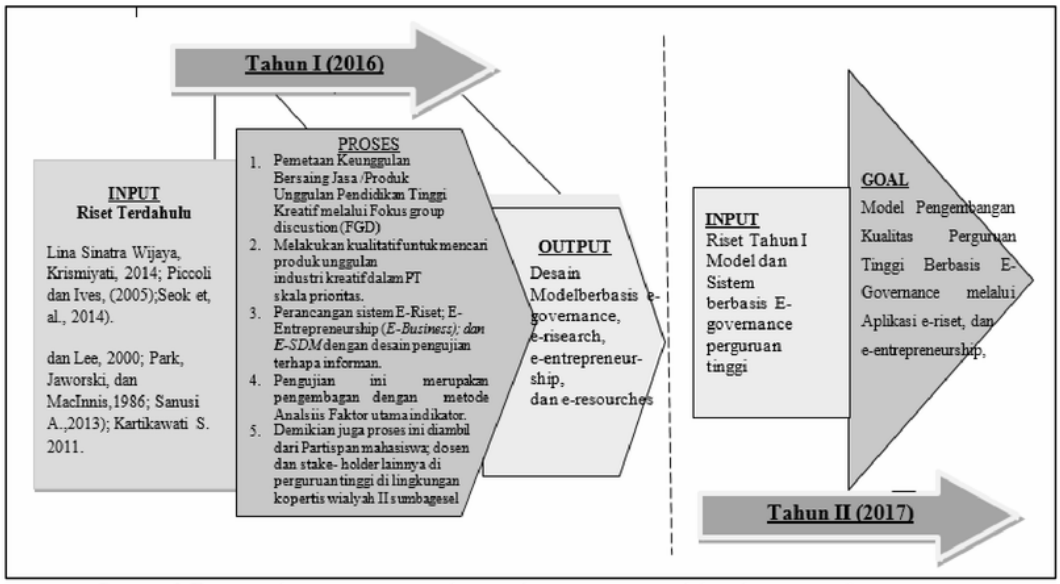
**Previous Research**

Previous research show, that according to Sanusi, A (2013) an effective model was formed when managing a private college, that is : college quality standard model, human resource development, and change of college management based on quality. While research results also can show the main factor in quality policy implementation, and increasingly measurable of quality policy. Alttbabach and Knight Theory in Journal of studies ini Internationl Education, Vol. 11 No.3/4, Fali/ Winter, 2007. Change paradigm is college change of role that caused by globalization influence, human resources scarcity to respond the change precisely, science and technology that developing really fast, and entrepreneur culture development. According to Piccoli and Ives, (2005), technology information existence from competitive advantage are one of the most basic concept and initiation to support the continuation of those competitive advantage. Effieciency of administrative activities will be created with the application of technology information (Min-Seok et, al., 2014). System information utilization through offive services virtually will increase the quality of office services better to all of the skateholder that will give competitive advantage, especially for college (Pasaribu, Yusepaldo et all., 2015).

***Research Proporsition***

*E-governance based college realized when management optimally focus on research institution organizing, entrepreneurship education, and resource development are a strategical method in effort to create a competitive private college. E-research model, e-entrepreneurship, and e-resources right now are a new issue along with digital online based science and technology. This encourage the researcher to develop e-research, e-entrepreneurship, and e-resource based on private college e-governance in effort to create a new business man from academics, international index scientific publication, and create a human resource that have a competitive advantage.*

International Journal of Business Accounting and Management
ISSN 2527– 3531
Vol 2, Issue 4 (September 2017)




Picture 2.E-research, e-entrepreneurship, and e-resources model and system information.

## RESEARCH METHOD

Research method that was used is qualitative method, that is literature study, observation, and interview with the related person with college strategy. The presentation can be attributed with researcher's avhievement that could be use for reference to continue research activities that will be proposed and will be done during the study period. This data collection technique based on instruments with observation and interview technique and Focus Group Discussion (FGD), so applied to the respondent to reviewing the readiness and problems that college faced especially the shift in the growth of entrepreneur among college. This interview aims to explore various matters relating to the college quality problems. Data collecting phase in the field this research using a technique that Moleong (2000:85-103) developed, can be divided into three that is : pre field stage, field work stage, and data analysis stage.

## DATA ANALYSIS AND DISCUSSION

Based on the study of this research will bring up a few of developing model that is application research program in private college. The shape of the model design, is "Strategy to win a superior college based on e-governance through e-researchers application (picture 3).

International Journal of Business Accounting and Management
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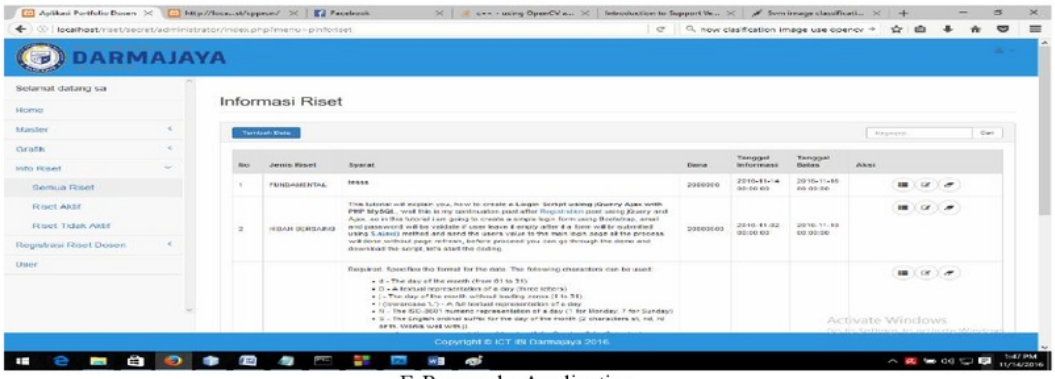
Vol 2, Issue 4 (September 2017)




E-Researchs Application

Research results show that through this article the formation of a strategy model to win the superior and competitive college based on e-governance through research, creating entrepreneurship, and resource development; realized the development model of LPPM information system with the ***e-researchpts*** application **(e-fortopolio.darmajaya.ac.id)** is a research application program in private college in order to support the researcher competitive quality; entrepreneurship education system concept is relevant with the college character and condition right now. The conclusion from this study results is "model of the college flagship approach based on e-governance is an effective model to decide which strategy that the college have to choose to win the competition between college at South Sumatra.

***Internal Quality Audit System***

*Research capacity development is done with one of internal management. Evaluation is periodically done comprehensively with considering unit performance aspect, contribution to the performance, the overall academic reputation, and the effectiveness of unit implementation. Overall evaluation is need to be done periodically to optimize the quality assurance system which can be used for an accurate development for each work unit. The formulated development in the main effective model doen in this research is the capacity research , entrepreneurship education, and human resource model. Relation and development urgent with the internal quality audit that also an evaluation tools under the coordination of quality assurance agency in the national and international level. private college required to keep make an effort to build a cooperation network with an agency, college, government, or an industry. This effort is realized through intensification and extensification. Intensification with an optimalization cooperation between college. Meanwhile the extensification is done through development of a new cooperation either in national or international level.*

**College Quality Development Model Based on e-Governance Through Research**

Research development that have been adjusted with the college location and community, for example the college location is on the coastal areas then the focus research is about marine, human resource development for the coastal communities, and also seaweed potentional business. While to publish research on : (a) International journals; (b) Upload to the internet; (c) International association or communities research. The ideal approach to develop the research focus is depend from how LPPM adjust to the development of globalization era that in this matters refers to international standard (Word University Criteria) and research approach that adjust with college location and communities located. Data integration from a lot of source are a measure from a research that the output finally decided from novelty, that started from bibliography and an unfinished method. In line with Sunu Wibirama, (2011) Scientific Writing and Research Coaching is the most hardest things to defend in a research when in a test or in a monev, that is a question about "novelty" and research contribution, either for advancement for science or for society

International Journal of Business Accounting and Management
ISSN 2527– 3531
Vol 2, Issue 4 (September 2017)

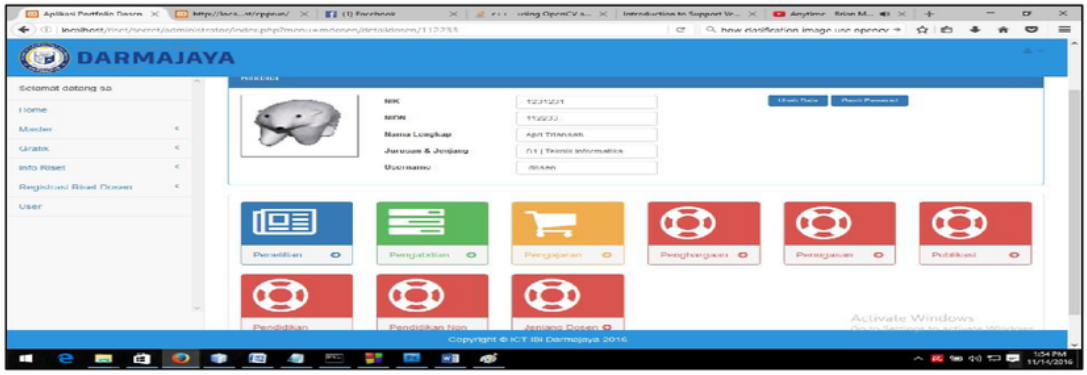
generally. In the first part of a research, it is necessary to list general terms, then when it goes deeper, the things are getting narrower and narrower. In the discussion part, research results and conclusion, that general terms are re-listed and linked with the research that has been done.

**Developing A Private College Management Model Based On E-Governance**

To develop a college management model based on e-governance there is a main element that have to be considered, that is the variable that is in direct contact with the policy in the research mapped into : (a) Research Policy. When starting to manage research performance should begin by formulating the research role as the college policy which is expressly stated in the statute, college development master plan and strategic plan and research master plan; (b) Build researching motivational condition. The main key in the first step for a college is the establishment of an institution that sepecifically manages the research. The other key is ensure that the program is working or not, required the speed to respond and expertise of management and personnel managing research institution to prepare the proposal as a training provider; (c) Education concept. Research institution need to developed by a person that have a high work ethic; (d) Research funding. Related with the value of lecturer performance quantity, more and more research that been funded by non-grant fund, such as institution, then the greater the contribution to the score of research performance; (e) Incentive to research outcomes. LPPM role in boost lecturers to work so they can can fill the component of research outcome; (f) Institutional Network Institutions; (g) Operator support. Research institution's operator can't be separated from research activities. Reliability of simlitabmas operators in managing the data is really determine in reporting the research performance; (h) Lecturer's portfolio. Operator' job related with cluster madya must fill and upload research performance every single year. The data needed from the lecturer's portfolio is vital; (i) Journal management. Online website migration; (j) non-grant scientific forums and non-grant textbooks

**College Quality Development Model Based On E-Governance with Research Application Program**

Studies in this research will be generated some od development model, that is research application program in private college. The shape of design model in question is "Strategy model to win the superior college based on e-governance through e-research application that could be seen below (picture 4).




**Picture 4. Lecturer Dashboard Data Page**

**Research Development Model**

Research method that was used is qualitative method, that is literature study, interview, and distribution of questionnaires to the interviewees in four province/city on South Sumatra, as well as model analysis. The

next method that was used is quantitative method, this method is to measure the college performance parameter and the growth of entrepreneur from college. Based on research from the first, second, and the third year, quality model of the higher education based on e-governance has been developed through focus research, entrepreneurship and resource/capacity development in private college. Research dharma become the most vital part in college to realize academic scientific college. The real form that have been expected by college is make a lot of inovation invention through research activities. Through this research college can develop itself and give contribution to development of science field and application in various renewal efforts. The concept that the college needed is efficiency and a concept based on e-governance or visual. Fundamental concept that is related to private college existence, applied a virtual model to support every integrated activity to all of work unit. College through some concept.

**Build an *E-researchpts* Application**

*In the development of information systems right now, the concept of E-Research will develop, and there will be a lot of organization use it in college business process. E-Research is an integration from practical management with technology application. The first step, researcher team exploration do some exploration to some private colleges. Exploration is conducted, aiming to identify E-Research application that needed for private college that has implemented technology information already. The second step is, validation to some college with in-depth interview. This validation aim is to give confirmation about the proposal of prototype model of E-Research application that comes from research results that have been implemented in private college. In-depth interview is done to a chosen college to be the informan of this research which is : Head and staff of the internal quality assurance unit, Rector/Chairman/Director/Dean/Vice Dean/Head of Program; Vice Rector; Quality control group; Expertise Group; College student/alumnus; and Lecturer, as well as propammer. The third step, after exploration and validation is already done, now is the designing method for the prototype of E-Research application for private college. Designing the prototype of E-Research application starts with model proposal, and data stream identification in a data flow chart that developed with Aplikasi Microsoft E-Research application and E-Journal National Accreditation.*

**The Design of The Target Indicators of The Research Field**

Description of the intended field of research which is the ideal standard for doing so in order to increase the amount and research activities always on the runway, so it is compulsory and common to be follow by another leading college in the world generally and for private college specially.
The target area of the lecturers/expertise group research field indicated is the right thing caused by lecturer is an implementers for Tri Dharma College, teaching, researching, and devotion to society. Lecturer with qualified academic have the competence to wide spread the knowledge, search, and test the truth through a systematic scientific method, so it could make an important contribution in implementation and development of Tri Dharma college. From the side of institutional group, their aim is work unit of research institution that also becomes the target areas of expertise services needs to be developed in a sustainable manner.

**College Quality Development Based On E-Governance through Entrepreneurship**

Tips to start entrepreneurship again for college student. There are a few tips that can be reference to become an entrepreneur : (1) study the background of friend of one generation; (2) find a friend that can be invite to compromise, close enough, or even best friends, and also have the same spirit to start a business; (3) find reference or book about how to study programming language that used an example how to build an application or system information management that have a complete case study. If you didn't find it try to search it through open source, check it on sf.net and famous network like Esco, or you just can search it on google; (4) now start to learn system information management, learn it from how to do a simple coding, and add some necessary function; (5) build a product such as software that are ready to offer, eventhough

International Journal of Business Accounting and Management
ISSN 2527– 3531
Vol 2, Issue 4 (September 2017)

it's simple and the engine is copied from an example in the textbooks or from open source; (6) success is implemented; (7) don't get satisfied just from that, make a site for promotion; (8) update banner and brochure is recommended, and organizing system information management and then implement it; (9) prepare the portfolio with the application based on feedback from the model you already used; (10) fix the user inter face, make it better and more unique than before, give a new version so it's easier to start an offer for superior product from college student; (11) If you already done with one product, keep fix that product until its feature is complete. Analysis from these eleven steps, is that a college student who just start entrepreneur can become a professional entrepreneur.

**The Ins and Outs of Entrepreneurship**

Entrepreneur is someone who made decision that help to create a free economic system. Entrepreneurship career have its own satisfactory. Entrepreneurship idea is an understanding about important aspect before starting a business. There's a lot of consideration when you try to defend entrepreneurship spirit. This few years, intrapreneurship topic is becomes a trending topic. Discipline of entrepreneurship and its growth in economic theory, a study about entrepreneurship is emphasized to identification at a good chance. Competitive environment and strategy against a new competitive environment.
Benefits include; (a) Develop the college network, communicate a current development; (b) Research results is need to be in line with eradication of poverty, unemployment, and underdevelopment. The benefits in entrepreneurship, is (a) making entrepreneurship as an alumnus quality improvement solution; and (b) take advantage of the momentum of information technolofy as a toll for business development.

**Leading Research College Based On E-Governance Entrepreneurship**

Entrepreneurship development based on e-governance in private college that poured in preparation of ***Road-Map Research.*** This *Road-Map Research* preparation background is based on potential resource that includes into human resource in college, then to create a product, college includes in entrepreneurship, that efficien, low risk, also easy and affordable for every people. Other factors that underlie the preparation of this research plan are in line with the existence of the college vision and mission and center of tecpreneurship that very potential in entrepreneurship development in college level, as well as a few research about tecpreneurship, including its preclinic test which leads to the development of an effective, economical, and beneficial formulation technology for the community. The basic foundation used in entrepreneurship development, preclinics test, and clinics test, is the search for technological solutions that take into account the characteristics of entrepreneurship, benefit, and efficiency.

**The Concept of Competitive Research Based On E-Governance through Entrepreneurship Education**

One of the most important role that the college hold is to answer the challenge, that become more complex this time, that is the occurance of paradigm shift in the development of culture of entrepreneurship. While college this time is just creating a job hunter, not a job maker, even though this country needs more job maker, rather than job hunter. According to Sunarya, Abas PO., and the others (2010: 125-126), if the job maker is more than the job hunter, that means a country can importing labour to other country not the other way around. Related to what Sunarya and the others said, the existence of a college who teach a job maker candidate is very needed at this time. It's time for the college to focus to teach its student to become a job maker rather than job hunter, through "Curriculum" and "System" that created by the entrepreneur. Special characteristic model that relevance to private superior college concept is building a brand called "Brand Essence". The main concept to grow technopreneur global in private college, is (a) Brand Personality (brave, active, imaginative, and up to date), (b) brand behavior (creative, smart, active, ambitious, and spontan), (c) brand tone of voice, (d) benefit brand, (e) commitment to brand promise, (f) brand story, (g) consistency to brand communication, and focus on brand message, and (h) defend the brand name.

**Design Model of Private College-Based E-Governance Strategy**

International Journal of Business Accounting and Management
ISSN 2527– 3531
Vol 2, Issue 4 (September 2017)

Graduates that the college must prepare is expected not just master the knowledge, technology, or arts on a specific fields, but also master the other skill, such as communication skill, the ability to think logically, etc., that skill is called softskill.

All the material from the informan, especially material related to courses of all study program integrated with softskill and entrepreneur characteristic. The model that have been developed to grow an entrepreneur spirit from the college, that is build and implement softskill model.

**Building Entrepreneur Education Strategies and Programs**

Creating an application e-entrepreneurship which is derived from the current information system development model, that way e-entrepreneurship will develop and there will be a lot of organization that use it. E-entrepreneurship is an integration from practical research organizing with technology application. Exploration done with the purpose to identify e-entrepreneurship application that is needed for college. Validation to some college with indepth interview method. This validation have purpose to give proposal confirmation about E-Researchpts application prototype model that comes from research results system information that have been implemented in private college. After the exploration and the validation step is done, next is designing the prototype of E-Entrepreneurship for private college. This designing step is start with a proposal model and data stream identification in a data flow chart that have been developed with using an application called Microsoft E-Entrepreneurship Application.

**Design of The Target Indicators of The Entrepreneurship Field**

Description of the intended field of research which is the ideal standard for doing so in order to encourage entrepreneurship education activities in college, so the amount of the entrepreneur is also increasing. A group of student affairs becomes the target of college student competence to become an entrepreneur from college. The relevant mapping model to support student development direction in the field of student affairs, that is skill development according to their respective task fields, that has been supported by sertification programs; student development direction that was supported by Attachment to Research Groups; and and the other student development direction 7at have been already supported is go-international with the form of support of student exchange program. Based on the results of this study, it can be formulated, inicators as a standarad reference of competitiveness of college.

**The Development of The Quality of Private College Based On E-Governance through A Human Resource Approach**

Human resource development in college, that is (a) maximalize the knowledge power and human resource skill; (b) build a solidity and change commitment; (c) do something that is easy and cheap, but have a big enough influence, such as English course for all lecturers. Development capacity research done one of them with internal management. The evaluation is done periodically and comprehensively with considering performance unit aspect, contribution to the performance and overall academic reputation, and also the effectivity of unit management.

**Build Strategies through Human Resource Capacity Management Programs**

Based on the studies of this research, will be raised a few development model, that is research application program in private college. The form of the design model in question, is “Model strategy to win superior college based on e-governance through e-resourcessdm and e-fortopoliosdm”.

International Journal of Business Accounting and Management
ISSN 2527– 3531
Vol 2, Issue 4 (September 2017)

**Build An E-Resourcessdm and E-Fortopoliosdm Application**

In the growth of system information, right now e-resources and e-fortopolio concept will be developing and there will be a lot of organization that use it. E-Resources and E-Fortopolio are an integration from research practical management with technology application. In other words, *E-Resources* and *E- Fortopolio* system is the computer based system that able to help managementso they can managing the resource they have. The first step. research team exploration do some exploration to some private college. The purpose of this exploration is to identify *E-Resources* and *E- Fortopolio* application that the private college need. The second step, is validation to some college using in-depth interview. The purpose of this validation is to give proposal confirmation for prototype of *E-Resources* and *E- Fortopolio* application. In-depth interview is done to a chosen college to be the informan of this research which is : Head and staff of the internal quality assurance unit, Rector/Chairman/Director/Dean/Vice Dean/Head of Program; Vice Rector; Quality control group; Expertise Group; College student/alumnus; and Lecturer, as well as propammer. The third step, after exploration and validation is already done, now is the designing method for the prototype of *E-Resources* dan *E- Fortopolio* application for private college. Designing the prototype of *E-Resources* dan *E-Fortopolio* application starts with model proposal, and data stream identification in a data flow chart that developed with using *Micsoft E-resources,E-fortopolio research dan E-comers* application.

**College Human Resources Capacity**

Aspects of concern are vital to improving the capcity of human resources, that is: start from education point of view, academic position, the rights as lecturer that recognized by country. Variable development model of resources and capacity with a strategic dimensional position: is to maximize knowledge power; human resource skill; solidity build; change commitment; and efficien and effective activities. Analysis results with an approaching model analysis SWOT quality target human resource teaching development field, can be downgraded to become a major indicator as as a college GPI.

**Building A Competitive College Performance Standard**

An ideal development concept that has been recommended as an analysis result through this research that is : (1) building a competitive college performance standard based on research capacity and entrepreneurship; (2) *GPCR (Government to Process, Content, & Resources*); and (3) *GMJP (Government to Jasa/Produk PT)*. Supporting factor from the developed model is build or start with set up the campus profile appearance standard. The element that could be a supporting factor is : (1) sports arena, library, campus, theater room, laboratory, class room, dormitory, etc.; (2) building a competitive college performance standard based on research capacity and entrepreneurship with set up element.

**CONCLUSION, SUGGESTIONS, AND IMPLICATION**

**Conclusion**

It is the closing of the article which reflects the essence and reasoning of the research by the writer. It is also logically based on the evidence taken from, and presented by the writer in paragraphs and the details above are as the following. Strategy to win a superior and competitive private college based on e-governance, the effective choice is : (a) make up a research program model in effort to create entrepreneur and resources development; (b) Developing information system institution and devotion to the society based on *E-researchr* (*e-fortopolio.pts.ac.id*); (c) approach the strategy of private college to support the quality of competitiveness; and (d) build an entrepreneurship education system concept through entrepreneurship curriculum that are integrated to human resource, learning and product media that are in line with the mission of college create a culture shift, that is reflected by the creation of entrepreurial achievement and the creation of personnel self-confidence (college student and alumnus); and also (e) build

International Journal of Business Accounting and Management
ISSN 2527– 3531
Vol 2, Issue 4 (September 2017)

an entrepreneurship education system concept that is relevant with character and applied it to a confition in a private college. Build the private college management based on e-governance. Management consider and responsive to the main variable aspects related to research, that is: research policy aspect; researcher's motivational condition aspect; research funding aspect; intensive system to research outcome aspect; cooperation with institutions aspect; operator support aspect; utilizing database through lecturer's portfolio aspect; managing scientific journal aspect; and empowering non-grant scientific forum and non-grant textbooks.

**Suggestions**

This research is recommended to : (1) publicated in regional journal, national journal, and international journal; (2) as a reference book that has standard internationals; and (3) patented by proposing it to HAKI. Meanwhile the implication of this research is, when a college management wants to build the quality of services/product that have the global competitiveness, then it have to build a quality model of strategic development of quality research, entrepreneurship education, and human resource management capacity.

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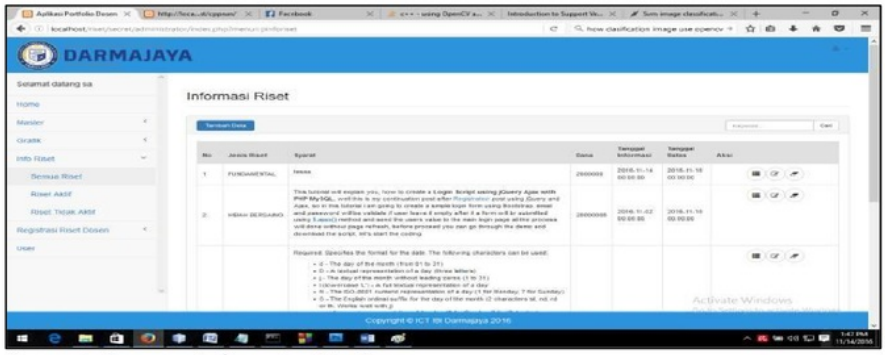
## APPENDICES




Picture 1. Resource Information List Page

2
International Journal of Business Accounting and Management
ISSN 2527– 3531
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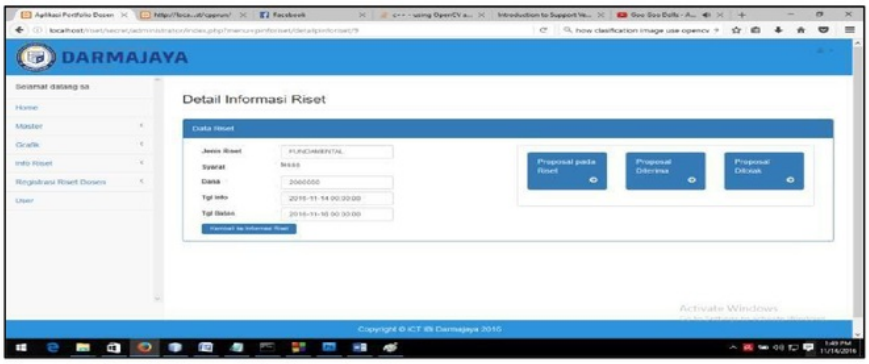
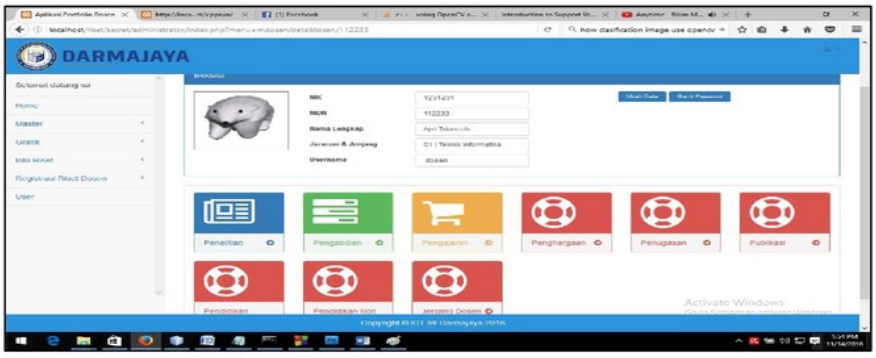
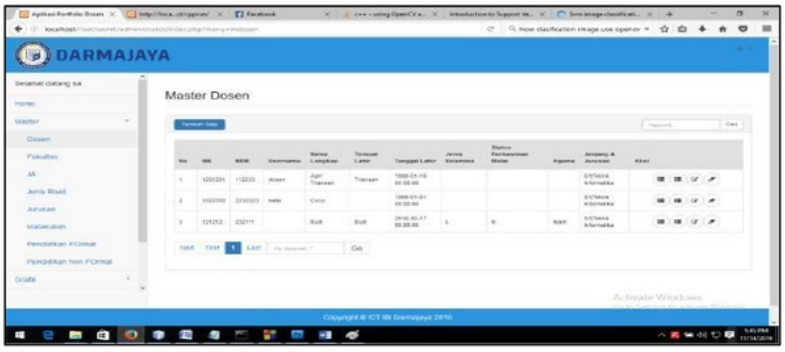


Picture 2. Detail Research Information Page



Picture 3. Lecturer Dashboard Data Page



Picture 4. Lecturer Data List Page

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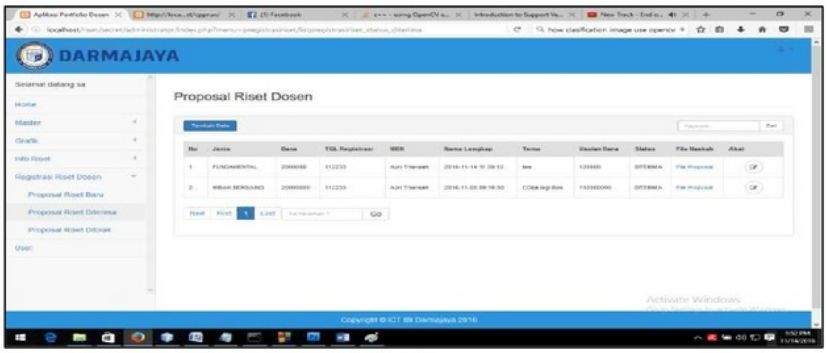
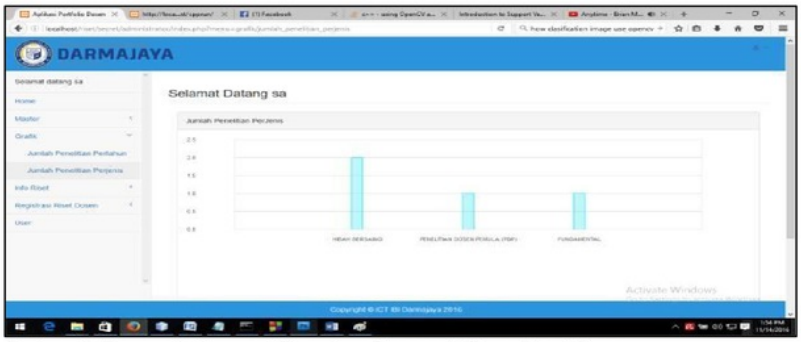


Picture 5. Lecturer Proposal Research List Page



Picture 6. Research Amount Based on Research Type Chart Page

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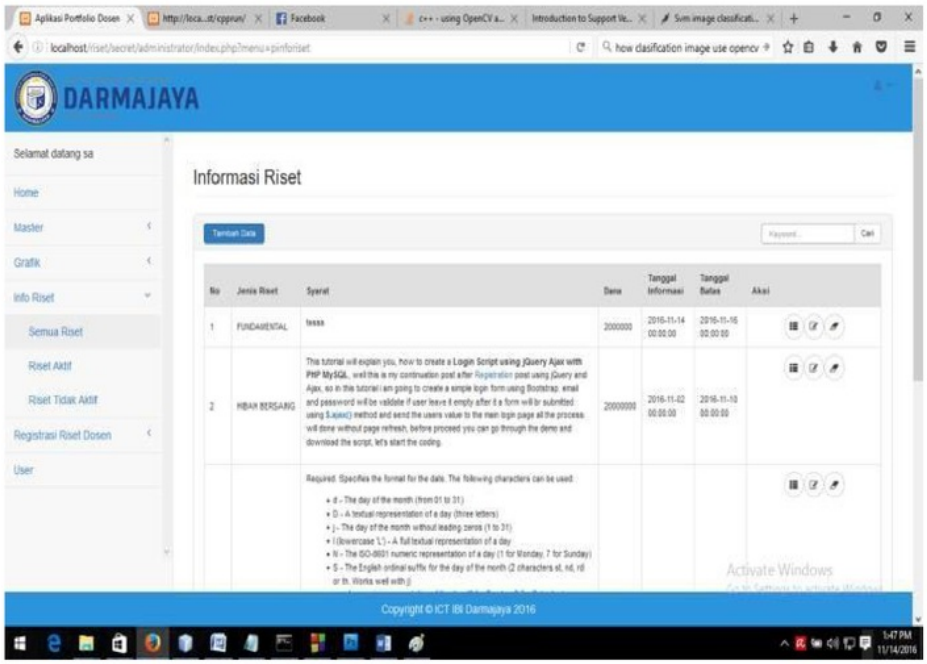

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