The Development of Community-based Information System To Empower Indonesia e-Government Implementation

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Motivation

Indonesia requires proper *e-government* system

People will get most benefit and shall experience the real advantages of Internet online system

- Problem: *digital-awareness is low for common people*

- Solution: *analyzing social and cultural condition*
Motivation

People are living in communities

Indonesia consist of thousand islands and thousands communities

- The idea is to empower community by optimizing the benefit of Internet
- Community might behave as the lowest level of governmental hierarchy
Motivation

CENTRAL GOVERNMENT

PROVINCE

RESIDENCY

VILLAGE = COMMUNITY = NAGARI

People are belong to community

Community is so much related with its CULTURE
Main problems

Internet perform many benefits, however, the first step is to attract people (community) for using the Internet

- Internet perform many benefits, however, common people thought Internet for only surfing the web, without accessing more advanced applications
- Then we stand in the middle
We develop Community-based Information System (CIS)
The CIS are designed by considering Indonesian societal system which is structured by communities.

- The CIS are formatted based on 1 (one) primary portal that groups numbers of community’s webs.
- CIS will contain community’s data which benefit either for its society or outer people who visit the web.
Implementation

We study community system behavior in West Sumatra Province which groups ca. 530 communities, named *nagari*, as the lowest level of governmental structure.

- The tribes and cultural system of people living in *West Sumatera Province territory* are named Minangkabau.
Basic Perspective

SOCIAL FACTS: Nagari is not only reflect the governmental authority but also symbolize the cultural behavior of its resident.

- SOCIAL FACTS: People who is born and living in a nagari is having a great sense of belonging to his nagari.

- CIS is planned to managing the data in order to support the development of Human Resources and Natural Resources of Nagari.
Logical Construction

Our concept is to perform psychological link between people and their nagari, then translated into Information System.

- Each community should have its own website, representing their nagari in digital architecture. Afterward, they are grouped in a single portal www.nagari.org, which plays as main platform.
www.nagari.org: Logical Construction

**Step 1** Grouping the community related with cultural behavior  *Main Submain*

![Diagram showing the URL link structure of www.nagari.org](image-url)

- **WWW.NAGARI.ORG** (main platform)
  - URL LINK:
    - www.nagariA.com
    - www.nagariB.org
    - www.nagariC.or.id
  - SUBDOMAIN:
    - www.nagari.org\nagariA
    - www.nagari.org\nagariB
    - www.nagari.org\nagariC
www.nagari.org :
Logical Construction

Step 2 Developing Applications related with cultural behavior

1. Applications that record community’s donations and report its realization
2. Applications that record nagari’s physical and non-psychical resources
3. Applications that record people who are born, live and death.
Step 3 Information System and Data Management

Communities play main role in CIS system
- They act as data manager and data contributor, named promotor
### Applications Data

<table>
<thead>
<tr>
<th>No</th>
<th>Applications</th>
<th>Data</th>
<th>Data management</th>
<th>Verification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Community’s donation</td>
<td>Who donate</td>
<td>PROMOTOR</td>
<td>COMMUNITY</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Amount of donation</td>
<td>PROMOTOR</td>
<td>PERSON</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Purpose of donation</td>
<td>PROMOTOR</td>
<td>COMMUNITY</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Realization</td>
<td>PROMOTOR</td>
<td>COMMUNITY</td>
</tr>
<tr>
<td>2</td>
<td>Resources</td>
<td>Physical</td>
<td>PROMOTOR</td>
<td>GOVERNMENT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Non-physical</td>
<td>PROMOTOR</td>
<td>GOVERNMENT</td>
</tr>
<tr>
<td>3</td>
<td>Residents</td>
<td>Inhabitants</td>
<td>PROMOTOR</td>
<td>GOVERNMENT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Who are born</td>
<td>PROMOTOR</td>
<td>GOVERNMENT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Who are death</td>
<td>PROMOTOR</td>
<td>GOVERNMENT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Who are marry</td>
<td>PROMOTOR</td>
<td>COMMUNITY</td>
</tr>
</tbody>
</table>

**ALL PARTIES ARE INVOLVED**
Data

DATA MANAGEMENT

ECONOMIC DATA
- People
- Amount of Donation
- Realization
- Purpose

Toward ECONOMIC ACTIVITIES

NATURAL RESOURCES
- Land of ulyat, mosque, market, lake, forest, tourism, animals, agricultural fields, handicraft industry, embankment, sea, mountain, etc

Toward RESOURCES PROMOTION

HUMAN RESOURCES
- Marriage
- Born
- Death
- Inhabitants

Toward ACTIVITIES APPLICATIONS

www.nagari.org
NAGARI SAIBER
TANJUNG SUNGAYANG
Promotor: Abraham Illyas
Suku: Malayu-Mandailing
Email: info@nagari.org

LIHAT KAMPUANG

NAMAN: Nagari Saiber (WSRo) yang di
Kampung di Wagu.
SUMBANGAN: Pemda
BUKU: pembudayaan dan
KEMENAKAN: pegawai Kemenag.

ALHAMDUILLAH
Bogor, 30 April 2019

BENAMILLAH
Suatu tugas, bukan tugas,
RABA PARTO
Kampung. Siapakah sih keberuntungan
PASAR
Sawah yang dibiyak dengan tanah kebun. Ketika itu kebun menjadi simbol kemajuan.

FARM: TOWER
PETRA: LOKASI
SEQUOIA: 3KM
FERNANDO: ADAT
EMILY: 190092
LAPIS: KUISRISI

Sumber air yang dibiyak oleh hutan, dibiyak oleh taman. Dari tanah-bumi yang dapat ditiup-dibawa untuk kemajuan kita.

Tahan dan air, sumber kehidupan warisan dari nenek moyang kita.

Dalamnya nagari Tanjung ini adalah sebagai positif suatu yang ditampakkan Tuhan di muka bumi.

Pasha Illyas
Pasha Illyas
Step 4 Government and Society Involvement

www.nagari.org is established by joint cooperation with parties which concerns to traditional culture (DATUK SODA) and communities/economic building (PKSBE UNAND)

- CIS can empower societies (community development) as long as Government join in the system by building any related applications
- The success of CIS depends on society involvement since they are the data manager
Conclusion

The development of CIS [www.nagari.org](http://www.nagari.org) is a pilot scheme that groups communities in West Sumatra, Indonesia.

- CIS can empower e-government that can be applied uniquely related to countries/provinces.
- The concept is merely to put attention with customs and cultural behavior of community, and make society as part of data management.
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