Vision and Scope Document

**for**

Barangay South Signal Village Web-App

**Version 1.0 approved**

**Prepared by**

**Rark Mowen Alcantara**

**Jakerson Bermudo**

**Wilkins Caducio**

**Mikedale Dellera**

**Princess Joy Ferrer**  
**Mohammad Darwish Mustary**

**Team Developmentality**

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# Revision History

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| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
|  |  |  |  |
|  |  |  |  |

# Business Requirements

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Planning & Brainstorming Phase:

* Searching for possible client and project proposal
* Meeting with the client for discussion of the proposal project
* Looking for advisor and consultant

Design Phase:

* Client meeting for the web application design, function, and services.
* Wireframe creation
* Using figma for UI/UX design
* Adviser and Course adviser consultations
* Finalization of function and services

Build Phase:

* Team Developmentality will use Laravel for the back end of the web app
* Team Developmentality creation of the 4 tabs for the web app ; Home page, Online Services, About Us, Contact Us
* Team Developmentality will use MySQL for the database
* Team Developmentality will use Blade.PHP (HTML, CSS, JavaScript).

Implementation Phase:

* For MNSTDEV, from March to May the Team Developmentality will provide the Objective, Proposed functions, Documentation, High Fidelity Mock-up, and a Project Teaser
* For MSYADD1, Team Developmentality will provide the Data modeling, the System Design, and Database System from August to November
* For MCSPROJ, Team Developmentality will provide the Complete Testing, Mobile Application Feature, Working Web-Based Application, and Working Cloud-Based Database from December to March

Project Handoff/Closure:

* Team Developmentality will provide all the documentation about the approved project plan
* Team Developmentality will present their project to their client, advisor, and project consultant
* Team Developmentality will provide the said Web-Based Application and the Cloud-Based Database to the client
* Team Developmentality will complete the project requirements checklist and showing that all project tasks have been completed
* Team Developmentality will provide a user handbook/guide to help the barangay employees on navigating on the website
* Team Developmentality will handout a list of suggested software and hardware systems/ specifications that the client will need.

## Background

The Barangay South Signal Village is a newly built barangay, making it less developed than other barangays. Processes are mainly paper based, and all transactions are done in the barangay which creates hassle for the residents. There is a long processing time, and the data of the residents is less secured and is prone to typographical errors. Storage also takes up too much space due to having a lot of file cabinets and physical storage. Thus, making an opportunity and a necessity to create a web application that digitalizes processes to lessen the hassle of the constituents. The web app also creates a more secure storage for the data and typographical errors are lessened due to guides that are provided in the web application’s forms.

## Business Opportunity

In the current era, technological advancements are highly prioritized and digitalized processes are a trend. The Barangay South Signal Village Web Application offers a wide variety of functions such as; Online Services (handles documents requests and concerns), About Us (Information about the barangay), Contact Us (Details of emergency hotlines in the barangay), Home page (Contains timely graphical announcements from the barangay)

## Business Objectives and Success Criteria

* One of the objectives that the team are aiming for this project is to polish the overall system as well as its design, right now the team estimated that the web is 60% - 70% complete. Then by the end of the term, the goal is to be at least 90% - 100% done.

* Another objective the team would focus on is identifying and fixing bugs. The goal may be to fix at least 80% of all identified bugs.

* After the release of the website to the residents of the barangay the goal is to increase website traffic by 20% after the first month. This helps us determine the increased growth and success of the website.

## Customer or Market Needs

Since we are in the era of technology and continuous technological advances, services provided physically are already considered outdated. A trend nowadays are services provided online such as online shopping, online booking, online reservation, etc.

Barangay South Signal Village is a newly built barangay making its processes and procedures outdated. The residents struggle to request documents in the barangay due to long processing time and the barangay employees are also struggling in recording and storing the data since an estimated amount of 4 out of 10 forms have typographical errors and the space in the barangay is slowly being consumed by the physical file cabinets.

The web application will provide online services that will handle document requests and a ticketing system for concerns. A significant amount of information regarding the barangay’s history, demography, mission, vision and organizational chart will also be provided for the residents to see. The web app will also provide an online form that will guide users in order to reduce errors. Processes are expected to be 80%-90% faster than the current system of the barangay.

## Business Risks

**The primary business risks that the team have identified are the following:**

* 1. Security – The breach of security on the web-application may lead to financial loss for the barangay as well as data and identity theft of the users of the website. Damage to reputation as well as the loss of trust in the residents may also be an effect of this risk.

This is a severity 1 risk as it can cause a lot of damage not only to the barangay but also, to their constituents.

The risk mitigation actions that the barangay may take are:

* + 1. Installation of antivirus/anti-malware software
    2. Proper training for the personnel that will manage the web-application
  1. Internet connection – Lag or loss of internet connection may lead to a slow or complete stop to the processes that are being done on the web-application within the barangay. This may cause

This is a severity 3 risk as it only has minor damages to the barangay such as slow processes or even a complete stop in the processes within the web-application but not to the whole barangay.

The risk mitigation actions that the barangay may take are:

* + 1. Usage of a better and faster internet or finding a better ISP (Internet Service Provider).

# Vision of the Solution

The web application aims to provide an online service that takes on document requests and a ticketing system for inquiries to the community of the barangay.

## Vision Statement

The Barangay South Signal Village heavily relies on paper. Most of their records and documents are stored in physical file cabinets, making their client wait for minutes that delay client service and their data being unsecured.  This project purpose is to Integrate its current system into the digital setting by making a web application that provides information about the barangay and online service/s for their community in a more efficient, effective, and transparent way.

## Major Features

**For Residents:**

1. Residents can view the posted announcements of the Barangay South Signal Village on the homepage.
2. Residents can see the Barangay South Signal Village’s Profile in the About Us page including the history of the barangay, mission, vision, demography, and the organizational chart of the barangay officials.
3. Residents can check the contact information of the barangay in the Contact page such as the barangay hotlines and emergency hotline. It also includes the embedded Google map of the Barangay South Signal Village Office that can be used for tracking the barangay's location.
4. Residents can view the information of all available documents that can be requested manually including how much it will cost, instructions for manual request, estimated time of the process, and the requirements needed.

**For Registered Residents:**

1. Residents can request barangay documents or rent a barangay facility online without personally going to the barangay. After the resident submits his/her request online, the web app will send a message or email notifying his/her application, including the tracking key of his/her request.
2. Residents can inquire and report any problem or incidents within the vicinity of the barangay by submitting a concern.
3. Residents can track the status of their requested documents and submitted concerns by inputting the track key given by the system and can see all his/her transactions using his/her barangay account.

**Barangay Captain:**

1. Barangay captain can view the generated analytics report about:
   1. List of Document Request
   2. List of Rent Request
   3. List of Submitted Concern
   4. List of Resident Accounts
   5. List of Barangay Employee Account

**Administrator:**

1. The administrator can access and view the Barangay Employee Database.
2. The administrator can create/register barangay employee accounts to the system.
3. The administrator can modify/update the profile of any barangay employee accounts to the system.
4. The administrator can deactivate and re-activate any barangay employee accounts to the system.
5. The administrator can access and modify the Barangay Web-App Database.

**Barangay Secretary, Barangay Request Manager, and Barangay Concern Manager:**

1. The Barangay Secretary and Barangay Request Manager can access the Request Database.
2. The Barangay Secretary and Barangay Concern Manager can access the Concern Database.
3. The Barangay Secretary and Barangay Request Manager can process the list of requests from the resident’s profile.
4. The Barangay Secretary and Barangay Concern Manager can process the list of concerns from the resident’s profile.

## Assumptions and Dependencies

The assumptions that the team have made when conceiving the project is the following:

* The web app will include a chat bot that will handle inquiries from the users
* The web app will include a scheduling system
* The web app will include online payment for document requests

The dependencies of the project are the following:

* Specific Technologies:
  + Laravel
  + MySQL
  + Blade.php (HTML, CSS, JavaScript)
  + Cloud-based server

# Scope and Limitations

The system is only limited to the Barangay South Signal Village residents. The Web Application will contain substantial information about the barangay such as an organizational chart, history, demography, mission, vision, and hazard map.

## Scope of Initial Release

|  |  |  |  |
| --- | --- | --- | --- |
|  | **RELEASE 1** | **RELEASE 2** | **RELEASE 3** |
| **MAIN WEB APP** | * Homepage * About Us Page * Contact Page * Safety Section |  |  |
| **RESIDENT DASHBOARD** | * Registration * Access to Resident Dashboard * Modify Profile | * Request Document * Receive Tracking Key * Track Request | * Submit Concern * Track Concerns |
| **BARANGAY CAPTAIN DASHBOARD** | * Access to Barangay Captain Dashboard | * View Initial Analytics Report | * View Analytics Report |
| **ADMINISTRATOR DASHBOARD** | * Access to Administrator Dashboard * Add Barangay Employee * View Barangay Employee * Edit Barangay Employee * Deactivate Barangay Employee |  | * Manage Web Application |
| **BARANGAY SECRETARY DASHBOARD** | * Access to Barangay Secretary Dashboard | * Receive Requested Documents * View Requested Documents * Process Requested Documents | * Receive Submitted Concerns * View Submitted Concerns * Process Submitted Concerns |
| **BARANGAY REQUEST MANAGER DASHBOARD** | * Access to Barangay Request Manager Dashboard | * Receive Requested Documents * View Requested Documents * Process Requested Documents |  |
| **BARANGAY CONCERN MANAGER DASHBOARD** | * Access to Barangay Concern Manager Dashboard |  | * Receive Submitted Concerns * View Submitted Concerns * Process Submitted Concerns |

## Scope of Subsequent Releases

The team has currently finished Release plan 1 and is working on Release plan 2. The prototype is currently 60 – 70% done and the progress on release plan 2 is estimated to be 70 – 80%. The major feature that will be deferred to a later release is release plan 3, Release plan 3 includes the analytics report, concern submission and concern management.

## Limitations and Exclusions

The stakeholder can expect new tabs or options in the web app depending on the request of the client and if the team wants to improve/change something in the web app.

# Business Context

## Stakeholder Profiles

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Stakeholder*** | ***Major Value*** | ***Attitudes*** | ***Major Interests*** | ***Constraints*** |
| *Barangay Captain* | *increased revenue*  *quick access to data*  *secured data* | *Highly receptive, but expects high usability and functionality* | *Better functions and features compared to other barangay websites.*  *Digitalized processes*  *Security of data*  *Easier to access the data* | *Little knowledge in this kind of technology* |
| *Barangay Employees* | *Easier and more efficient way to handle processes*  *Quick to access data*  *Secured data*  *Improved Productivity* | *Highly receptive, but expects high usability and functionality* | *Digitalized Processes*  *Security of data*  *Easier and automated processes*  *Less errors regarding the data* | *Increase in workload*  *Needs training* |
| *Resident* | *Less physical interaction*  *Less processing times*  *Secured data* | *Sees the product to make transactions in the barangay easier, transparent, effective, and more secure.* | *Faster processing time*  *Less physical contact*  *Security of data*  *Timely announcements*  *Digital Transactions* |  |

## Project Priorities

This is the list of project priorities of the Barangay South Signal Village Web App:

* One of the important tasks for this project is the website's debut because it is the major deliverable and the main criteria by which it will be evaluated.
* Before the website can be made accessible to the residents, any bugs that were found during testing must be fixed.
* For the best user experience and overall success, it is crucial to make sure the website functions properly and loads swiftly.
* Release the web application to the public on time so that the team can determine how successful the website is.

## Operating Environment

The Barangay South Signal Village will use the web application, and its users are only within its vicinity. An online service such as online document/rent requests, sending concerns online to the barangay, and various announcements and information from the barangay will be the primary purpose of the web application, so it will be the main reason the constituents will use and access it. Since the project is a web app-based system, it can be accessed by the residents and the barangay employees through different devices with an internet connection and a browser to open. The team plan for deployment for the web app is to host it on the cloud-based, which means that all the data used in the web app will be stored on the cloud storage.