G4
Empowering Barangays

G4 Project Proposal

Prepared for: Department of Interior of Local Government, Department of Agriculture, DOLE, National Liga ng mga Barangays, Public, and other government agencies.

Project Cost: P 0.00 with FREE Lifetime maintenance

Scope: Entire 41,948 Barangays of the Philippines.

Prepared by: <u>Ephraim Umpan</u>
                    Computer Engineer / G4 Sole Developer

Proposal #: 01-2022

Dated: July 5, 2022

Email: godprovidesg4@gmail.com

What's Inside?

Cover Letter
Project Proposal
User Guide (download at www.g4system.online)

DEPARTMENT OF AGRICULTURE
OFFICE OF THE SECRETARY
RECEIVED
JUL 05 2022
BY: Raymond Margarito

Received by:

_____
Fullname / Date

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July 5, 2022

Atty. Benjamin "Benhur" Abalos, Jr.
Secretary
DILG

Dear Secretary,

Please find enclosed a detailed G4 Barangay System proposal with the user guide manual for your kind consideration. I am aware that creating client-oriented software takes a mixture of technical excellence and clear communication, and I am certain with my skills and expertise, I can ensure you receive both. I know that an innovative and affordable software automation proposal needs an outstanding delivery which is both on time and with zero cost.

Based on my experience as the youngest formerly elected Barangay Chairman during my time and an elected SK Chairman at Barangay Balabag, Kidapawan City, fifteen years ago, I have already witnessed the problems within my Barangay and possible in other Barangays also in the Philippines regarding keeping records and serving our people efficiently, which may somehow hinder our country's progress and development. I strongly believe that the progress and developments of a nation must start from the bottom and ascend to the top management in the government.

I fully understand the importance of maintaining trust and confidence among our people, especially on having a transparent government through delivering real and easy access of information to our local government units, which they need to know on time, as this will build trust and confidence in our people. For me, a progressive and developing nation must have an ecosystem that benefits both the people and our government. However, as former elected Barangay official, I can still see until now that the majority of our Barangays, especially the Barangays from remote areas in the Philippines, are still using this messy and costly recording in blotter record books, requiring and the printing of a lot of papers for clearances, which adds expenses on our government.

To avoid being biased to all of the existing e-Barangay Systems that I found on YouTube, Google, DOST e-Barangay System projects, and even in our DICT website and Department of Information and Communications, I already seen their e-Barangay System, but I find them all unsuitable for twelve reasons:

1. All of their Barangay Systems are expensive.

2. They all have the same complex design.

3. The users for their systems are all limited to Barangay officials and staffs only and no user accounts for the people.

4. They all have same functions, which we call it CRUD in our part as programmers, which is short for Create, Read, Update, and Delete Data.

5. Their source codes are not encrypted.

6. Their e-Barangay System is not so flexible from offline to online.

7. Their system is not user friendly and too difficult to set-up as they are all created on web-based platform meaning they are still going to use local server such as wamp and xampp when setting it up as an offline.

8. Their system is not likely developed based on the actual needs of the people.

9. No Barangay marketplace for people's product.

10. No meeting, messaging, and Zoom-like video calls and messaging system.

11. Automated maker for ordinances, resolutions, and AIP (Annual Investment Plan) and BDP (Barangay Development Plan) template.

12. No automated job assistant.

Now, kindly allow me to present beauty of my G4 Barangay System:

1. Since I solely hardcoded G4 Barangay System, I will be offering it for free for all Barangays in the Philippines.

2. The G4 Barangay System has very a unique and user-friendly design.

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9. The back-end of the G4 Barangay System is already designed and has the Barangay marketplace feature ready. The Barangay marketplace inside the G4 Barangay System will help our people, especially our famers, in selling their products using the G4 Platform.

10. The G4 Barangay System already has video conferencing, messaging, and meeting back-end features ready. These can be enabled in updated and higher version 4.1 soon.

11. There is already back-end ready to automate Barangay budgeting, and there is a template ready for resolution and ordinance making.

12. With the G4 Barangay System, employers may coordinate the Barangays with their job vacancies and the system will automatically match the Job requirements to the profile of the people thereby notifying them automatically about the Job vacancies through their dashboard, SMS, email notifications.

I believe that this G4 Barangay System project can be implemented nationwide through an executive orders, ordinances, and memorandum from DILG.

The G4 Barangay System was designed and created to exist for a LIFETIME, meaning that people can encode their information once, and whenever there are new administration members brought on, the system still exist and can run for a lifetime without further intervention from its developer. The swapping of every brand-new Barangay officials can be done in just few clicks. There is no need to re-encode the information repetitively. QR code clearances also can only be generated once and can be used and verified for a lifetime both offline and online.

One of my goals in developing the G4 Barangay System is to provide a high-tech, automated system for all Barangays in the Philippines, even in the most distant and remote Barangays, for free with lifetime support and maintenance, as I know that the majority of Barangays in the Philippines wanted it but cannot afford it. Additionally, there is no more need to print clearances and extract blotters on traditional paper. People will just take photos of the QR codes of their clearances, blotters, and personal information generated from the system and can use it for a lifetime and can be verified offline and online.

One of the future features in G4 Barangay System is that whenever a person is jobless, the system will automatically apply for any vacant job for him that matches his/her qualifications without the person's intervention anymore. Meaning, a person may just relax and just let G4 Barangay System search and apply for his job. When that matching is done, an employer will call the person. Both the employer and the applicant have a win-win situation here as both of them will just relax while the system does the hard work. I also lost my Job last pandemic crisis and it was so hard which made me depressed and hopeless during that time.

In addition, the G4 Barangay System will automate preparation of all Barangay budgeting for all Barangays. Compared before where Barangays make a lot of mistakes in preparing budgets due to fact that they just manually input it in excel. The system also will have resolution and ordinance template in the future.

G4 Barangay System will also have its own Barangay marketplace inside the platform, where people can buy and sell crops such as sweet potatoes, bananas, other products, which can now be sold on all of the registered G4 users anywhere in the world.

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Very truly yours,

 EPHRAIM UMPAN
 Computer Engineer/Mindanawon
Former IT Manager/ Software Engineer
Proponent/G4 Sole Developer
Former Barangay Chairman
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July 5, 2022

His Excellency Pres. Ferdinand Romualdez _Marcos Jr._
President/Secretary
Department of Agriculture

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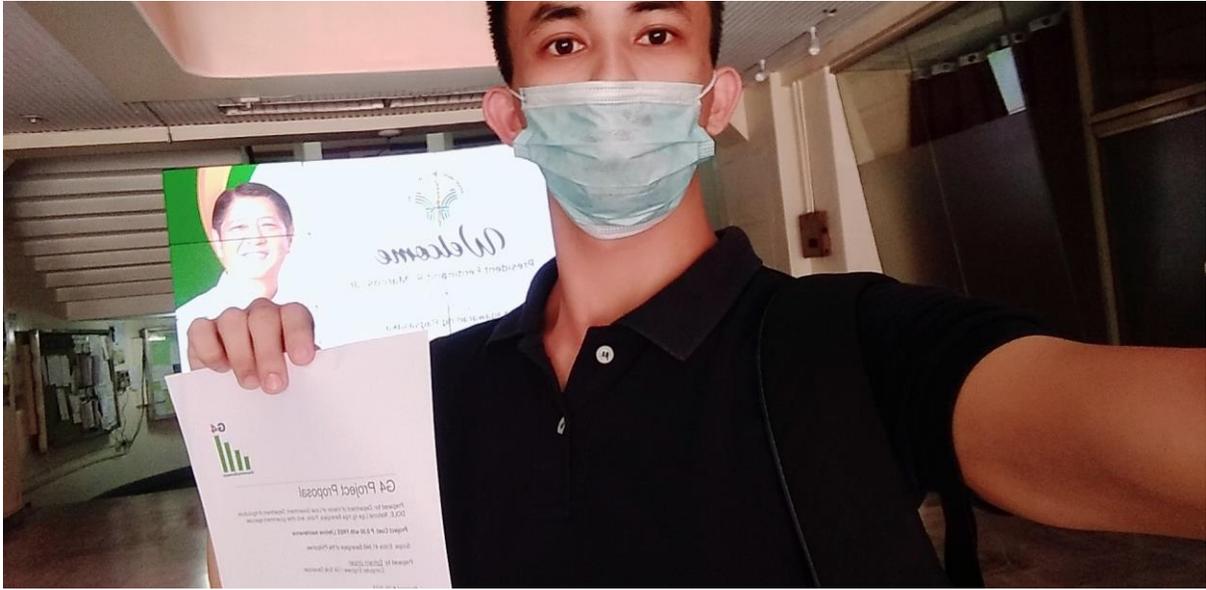
Very truly yours,

EPHRAIM UMPAN
Computer Engineer/Mindanawon
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DILG Quezon City Receiving Area

DILG Quezon City Receiving Area

Department of Agriculture Quezon City Circle

Contents

Needs/Problems

This G4 Barangay System project proposal aims to provide lifetime solutions to one of the long-time problems in all of the Barangays in the local government unit of the Philippines, which is transparency of information to the people, keeping people's records on blotters for a lifetime, and making G4 Barangay System as a means to market Barangay goods and services through making a Barangay marketplace inside G4 Barangay System software. It also aims to solve the problem of increasing unemployment rates of our country by having an automated job search and job application inside the system for free with lifetime maintenance.

If you are going to all Barangays in the Philippines now, especially in the most distant and remote areas, the majority of them still do not have or cannot afford an automated Barangay System that sticks them in traditional blotter record books and manually inputs the records of their constituents in Microsoft Word or Microsoft Excel, which as we all know from experience, these programs are not secure and could lose all the information from time to time.

It is also noted that people can still get Barangay clearances even if they still have pending criminal records in the Barangays nowadays, which is not good.

In addition, the printing of clearances onto paper would cost a lot of money to our national government. Just imagine if there were 100 people in a Barangay. That means 100 Barangay clearances would be printed in a day. Multiply that to 41,948 Barangays now in the entire Philippines, and that will also cost our government around P 4,194,800, or P 4.2 million pesos, in just one day. Going paperless would save enough money to help alleviate the country's poverty.

To summarize, the G4 Barangay System aims to solve current problems of our country regarding the issues of transparency governance in local government, the increasing unemployment rates via an automated job search and auto-apply feature, providing livelihood for all Filipinos anywhere in the world via Barangay Marketplace feature, and many other additional features that the sole developer believes can help solve the country's problems.

Goals/Objectives:

G4 Barangay System aims to provide a unified electronic Barangay System for all Barangays in the Philippines, especially in its remote Barangays for FREE with lifetime maintenance.

It also aims to provide a transparent government to the people and lessen the cost of printing Barangay documents on paper.

Procedures/Scope of Work

Phase One will be a proposal to provide G4 Barangay System to all, Barangays in the Philippines especially remote Barangays, for FREE.

Phase Two will be information dissemination on distributing the G4 desktop installer to all Barangays in the Philippines, which can be downloaded on www.g4system.online for FREE together with its user guide manual.

Phase Three will be the development and releasing of G4 Barangay System version 4.1 the Barangay marketplace, video conferencing, and messaging system inside the G4 Barangay System platform. Provide the G4 Barangay System Android app, IOS app, and free data.

Phase 4 is the making of Barangay automated machines (optional).

Roadmap

	Description of Work
Phase One	Proposal of G4 Barangay System to the National Government
Phase Two	Provide FREE G4 Barangay System desktop installer with user guide manual and online hosting for FREE including training and tech supports for lifetime from its own developer.
Phase Three	Development and releasing of G4 Barangay System version 4.1 the Barangay marketplace, video conferencing, automated job finder system, and messaging system inside the G4 Barangay System platform. Provide the G4 Barangay System Android app, IOS app, and free data.
Phase Four	Making of Barangay Automated Machines where people can get their Barangay documents anywhere like ATMs (optional)

Budget

	Description of Work	Anticipated Costs
Phase One	Provide FREE G4 Barangay System desktop installer with user guide manual and online hosting for FREE.	**P 0.00** FREE with lifetime maintenance services.
Phase Two	Providing FREE G4 desktop with user guide installer to all barangays in the Philippines.	**P 0.00** FREE with lifetime maintenance services.
Phase Three	Development and release of G4 Barangay System version 4.1 the Barangay marketplace, video conferencing, and messaging system inside the G4 Barangay System platform. Provide the G4 Barangay System Android app, IOS app, and Free data.	**P 0.00** FREE with lifetime maintenance services.
Phase Four	Making of G4 Barangay automated machines	Optional
	Total	**P 0.00 FREE with Lifetime maintenance services.**

Note: This G4 Barangay System Project proposal is FREE with Lifetime maintenance service.

Hacking Prevention Steps

In order to prevent hacking of the G4 Barangay System, all of the general data will be stored with encrypted source codes and database on the desktop application. And the transferring of data online can only be done by uploading the summary of encrypted data and from there it can be distributed to other platforms such as Android app, IOS app, free data, and Barangay automated machines. No other person except Ephraim Umpan, the sole developer can modify the source codes and its database.
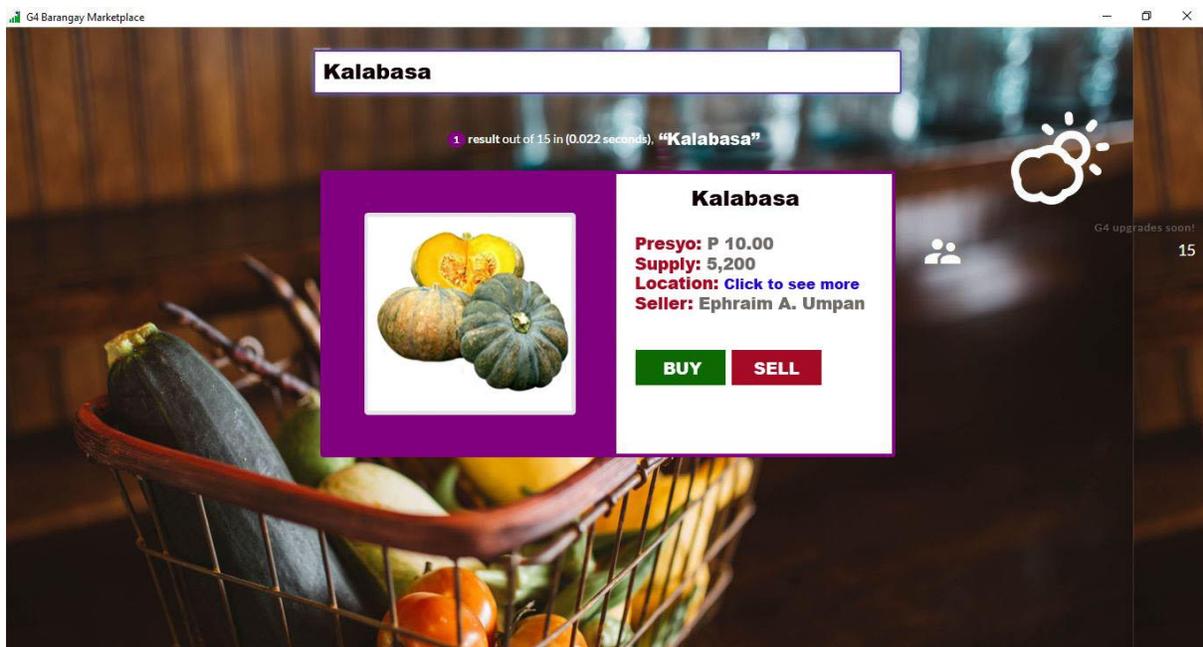
The G4 Barangay System was created for a lifetime usage, even if there will be no more intervention from the sole developer, as all of the features and troubleshooting have already been incorporated into its user guide manual. The system was designed to avoid repetitive inputs of information, meaning, once a user is registered and a new barangay administrator wins thereby having a shift in all positions. The user can just transfer the position to other user in the control panel. See the user guide for more information.

Evaluation

There will be monthly evaluation of every Barangays user's experience and will be addressed their concerns immediately and for free.

Barangay Marketplace

People can now buy and sell their farm products like eggplant and squash anywhere in the world.

AUTOMATED JOB FINDER AND AUTO-APPLY FEATURE

This feature will help solve the increasing number of jobless people, for they will no longer need to apply for a Job. They can simply enable the auto-apply feature in the G4 Barangay System. Then, the system will match their qualifications and inform the employer of the potential candidate. After that, an employer will click the hire button.

About Ephraim Albacite Umpan

Ephraim Umpan belongs to the indigenous group of Obo Monuvu at the foot of Mt. Apo and is a Computer Engineer by profession who has also taken an AB Political Science degree at the University of Mindanao, Davao City, and Bachelor of Laws from Ateneo de Davao University. He was elected as the Youngest Barangay Chairman after he completed his three year term as an elected SK Chairman of their Barangay and began to hard code a Barangay water system when he was still an SK Chairman which could monitor the payments made by his people which the later was upgraded to what is now G4 Barangay System. Aside from that, he has also created Barangay Genius Kids, an offline educational games installer based on flash programming that is used to enhance educational needs for the children in his Barangay.

He is considered to be a flexible man that constantly updating his skills from being a graphic designer, laptop/computer technician, photocopier technician as well repairing photocopier brands (such as Konika, Bizhub, Dialta, Ricoh), animator, computer programmer, politician, farmer, professor, janitor, supervisor, manager, forex trader with 3 months completed training certificate, blockchain developer, crypto trader, stock trader, and salesperson.

He was also a former Engineering professor and senior high school adviser at STI Global City Manila. Also, he was a former IT Manager in a Switzerland based Tech Company. He was also a former call center agent via chat and voice, handling accounts as tech support for online licensing exams for universities and schools in the U.S. and other parts of the world at PSI Ortigas, Manila.

While in college, he was elected as the Supreme Student Government President and was able to contribute to the developments to the students. He co-created the Student Automation System during his time, which helped the students access their records instantly anytime.

He has also worked before as a Software Engineer in one of the e-commerce companies in Japan, which are considered to be the world's most high technology today. At present, he's co-founded start-up tech companies which are based in the U.S. and partnered with businesses in Israel and the U.K.

Lastly, he is currently working now as Tech Support for the TechieYouth Corporation a foundation in New York, U.S., that teaches technology to youth around the globe with free allowances.