



## AN ONLINE SERVICE PLATFORM FOR PEST EXTERMINATION AND CONTROL SERVICES

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### **Abstract**

We want to make it easy for you to pick a great exterminator. From mosquito and termite control to bed bug and pest control, they have a great deal to get you started. Providing the continuing services for pest control solution to both residential and commercial establishments. The company that offers safe and effective pest extermination service guaranteed. Empowered by service specialists with years of knowledge and experience, they have centered themselves as a customer-friendly company, providing green solutions to your pest problems. Choosing a Pest Control Company shouldn't be hard— let's make it easy for you to get started with their special offers. View their profile with lots of feedbacks, and make an appointment. Take back control of your home. Know more about their Pest Control Services and avail the best suited services. The purpose of removing any kind of pest from your home, garage, or yard is to keep you safe and healthy.

**keywords** — pest control services, commercial and residential

## **1 Introduction**

In spite of advertising their services through social media or any type of medias. You still have the struggle of what company you can trust without knowing any feedback or proof that they have a great service history.

We can see some Pest Control Providers but much better to know their service prices first, after the service is it worth to pay? Discovering pests living within your home is unnerving and frustrating. The process

of locating, identifying, and carefully removing them is often challenging and time-consuming.

We believe that every family should feel comfortable and safe in their own home. Rats, mice, ants, and termites destroy this atmosphere by encroaching on your home and destroying your property. This study conducted basically to contribute important to make sure the pest control company you choose is competent, and reasonably priced company. Whether you want a short term treatment for your property or would prefer the

reassurance of an annual contract for either your home or business, then the Council's Pest Control Service can help you.

The Pest Control Service is able to offer residents, any business or property management company a range of services to help with an existing pest problem, or to provide preventative measures to ensure infestations are detected and dealt with before they pose a threat to clients, staff or your stock.

The discovery of the study indicates that the pests makes even more problems for humans. Pests are kind of overachievers that way. Some of these problems can be a major annoyance. Every kind of common pest in Cebu City can do its own unique form of damage to your home and health.

It is important to provide quality Pest Control Provider to both residential and commercial establishments. There are a number of questions that homeowners can ask to be sure that they need the assistance of a Pest Control Company. With the help of pest control methods and products, you can easily safeguard your family and also your belongings from the dangers that pesky insects bring. Keep the health in mind.

## 1.1 Objectives of the Study

### General Objective:

The main objective of the study is to design and develop a web and mobile application for pest extermination services.

### Specific Objective:

1. To develop a mobile application that would enable:

#### Pest Control Provider

- To advertise their type of services.
- To view client's feedbacks.
- To confirm booking schedules.

- To create and manage their account.

#### Clients

- To view Pest Control Provider for inquires and request for service.
- To request booking schedule.
- To create and manage their account.
- To post ratings and feedbacks.

2. To develop a web application that would enable:

#### Pest Control Provider

- To accept clients requested schedule.
- To create and manage their account.
- To confirm booking schedules.
- To generate summary report.

#### Clients

- To view Pest Control Provider inquires and request for service.
- To give feedbacks.
- To create and manage their account.

## 1.2 Literature Survey

[1] In this paper, Market for Pest Control Services has been witnessing growth due to the growing infestation of pests within the public places mainly commercial buildings, offices and industries as well as stricter laws and regulations mainly among the developed countries to maintain hygiene and safety from pests. This has contributed to the growing demand for pest control services globally.

[2] Despite their popularity and extensive use, pesticides serious concerns about health risks arising from

the exposure of farmers when mixing and applying pesticides or working in treated fields and from residues on food and in drinking water for the general population have been raised. Within their context, pesticide use has raised serious concerns not only of potential effects on human health, but also about impacts on wildlife and sensitive ecosystems.

[3] They stated that pesticides started largely as just “spray and count” for evaluating effectiveness. This era was quickly followed by curiosity and then a critical need for understanding what they do to people, crops, and the environment (pesticide toxicology and environmental toxicology) and how they work on the pest.

## 2 Proposed Work

### 2.1 Program Workflow

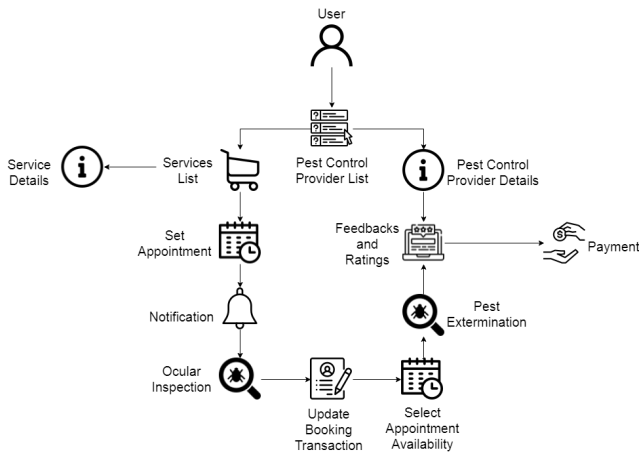


Figure 1: Program Workflow - User

Once the Client is already registered to our system. They can view the listed Pest Control Provider, every Pest Control Provider has their own services with details and prices. The User set an appointment for ocular inspections, once the Pest Control Provider accepted the User’s request they will notify them. Once they are done in inspecting their problems, they will

update what the User inputted in booking details and select schedule from the Pest Control Provider’s availability for final pest exterminations. After exterminating pest, they can give feedbacks and ratings through mobile. And finally your payment.

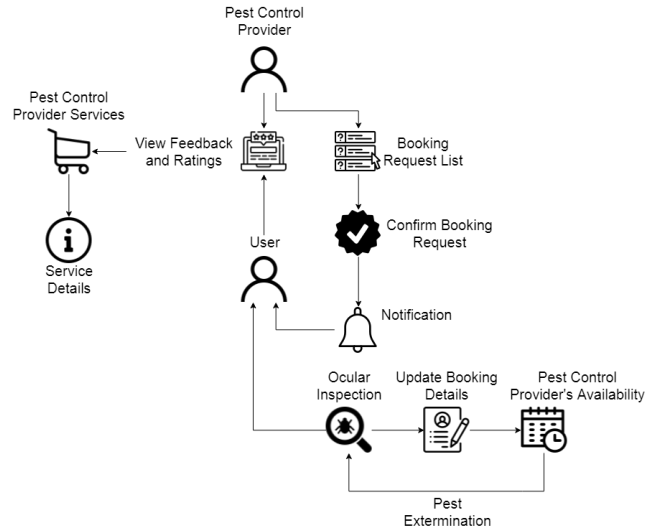


Figure 2: Program Workflow - Pest Control Provider

Pest Control Provider can view client’s feedback and ratings from after service. Pest Control Provider have their also different services with details and prices. They are the ones who will approve their client’s request ocular inspections, once they are done inspecting they will update client’s booking details and select new appointment through mobile – the availability of Pest Control Provider for final Pest Extermination.

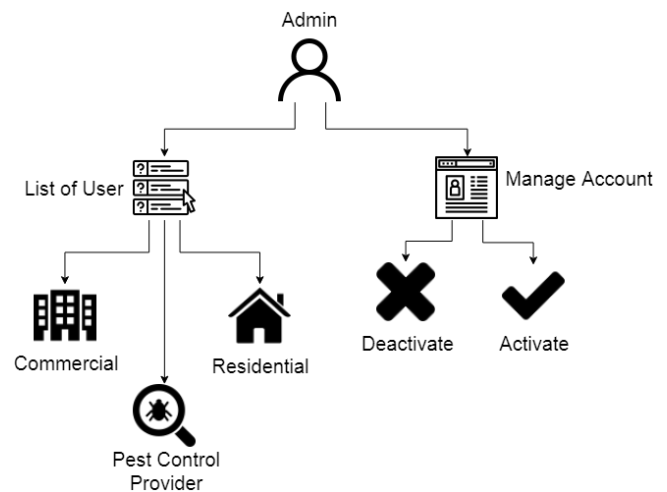


Figure 3: Program Workflow - Admin

Pestterminatr will be the one who will manage their User's account by deactivating or activating account, and the list of their different Users.

## 2.2 Network Design

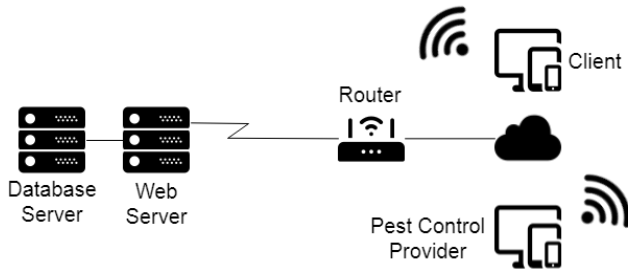


Figure 4: Network Design

Network Design is an iterative process, encompassing topological design, network-synthesis, and network-realization, and is aimed at ensuring that a new telecommunications network or service meets the needs of the subscriber and operator.

## 2.3 Program Specification

In this section, it is a program describing the computation. Its purpose is to be executed on a computer and perform that computation. Programs are written in a precisely and formally defined programming language. Here are the foundation for programming method to our system.

**Hypertext Markup Language (HTML):** It is a standardized system for tagging text files to achieve font, color, graphic, and hyperlink effects on World Wide Web pages.

**Materialize:** It is a UI component library which is created with CSS, JavaScript and HTML. It is created and designed by Google. Materialize CSS is also known as Material Design. It is a design language which com-

bines the classic principles of successful design along with innovation and technology.

**PHP Hypertext Pre-Processor (PHP):** It is a server-side scripting language designed for web development. It is a widely-used open source general-purpose scripting language that is especially suited for web.

**Sublime Text 3:** It is a proprietary cross-platform source code editor with a Python application programming interface (API). It natively supports many programming languages and markup languages, and functions can be added by users with plugins, typically community-built and maintained under free-software licenses.

**Eclipse:** It is a free, Java-based development platform known for its plug-ins that allow developers to develop and test code written in other programming languages.

**XAMPP:** Stands for Cross-Platform (X), Apache (A), MariaDB (M), PHP (P) and Perl (P). It is a simple, lightweight Apache distribution that makes it extremely easy for developers to create a local web server for testing and deployment purposes.

## 3 Conclusion

To summarize, this system can help for you to easily select a Pest Control Provider to prevent and control the entrance of pests and predators and eradicate infestations in facilities housing or offices. For all their pest control services, inquire them. They are the ones who will provide pest management solutions to homes and businesses where you can request schedule for ocular inspection before the extermination, inquire their services, and give feedback to the provider. Pest Control Provider is also has the authority to advertise their services, and the one who will decide for your requested schedule.

Programmer	Modules	Pest Control Provider	Client	Administrator
	<b>Account Management</b>			
	Create Account	*	*	*
	Update Account	*	*	*
	Activate/Deactivate Account			*
	View Account	*	*	*
	Notification			*
	Total	1	1	1
	<b>Booking Management</b>			
	Create Booking		*	
	Cancel Booking		*	
	Confirm Booking	*		
	View Booking	*	*	
	Update Booking	*	*	
	Total	1	1	0
	<b>Feedback Management</b>			
	Rate PCP		*	
	Post Feedback	*	*	
	View Feedback	*	*	
	Update Feedback	*	*	
	Delete Feedback		*	*
	Monitor Rate and Review			*
	Total	1	1	1
	<b>Service Management</b>			
	Create Service	*		
	Update Service	*		
	Delete Service	*		
	View Service	*	*	
	Total	1	1	0
	<b>Service History Management</b>			
	View Service History	*	*	*
	Total	1	1	1
	Number of Modules per User	5	5	3
	<b>Total Number of Modules</b>	<b>13</b>		

Figure 5: List of Modules

## References

- [1] Laura Wood. *Global Pest Control Services Market: Trends, Opportunities and Forecasts (2016-2021) - Research and Markets* [Business Wire,] April 21, 2016.
- [2] Christos A. Damalas, Ilias G. Eleftherohorinos. *Pesticide Exposure, Safety Issues, and Risk Assessment Indicators*. [Int J Environ Res Public Health,]. May 2011.
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