

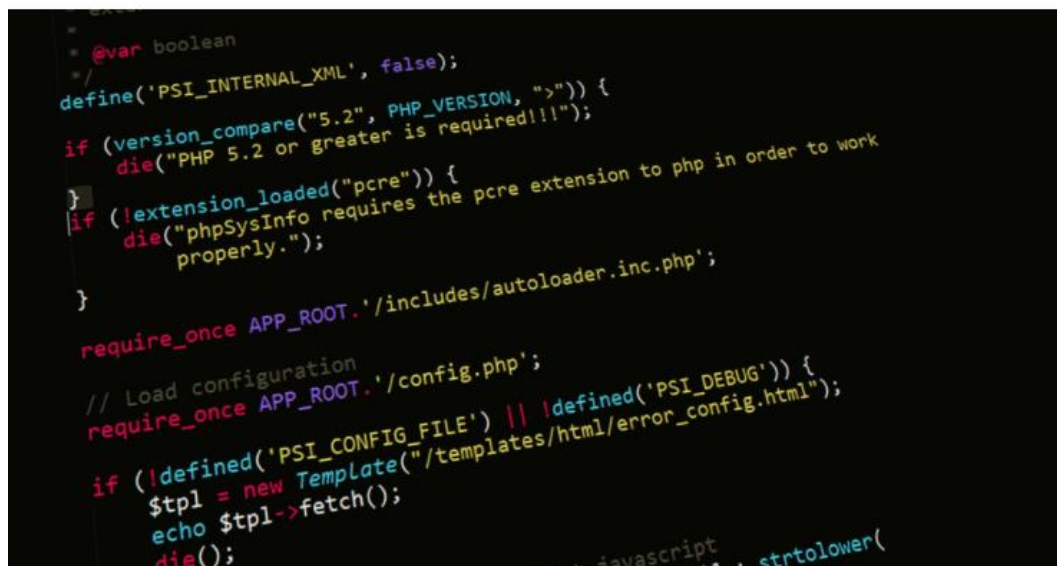
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Introduce

The project is a technology for renting homestays around Hanoi on a website platform. This website of ours is an intermediary website for homestay owners to post rental information here and those who want to rent a house can find suitable homestay on this website. We give priority to locations with West Lake view to see the West Lake or an overhead view to see the whole city and homestays in Hanoi Old Quarter area so that tenants can enjoy the atmosphere of the old Hanoi. In addition to homestays in the inner city of Hanoi, we also provide homestays in tourist areas around Hanoi such as Ba Vi National Park, Ham Lon Lake, We also integrate utilities around the homestay area such as motorbike rental, restaurant addresses and prices around the rented area.

This website is inspired by big hotel rental websites such as agoda.com, luxstay.com, but our website is a website for renting hostels in Hanoi area and many services other around the rental area.

The backend language of the website, we are deciding between NodeJs or PHP because I see PHP as a language that has been around for a long time, suitable for newbies like me. Moreover, because it has been around for a long time, the resources and modules are also very rich, suitable for my project.



```

    = @var boolean
    =/
define('PSI_INTERNAL_XML', false);

if (version_compare("5.2", PHP_VERSION, ">")) {
    die("PHP 5.2 or greater is required!!!");
}
if (!extension_loaded("pcre")) {
    die("phpSysInfo requires the pcre extension to php in order to work properly.");
}

require_once APP_ROOT.'/includes/autoloader.inc.php';

// Load configuration
require_once APP_ROOT.'/config.php';

if (!defined('PSI_CONFIG_FILE') || !defined('PSI_DEBUG')) {
    $tpl = new Template("/templates/html/error_config.html");
    echo $tpl->fetch();
    die();
}

```

Figure 1 : PHP language

NodeJs language also has advantages such as Fast processing speed thanks to non-blocking mechanism, can easily handle thousands of connections in the shortest amount of time. This is very suitable for an intermediary website like a homestay rental website.



Figure 2 NodeJs language

Regarding the methodology, the waterfall method is the method I choose for this project because it is a simple model, easy to apply, and the step-by-step process is clear. Easy to manage and maintain in a stepwise fixed and linear approach. Well-defined input and output criteria make quality control easy. Works well in small projects with clear requirements.

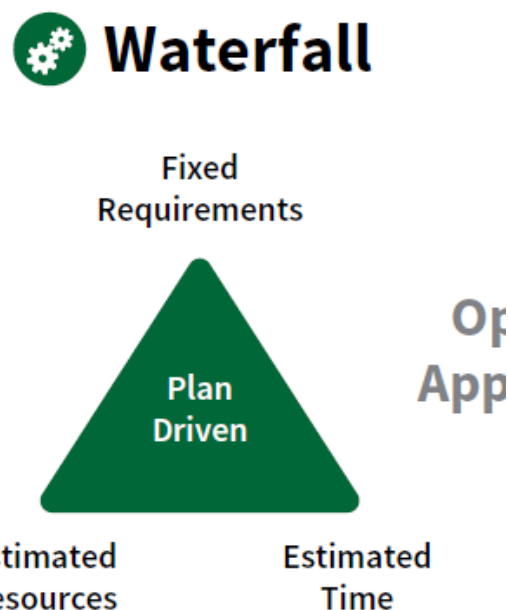


Figure 3: Waterfall method

Aim

The goal of the project is to provide an intermediary website for landlords and tenants. Tenants can be tourists, groups of friends or couples can choose to rent a homestay to enjoy the comfortable atmosphere that motels and hotels do not have. Landlords can post in the form of the website such as prices, pictures, accompanying services, The psychology of customers when renting a homestay is the conveniences around the area such as surrounding cafes or

beautiful photography locations around or surrounding restaurants, more than that. other services such as bicycle rental, motorbike rental, ...

Objectives

3.1 Understand the basics of websites, database

3.1.1 Activities:

- research the basics of the website
- research database

3.1.2 Deliverables:

- a report about basic knowledge of website and database

3.2. Activities

3.2.1 Activities:

- project development planning: wbs, Gantt chart

3.2.2 Deliverables:

- WBS
- Gantt chart

3.3. Design

3.3.1 Activities:

- create user case diagram and explain
- create database diagram and explain

3.3.2 Deliverables:

- a report about user case, database and all description
- ERD

3.4. Implementation

3.4.1 Activates:

- choose IDE
- code

3.4.2 Deliverables:

- project

3.5. Testing

3.5.1 Activates:

- test plan
- test case

- find bug
- fix bug

3.5.2 Deliverables:

- report about test plan, test case, some bug and fix bug

3.6. Evaluations

Activations:

- evaluations plan
- interview, survey
- for customers to try and evaluate the project

Deliverables:

- a report about result interview, survey and evaluate of customers

3.7. Conclusions

Activations:

- analyze the website and later modifications

Deliverables:

- a report about analyze the website and later modifications

Legal, Social, Ethical and Professional

4.1 Legal

Web-related laws are evolving rapidly and vary by country and region. Being a professional must keep abreast of important legal issues affecting businesses and clients. Do your research, stay informed on matters related to your work, and seek professional legal advice when necessary. A number of current and potential legal issues can affect to your Web development practice. The most important of these are: Anti-spamming laws, Intellectual property laws, International issues (Okaloosaschools.com. 2021).

4.2 Social

Users can know the address of the restaurant, the exact address of the homestay on google map. The lessor must post in the form of the website but have to wait for the admin's approval in case the posting is not in accordance with the regulations, which will affect the quality of the website.

4.3 Ethical

Ethics are a set of standards governing the conduct of members of a profession. Ethics establish basic values for responsible actions and practices within a professional community. Although there may be no punishment for violating ethical standards, some practices (such as spamming and sending viruses) are being written or will be written into law.

The generally agreed-upon ethical standards for Web professionals have developed from years of experience, and many have been inherited from other professions. Examples of ethical

behavior for Web professionals include the following: Do not send unsolicited bulk e-mail, or spam. Do not buy domain names that you do not intend to use (a practice also known as domain squatting or cyber-squatting). Do not knowingly spread malicious program code such as viruses or worms. Do not pass along chain e-mail messages, especially those that imply threats. Be honest with your customers, and do not overcharge for technical services that they may not understand (Okaloosa schools.com. 2021).

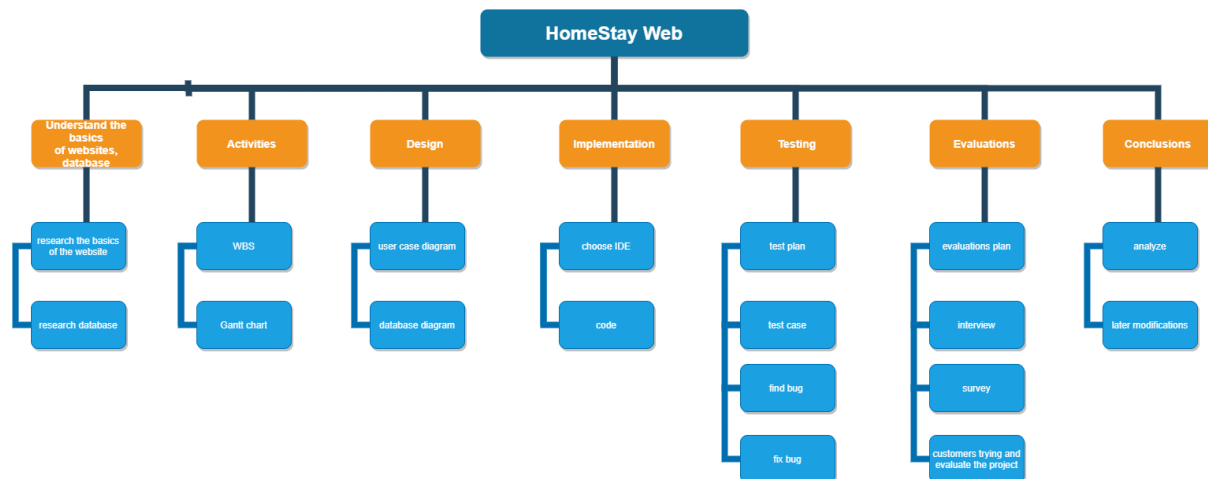
4.4 Professional

Tenant privacy will not be public such as phone number, home address, and some other information. When the tenant confirms the lease, the manager or lessor will know the name and phone number of the customer to contact.

Website is not allowed to sell customer information to 3rd parties for advertising, spam, fraud

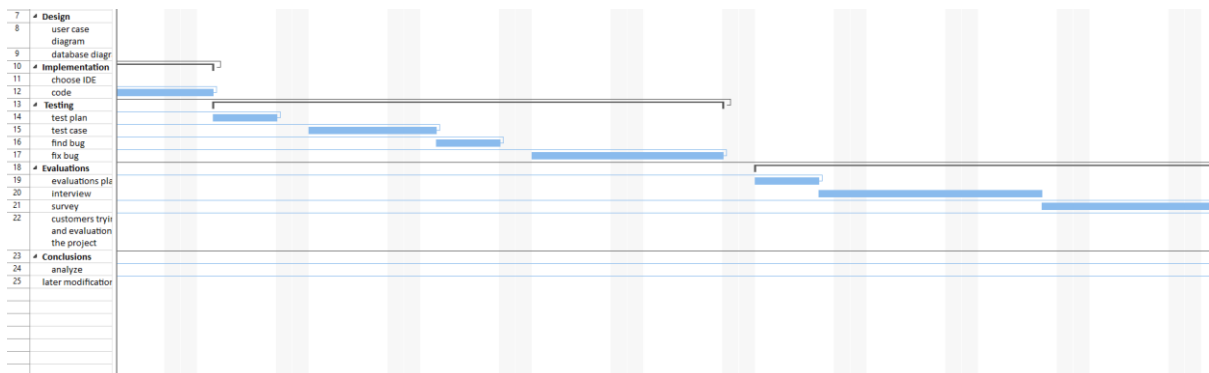
Plan

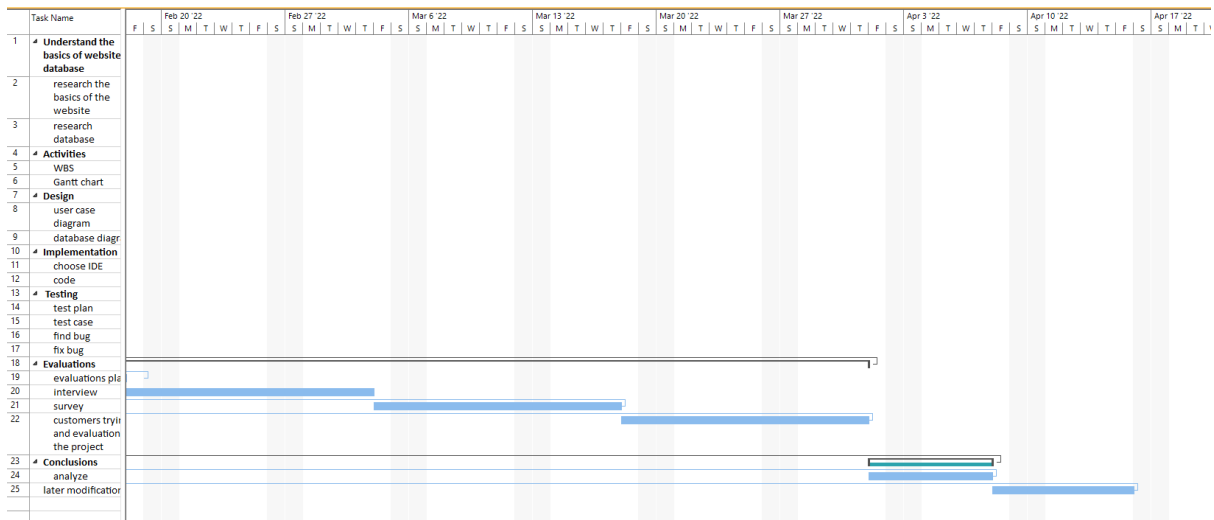
WBS



Gantt chart

	Task Name	Resource Names	Duration	Start	Finish	Work	P
1	➤ Understand the basics of websites, database		7 days	Mon 8/30/21 8:00 AM	Tue 9/7/21 5:00 PM	0 hrs	
2	research the basics of the website		3 days	Mon 8/30/21 8:00 AM	Wed 9/1/21 5:00 PM	0 hrs	
3	research database		4 days	Thu 9/2/21 8:00 AM	Tue 9/7/21 5:00 PM	0 hrs	2
4	➤ Activities		8 days	Wed 9/8/21 8:00 AM	Fri 9/17/21 5:00 PM	0 hrs	3
5	WBS		4 days	Wed 9/8/21 8:00 AM	Mon 9/13/21 5:00 PM	0 hrs	
6	Gantt chart		4 days	Tue 9/14/21 8:00 AM	Fri 9/17/21 5:00 PM	0 hrs	5
7	➤ Design		16 days	Mon 9/20/21 8:00 AM	Mon 10/11/21 5:00 PM	0 hrs	6
8	user case diagram		6 days	Mon 9/20/21 8:00 AM	Mon 9/27/21 5:00 PM	0 hrs	
9	database diagram		10 days	Tue 9/28/21 8:00 AM	Mon 10/11/21 5:00 PM	0 hrs	8
10	➤ Implementation		65 days	Tue 10/12/21 8:00 AM	Mon 1/10/22 5:00 PM	0 hrs	9
11	choose IDE		5 days	Tue 10/12/21 8:00 AM	Mon 10/18/21 5:00 PM	0 hrs	
12	code		60 days	Tue 10/19/21 8:00 AM	Mon 1/10/22 5:00 PM	0 hrs	1
13	➤ Testing		24 days	Tue 1/11/22 8:00 AM	Fri 2/11/22 5:00 PM	0 hrs	1
14	test plan		4 days	Tue 1/11/22 8:00 AM	Fri 1/14/22 5:00 PM	0 hrs	
15	test case		6 days	Mon 1/17/22 8:00 AM	Mon 1/24/22 5:00 PM	0 hrs	1
16	find bug		4 days	Tue 1/25/22 8:00 AM	Fri 1/28/22 5:00 PM	0 hrs	1
17	fix bug		10 days	Mon 1/31/22 8:00 AM	Fri 2/11/22 5:00 PM	0 hrs	1
18	➤ Evaluations		34 days	Mon 2/14/22 8:00 AM	Thu 3/31/22 5:00 PM	0 hrs	1
19	evaluations plan		4 days	Mon 2/14/22 8:00 AM	Thu 2/17/22 5:00 PM	0 hrs	
20	interview		10 days	Fri 2/18/22 8:00 AM	Thu 3/3/22 5:00 PM	0 hrs	1
21	survey		10 days	Fri 3/4/22 8:00 AM	Thu 3/17/22 5:00 PM	0 hrs	2
22	customers trying and evaluation the project		10 days	Fri 3/18/22 8:00 AM	Thu 3/31/22 5:00 PM	0 hrs	2
23	➤ Conclusions		5 days	Fri 4/1/22 8:00 AM	Thu 4/7/22 5:00 PM	0 hrs	2
24	analyze		5 days	Fri 4/1/22 8:00 AM	Thu 4/7/22 5:00 PM	0 hrs	
25	later modifications		5 days	Fri 4/8/22 8:00 AM	Thu 4/14/22 5:00 PM	0 hrs	2





Reference

Okaloosaschools.com. 2021. [online] Available at:

<https://www.okaloosaschools.com/fwbf/sites/okaloosaschools.com.fwb/files/users/anthonybryant/wds_v1.1_ssg_111.pdf#:~:text=The%20Web%20%28and%20business%20in%20general%29%20has%20many,developers%20in%20general%2C%20and%20upon%20CIW-trained%20Web%20designers.> [Accessed 1 November 2021].