**CPET329PA – Industry Practice**

**Project Documentation**

Computer Engineering Program

College of Engineering, Architecture and Technology

De La Salle University –Dasmariñas

Dasmariñas City, Cavite

Bryan G. Lazaro

1. **Methods Used in Developing the System / Software Product**

WordPress is an extremely effective and well-liked content management system (CMS) that has fundamentally altered how websites are developed and maintained. It was first introduced in 2003 and has since developed into an adaptable framework that enables people, companies, and organizations to develop exquisite websites, blogs, e-commerce storefronts, and much more.

WordPress stands out for its intuitive user interface and myriad customization options, which make it suitable for both newbie and expert developers. WordPress makes it possible for users to realize their creative visions without having a deep understanding of coding due to its user-friendly design and wide collection of themes and plugins.

The adaptability of WordPress is one of its main advantages. WordPress has endless possibilities to customize your site to meet your unique needs, whether you're trying to establish a personal blog, an online portfolio, a corporate website, or an online store. The platform allows you to present interesting and dynamic content to your visitors because it supports a wide variety of media types, including text, photos, videos, and audio.

Being an open-source program, WordPress is continually changing and gaining from the efforts of a large developer and enthusiast community. Regular updates, security fixes, and a plethora of resources, such as forums, guides, and documentation, are all made possible by this vibrant community. The fact that WordPress is open source further expands the platform's capabilities and opportunities by fostering cooperation and the development of many themes and plugins.

Whether you're a web developer, blogger, or an entrepreneur, WordPress offers a strong platform for quickly creating dynamic websites with lots of features. It is a top option for people and companies looking for a strong yet approachable platform to develop and maintain their online presence because of its user-friendly design, rich customization options, and robust ecosystem.

1. **Methods Used for Product Evaluation**
   1. **Functional Testing**

This testing guarantees that the hotel meets the user’s preference correctly. The features are evaluated by entering an input to the website and validating the date that the user booked. The method of functional testing focuses on the processing outcomes and not on how the processing takes place. It models the real use of the system but does not make assertions about the system structure.

**Booking Page**

* Shows the available rooms and room sizes.
* Shows the features that can be accessed in each room.

**Booking Details**

* Shows the customer’s name, email address, and phone number.
* Shows the booking date and confirmation number.
* Arrival and departure are displayed.
* Price and type of room booked.
* Pre-check-in and cancellation/modification requests can be done.
  1. **Usability Testing**

In this process, the design and reliability of the website is measured by gathering the users’ feedback as they utilize and perform tasks to the application. This testing gives us an idea on how we can improve the user experience depending on the user’s point of view.

* 1. **Security Testing**

This testing aims to determine a website's vulnerability and determine whether its resources and data are protected from potential invaders. Finding and fixing security flaws in web apps is essential to avoiding regulatory repercussions, fines, and loss of business due to the implementation of insufficient protection policies, as well as customer/user disinterest, website disruption, damage repair costs.

* 1. **Database Testing**

The database must accurately reflect every user input. The database testing includes tasks including confirming data validity, gauging data quality, checking performance, and assessing different operations.

1. **The Objective/s of the Proposed System/Software**

The reservation technology website that we are developing intends to provide online customers, especially newcomers to the online booking business, with an excellent and user-friendly platform where they may select their own hotel that is available and accessible to them with a variety of room types. The hotel management may modify the data that appears on the online booking dashboard, such as room availability, variety, pricing, and sample images.

The user can browse different hotels and categorize them by accessibility using a dashboard in the user interface. Every hotel includes a "book now" button on its navigation bar where customers may examine a variety of room kinds and prices that are only available at that hotel. The user can find more information on the booking details page, including the confirmation number and the booking date. When a reservation is made but not yet paid for, the user has the option to amend or cancel it. The hotel management can verify the payment and reserve the customer's room by clicking the upload button on the booking details page for a picture of the payment receipt (proof of payment). Thus, this web application will offer convenience not only to the customers but to the hotel management as well.

1. **The Prospective Users/Beneficiaries**

The target market for this proposed system is for those who are constantly traveling that don’t have time to book manually or look for hotels that are accessible for them. A lot of people who have been constantly travelling find it difficult to book a hotel that is near to their location or accessible for them.

1. **The Component of the Proposed System/Software**
   1. **General Features**

* *User-friendly website*

The most essential feature a booking system website must provide is its user-friendliness for it to become successful and new users will not be difficult to attain.

Poor user experience means a failed service. If a potential client has encountered difficulties using the website, then there is a chance that they may end up on the competitor's website.

* *Responsive Website on different device resolutions*

Most online users use mobile devices when they are booking online because it is more convenient. Thus, being both desktop-friendly and mobile-friendly is important. The capacity of a website to easily shift between a smartphone and desktop view according to the needs of the user, should be on the design criteria on the booking system platform.

Inability to develop a responsive and flexible user interface or basic functionality for eCommerce websites will have a negative impact on your business and clients will not be interested in using the application.

* *Search Box*

It enables the user to save time and find immediately the hotel they want to book, skipping through the sites and hotel they're not interested in or far away from their location.

* *Payment Methods*

Since hotel management can use their preferred payment method, this function is particularly suited to their preferences. The management shall be the exclusive recipient of all payments, and the business will not become involved in any disputes over payment arising between the hotel management and the client.

* *Security*

The management protects all user data, including Name, Contact Number, Address, Transactions, etc., by following all the procedures outlined in our Privacy Policy. We are making sure that both business and website visitors are protected.

* + - 1. **System Functions**

**User Interface for both Seller and Buyer:**

**Primary Landing Page**

* welcome page for the users.
* has navigation links for Home, List of Hotels and Contact information of the company.
* contains information about the website (About Us)

**User Interface for Management side:**

**Dashboard Page**

* presents sales report through graphs and charts.
* enables the management to monitor the booking details of each user and shows the most booked room in the hotel.

**My Hotel Page**

* contains all the room types added by the management and a profile navigation where he can view his hotel’s information.
* The hotel main cover page, hotel logo, store name, ‘About Us’ and footer cover can be seen here.

**Our Rooms Page**

* shows the list of room types added by the seller.
* contains add feature hyperlink which directs to Add Feature Page.

**Add Feature Page**

* where the management can customize and add more room variation according to its size and features.

**Pending Page**

* contains Pending Reservation Bookings and All Bookings table where the management can monitor and manage all his reservations by validating the customer’s payment and updating the reservation status.

**Settings Page**

* a page for viewing and editing some information about his profile, hotel, and payment.

**User Interface for Buyer side:**

**Book Now Page**

* has a table containing the list of all accessible hotels and their information such as name, location, average room prices and ratings.

**Booking Details Page**

* includes booking date and confirmation number of reservation.
* Arrival and departure of the customer in the selected hotel.
* Customer’s identity such as name, email address, and contact number.
* Cancellation/Modification Request button to cancel reservation or modify the reserved room.
* Room details and total balance of the customer.
  + - 1. **System Inputs and Outputs**

**A picture containing text, diagram, parallel, font

Description automatically generatedFigure 5.1.1.2.1.** Booking system website IPO Chart

The initial input for the system is the information taken from the hotel registration form. To gain access to all the functionalities of the website the hotel management is required to complete the registration form and create an account. Once registered all their data will be securely stored in the system’s database.

After creating an account, the hotel management must provide their login credentials, including their email address and password. These credentials will be verified within the systems database when a management staff logs in to the website. If a valid account is found and confirmed. An access token will be provided as output to grant access to their newly created account.

To commence proceedings effectively, it is essential for the esteemed management to set up an online hotel reservation system through inputting pertinent room details beforehand. An extensive form is provided for them to furnish specific information regarding each room's type classification, available amenities provided within it along with associated costs incurred thereof simultaneously considering its status of availability whilst ensuring a thorough yet concise description supported with vivid imagery through photographs made accessible as well.

In turn this valuable data showcases itself within our rooms page amongst other available listings thereby enabling potential clientele both vast informative options as well as informed decisions commensurate with their requirements sub-serving all within its capacities. Furthermore, reservations authenticated by management are immediately updated within the All-Reservations Table supplementing the pending page thus affording current reservation status outputs at any given time promoting clarity amongst clientele desiring this crucial information consequently holistically adhering to customer satisfaction whilst simultaneously fostering loyalty on all occasions anticipated accordingly.

Upon reservation confirmation, the customer will upload his proof of payment (input) which will be stored in the database. The payment confirmation status (output) will be updated through the approval of the hotel management.

* 1. **System/Software Development**
     1. **Specification**

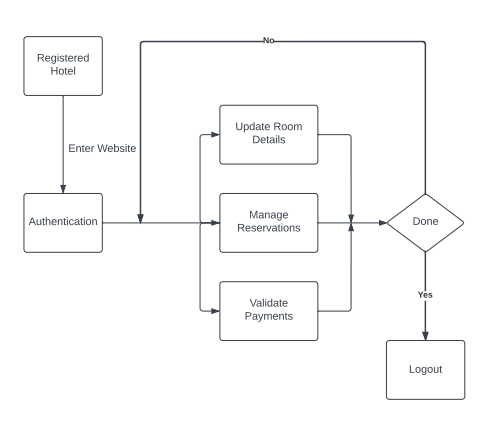
Our proposed system will be a booking system website that will help people who are constantly travelling and do not have time to look for a hotel in a new place for them that is accessible to their location. The main goal of this project is to provide a better and user-friendly platform for both customers and hotel management. The website will have two user interfaces: for management and for customer.

The system will be therefore designed to allow a user to perform the following functions:

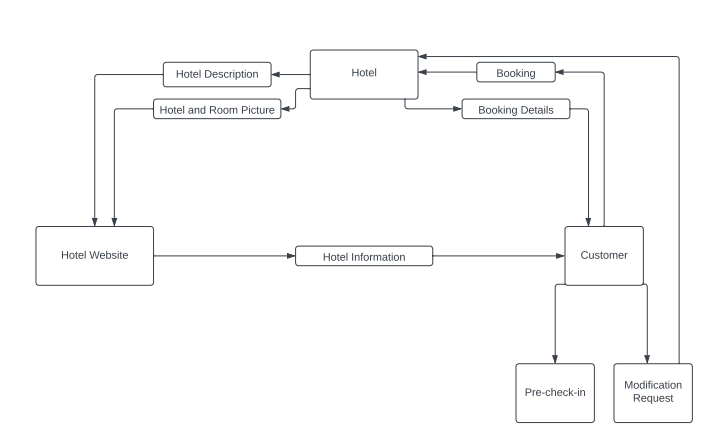
* + register
  + log on as a hotel manager.
  + add room details (management mode)
  + show/edit/delete the room information (management mode)
  + view and manage customer reservations (management mode)
  + validate the payment of customers (management mode)
  + add a preferred payment method (management mode)
  + edit some profile and hotel information (management mode)
  + search for hotels (customer mode)
  + view and visit a specific hotel (customer mode)
  + modify/remove a reservation (customer mode)
  + place a reservation in various hotels (customer mode)
  + select a payment method (customer mode)

There are certain limitations imposed on the hotel management's ability to change profile information as well as stored data. Personal settings grant permission solely for modifications related to password updates or making changes to phone numbers and email addresses. On the other hand, regarding hotel settings alterations can be made exclusively pertaining to descriptions, social media account links along with selection of themes or logos. On occasions where there is a necessity to amend information such as names or addresses, it is mandated that contact be initiated with our company. Fake management posing as designated representatives will be thwarted by enforcing a verification procedure prior to being granted access to modifying personal details available within the Booking Details Page.

To offer users utmost convenience the app will be designed in a manner that facilitates its usage across all devices. This will be achieved through optimizing the website for different screen resolutions. For an enhanced experience with maximum performance and functionality. We suggest utilizing Google Chrome, Mozilla Firefox, or Safari as your preferred web browsers when accessing the site.

* + 1. **Design**

**Figure 5.2.2.1. Management Use-case Model**

****

**Figure 5.2.2.2. Customer Use-case Model**

* + 1. **Programming**

The programming languages and tools used to develop the front-end and back-end of the booking system website are the following:

* *Hypertext Markup Language (HTML5)* – used in formatting the content layout of Web pages.
* *WordPress* – a platform used in creating a website that uses plugins and enhanced security protection.
* *Cascading Style Sheets (CSS3)* – used in designing and styling the content layout of Web pages. In this section, we used the CSS grid method which is the best practice for positioning and aligning the Web page content or elements.
* *JavaScript* – used to make the website functional and interactive for the user.
* *MySQL* – used in database management system of the website.
* *XAMPP* – allows us to work on a local server and test our website offline and by employing PHP code and our database (MySQL).
  + 1. **Security, Back-up**

To emphasize our unwavering commitment towards safeguarding your privacy we have established and put into effect a comprehensive Privacy Policy for our website. This policy mandates that users' personal identity information or transactional data can exclusively be shared with the entities they have engaged with and willingly provided such information to. Any third-party program lacking relevance in this context will not collect nor obtain your personal data without solicitation.

Our commitment lies in protecting confidential user information while minimizing any possibility for unauthorized access, data misuse, leakage, or modification. With comprehensive administrative and technological security measures in place we closely manage and monitor all records within our system. Enhancing the overall service provided on our website remains crucial as it directly reflects our dedication to maintaining corporate integrity.

1. **Weekly Progress Report**
   1. **Week One**

**Activity:** Double Checking dropdown buttons in Corporate Courses in Kenya and Laos domain.

**Report:** both countries have a dropdown button from Communication Skills Courses to Teamwork and Collaboration Skill Courses.

* 1. **Week Two**

**Activity:** Double Checking the United Kingdom domain, Updating Minor Errors in Sweden domain, Double Checking Course Fees in UAE domain.

**Report:** In the United Kingdom domain, Event Management Skills Training Course already has the correct brochure photo. In the Creating Brand Loyalty Training Course, it contains an incorrect size photo for the certificate. Lastly, on the Body Language Skills Training Course, there was an incorrect size of Value-Added Materials.

In the Sweden domain, rows 8-54 in the excel sheet where the webpage links were located has been edited. Row 21 has an error which is Page not Found.

In the UAE domain, rows 2-129 were double checked if the prices in the course fees are correct.

* 1. **Week 3**

**Activity:** Double Checking and Updating Minor Errors in Sweden Domain.

**Report:** In the excel sheet of Sweden domain that contains all the webpages, rows 55-201 were double checked and edited.

* 1. **Week 4**

**Activity:** Double Checking and Updating Minor Errors in Sweden domain.

**Report:** In the excel sheet of Sweden domain that contains all the webpages, rows 202-242 were double checked and edited.

* 1. **Week 5**

**Activity:** Double Checking and Updating Minor Errors in Sweden domain.

**Report:** In the excel sheet of Sweden domain that contains all the webpages, rows 243-305 were double checked and edited.

* 1. **Week 6**

**Activity:** Double Checking and Updating Minor Errors in Denmark domain and Site Speed Testing in Mexico, Sweden, Pakistan, and Kenya domain.

**Report:** In the Denmark domain, rows 7-212 in the excel sheet of Denmark domain where webpages are listed, were double checked, and edited. The webpages that I edited were rows 67, 90, 108, 111, 117, 119, 124, 139, 141, 161-171, 196-199, 201-203, and 205-212.

The site speed testing for Mexico, Sweden, Pakistan, and Kenya domain, a plugin was installed called wp-rocket that improves the loading time of the whole website.

* 1. **Week 7**

**Activity:** Double Checking and Updating Minor Errors in Denmark Domain.

**Report:** In the excel sheet of Denmark domain where all its webpages are listed, rows 215-305 were double checked and edited. The webpages that I edited were rows 249, 261, 266, 278-286, 290-295, and 298-305.

* 1. **Week 8**

**Activity:** Double Checking and Updating Minor Errors in Japan Domain.

**Report:** In the excel sheet of Japan domain where all its webpages are listed, rows 7-111 were double checked and edited. The webpages that I edited were rows 16, 17, 38, 48, 49, 52, 55, 59, 67, 90, 108, and 111.

* 1. **Week 9**

**Activity:** Double Checking and Updating Minor Errors in Japan Domain.

**Report:** In the excel sheet of Japan domain where all its webpages are listed, rows 114-215 were double checked and edited. The webpages that I edited were rows 117, 134, 139-141, 149, 161, 182, 189, 200, 204.

* 1. **Week 10**

**Activity:** Double Checking and Updating Minor Errors in Japan Domain and New Zealand Domain, Start Accomplishing the Research Output for our project in the Company and editing row 242 in the excel sheet of New Zealand, Qatar, South Africa, and Philippines domain.

**Report:** In the excel sheet of Japan domain where all its webpages are listed, rows 216-305 were double checked and edited. The webpages that I edited were rows 228, 230, 232, 245, 248-256, 2527-259, 261, 262, 264, 268, 273, 302.

In the excel sheet of New Zealand domain where all its webpages are listed, rows 7-30 were double checked and edited. The webpages that I edited were rows 8-30.

The Research Output that I accomplished in the company is about the progressive innovation of WordPress and how it helps start-up companies. It helps small companies and start-up companies by creating their own website with ease. It is a very user-friendly platform because it does not require high programming skills and does not need hard-programming skills.

* 1. **Week 11**

**Activity:** Double Checking and Updating Minor Errors in Qatar Domain.

**Report:** In the excel sheet of Qatar domain where all its webpages are listed, rows 7-30 were double checked and edited. The webpages that I edited were rows 11, 16.

* 1. **Week 12**

**Activity:** Double Checking and Updating the Course Price in Belize Domain and Accomplishing a WordPress Website for the Final Output in the Company.

**Report:** The assigned corporate courses to me in the Belize domain was Teamwork and Collaboration, Strategy Tools. Although, there are missing courses in the excel sheet that I used as a basis on what I am going to add in the Course Prices. The missing courses were Belbin’s Team Roles, Encouraging Team Creativity, Improving Group Dynamics, Teamwork and Communication, Corporate Governance, Corporate Social Responsibility.

After all the interns finished editing, I was assigned to double checked all the webpages of the Belize domain. In the excel sheet of Qatar domain where all its webpages are listed, rows 7-305 were double checked and edited. The webpages that I edited were rows 11, 15, 48, 59, 68, 72, 96, 100, 138, 139, 149, 161, 179, 183, 190, 192, 197, 272, 275, 280, and 282-287.

The website that I created was the booking system website where the user does not need to register to book a hotel. They can also search for the most accessible and the highest rating hotel nearby. The purpose of the website is to reduce the time needed to book a hotel, especially for people who are constantly travelling and moving from different places. They can book multiple hotels because they can schedule when they will arrive for checking in to the hotel and when will they leave or check out.

* 1. **Week 13**

**Activity:** Double Checking and Updating Course Price in Mexico and Pakistan domain.

Report: Done editing the assigned corporate courses in the Mexico domain. The assigned courses to me were Sales Skills Courses, Problem Solving & Decision-Making Courses. After all interns finished updating the course price in the Mexico domain, I was assigned to double check all the webpages.

Done editing the assigned corporate courses in the Pakistan domain. The assigned courses to me were Marketing Skills Courses, Mentoring and Coaching Skills Courses, Leadership & Management Skills Courses.

* 1. **Week 14**

**Activity:** Double Checking and Updating Price Errors in Taiwan Domain and Updating Course Price in Indonesia Domain.

**Report:** In the excel sheet of Taiwan domain where all its webpages are listed, rows 7-45 were double checked and edited. The webpages that I edited were rows 9, 10, 15, 16, 19-30, 34, 36-42, 44, and 45.

Done editing the assigned corporate courses in the Indonesia domain. The assigned courses to me were Marketing Skills Courses, Mentoring and Coaching Skills Courses, Leadership & Management Skills Courses, and Facilitation, Teaching, Training, and Learning Skills Courses.

* 1. **Week 15**

**Activity:** Double Checking and Updating Course Price in Denmark and Israel Domain.

**Report:** Done editing the assigned corporate courses in the Denmark domain. The assigned courses to me were Strategy Tools Courses, Sales Skills Courses, Problem Solving and Decision-Making Courses.

Done editing the assigned corporate courses in the Israel domain. The assigned courses to me were Facilitation, Teaching, Training, and Learning Skills Courses, Customer Service Skills Courses, Conflict Resolution and Mediation Skills Courses, Communication Skills Courses, and Career Skills Courses.

* 1. **Week 16**

**Activity:** Double Checking and Updating Course Price in China Domain.

**Report:** Done editing the assigned corporate courses in the China domain. The assigned courses to me were Facilitation, Teaching, Training, and Learning Skills Courses, Leadership & Management Skills Courses, Mentoring and Coaching Skills Courses, and Marketing Skills Courses.

1. **A picture containing text, screenshot, letter, document

   Description automatically generatedRecommendation Letter**
2. **A picture containing text, letter, font, screenshot

   Description automatically generatedInternship Contract Agreement**
3. **Certificate of Completion**

**A picture containing text, screenshot, font, logo

Description automatically generated**

1. **A picture containing screenshot, text, colorfulness, pattern

   Description automatically generatedDaily Time Record**

A picture containing screenshot, colorfulness, pattern, rectangle

Description automatically generated

1. **A picture containing text, screenshot, design

   Description automatically generatedLetter of Completion**

**Prepared by:**

****

OJT – IT

**Reviewed by:**

A picture containing black, darkness, space, night

Description automatically generated

Sir. Eugene Perez

Team Leader – IT Department