Team Background

Algorithm Alliance means the groups' are united in doing tasks from simple sorting and searching to complex tasks. Though the teams' still beginners, they are capable of doing tasks that an intermediate web developer can do. The group consists of 5 people that have a variety of roles and each has their own skills and capabilities. The groups' tagline is "Where design meets technology".

Mission

The group's main goal is to design, develop, and maintain web-based applications that meet the needs of users and achieve business objectives and to give business friendly and efficient services.

Vision

Our vision at Algorithm Alliance is to create a website that is innovative, user-friendly, visually stunning and excel in algorithm development . We are dedicated to deliver innovative front-end and back-end solutions and seamless user experience that meets the needs of our clients. We will utilize the latest technologies and best practices to develop solutions that improve efficiency, increase revenues, and enhance customers satisfaction. Through collaboration and a focus on excellence, we will create algorithms that meet the unique needs of each company we work with and help them to achieve their goals.

Our Team and Leadership

Welcome to our team! We are a group of students who are passionate about creating awesome projects. We have a team of talented individuals who bring unique skills and expertise to every project. Let us introduce you to our team who will work hard to turn your ideas into reality.

Team Member	Description	Skills
Adam Jay Balona Documentation Officer	A first-year University of Makati student, pursuing Bachelor of Science in Computer Science Major in Application Development, who is enthusiastic about the technology industry and has a problem-solving mindset. He has demonstrated a strong work ethic and is eager to learn more about the latest technologies in the field.	• Proficient in HTML, CSS, PHP, and Java • Strong communication skills, able to work collaboratively in a team and convey ideas effectively • Excellent attention to detail, ensuring projects are completed to a high standard
Nicole Candelaria Project Leader	A skilled first-year college student from the University of Makati studying Bachelor of Science in Computer Science Major in Application Development. She has extensive experience in team management and a client-focused approach to ensure excellent web application development.	• Excellent Communication • Highly- organized and detail oriented • Commited to excellence • Strategic and critical thinking • Team and client management • Technical : understands web technologies and framworks • Skilled in Java, CSS, HTML, PHP, and Mysql.
James Castro Back-end Programmer	A skilled first-year Computer Science student at University of Makati, majoring in Application Development. He has a passion for developing website scripts that guarantee optimal performance and an excellent user experience. He collaborates effectively with co-developers to ensure high backend standards of functionality, reliability, and security. Here are his key skills:	• Proficient in backend programming • Experienced in creating efficient website scripts • Strong collaboration and communication abilities • Focused on ensuring optimal performance and user experience • Committed to high standards of functionality, reliability, and security
Thomas Naguit Back-end Programmer	A first-year Computer Science major in Application Development at the University of Makati. With a focus on creating logic and algorithms for website and application backends, this student is a skilled problem solver with a keen eye for detail.	• Skilled in creating logic and algorithms for website and application backends • Detail-oriented with a focus on quality • Specializes in JavaScript and PHP scripting for efficient website operation • Collaborates with front-end programmers to ensure group efficiency

Jerine Carl Diaz Front-end Designer	First-year student pursuing a degree in Computer Science Major in Application Development at the University of Makati. She specializes in creating visually appealing and functional user interfaces for web and mobile applications .	• Proficient in HTML, CSS, and JavaScript • Experienced with design software such as Sketch, Figma and Canva • have Knowledge on responsive design techniques to ensure websites work well on different screen sizes • Experienced in UI and UX design

Executive Summary

Company Background

    Urban Oasis Resort Tarlac was founded by Modesto Ordoñez. It is a hotel resort, sole proprietorship company which means the owner runs the business himself. Originally, Urban Oasis Resort Tarlac was named Urban Oasis and was changed to Urban Oasis Resort Tarlac on June 28, 2022. Urban Oasis Resort Tarlac has been welcoming guests since June 14, 2022. The resort has a Facebook page that was created on April 8, 2021, serves as a platform for guest to stay updated to latest promotions, updates and feedback on their experiences. The resort is located in Kaldera St. Barangay Culipat Road, Tarlac.

Overview of the Resort

Urban Oasis Resort Tarlac features an outdoor swimming pool, garden, a terrace and restaurant in Tarlac. Featuring a shared kitchen, this property also provides guests with a grill. The air-conditioned rooms provide a pool view and come with a desk and free Wi-Fi.

All guest rooms at the resort are equipped with a seating area. Urban Oasis Resort Tarlac provides some units with garden views, and each room includes a balcony. At the accommodation all rooms have bed linen and towels.

Guests at Urban Oasis Resort Tarlac can enjoy an à la carte or an Asian breakfast. With staff speaking English and Filipino, information is available at the reception.

The transaction involved at the resort depends on what the customers booked. Since there is a variety of how the customers book, such as if they only book for a day and then leave after that, there are also customers that book for three days. With that, we can't measure the transactions coming in and out of the resort.

Problem Overview

The business we've chosen, Urban Oasis Resort, doesn't have a website; instead, they use Agoda and booking.com for reservations. The only issue is that, although having an Agoda and booking.com as their booking system, the business doesn't have a separate booking system and hence has a restricted online presence.

In essence, this means that the commission required for the website itself reduces their income. Additionally, this limits customization because the company is limited in what it can advertise about its resort.

The other problem that the resort encounters is that they do not have a system that can track the reservations and transactions that come in and out of the resort.

Proposed Solution or Objectives

As the problem was mentioned above, the proposed solution of the team is to have the Urban Oasis Resort have their own website. The additional system that we proposed is having them have the inventory system in order to track the booking reservations and transactions.

The groups' objective is to develop a website that includes a booking system to the resort. A booking system that can help the customers and the business owners to manage their bookings, knowing if a slot is available or taken. It can also build a better and reliable customer base, which gives them a much easier time on setting dates and bookings.

The aim of this website is to promote the resort and its amenities to potential tourists or vacationers, thereby increasing our profitability. We intend to use the website to illustrate the benefits of selecting our resort for a vacation and to convince visitors that it is a smart decision to choose us as their preferred destination.

Scope of Work

1. Develop a responsive and user-friendly website that showcases the resort's facilities, amenities, and services, with a focus on attracting potential guests, and would include these features:

    a. **Online Booking:** The website should allow guests to make online reservations easily. Guests should be able to select dates of their stay, the type of accommodation they want, and the number of people in their party.

    b. **Availability Calendar:** The website should display an availability calendar that shows which rooms are available on which dates. This will help customers to plan their trip accordingly.

    c. **Room Description and Photos:** The website should provide detailed descriptions and photos of each room or accommodation option available. This would help customers to select rooms that best fits their needs and preferences.

    d. **Payment Processing:** The website should have the QR code of the resort's GCash account for the payment. In this way, the payment can be easily checked and monitored.

e. Receipt System: A receipt system that provides customers with a detailed receipt of their payment and booking information. Additionally, the receipt may also include the hotel/resort's contact information, cancellation policy, and any other relevant details.
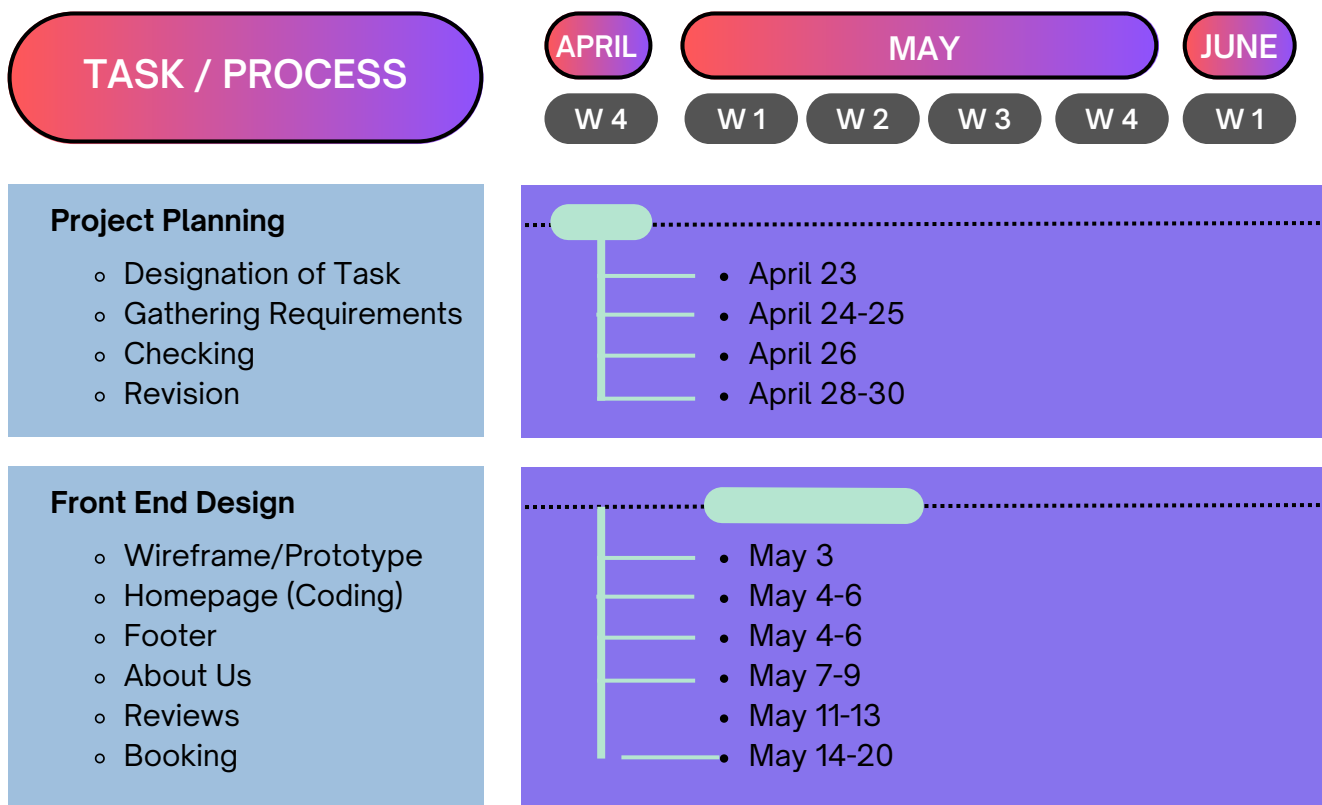
f. Reservation Management: The website should provide a reservation management system that allows staff to manage reservations, including cancellation, modifications, and refunds.
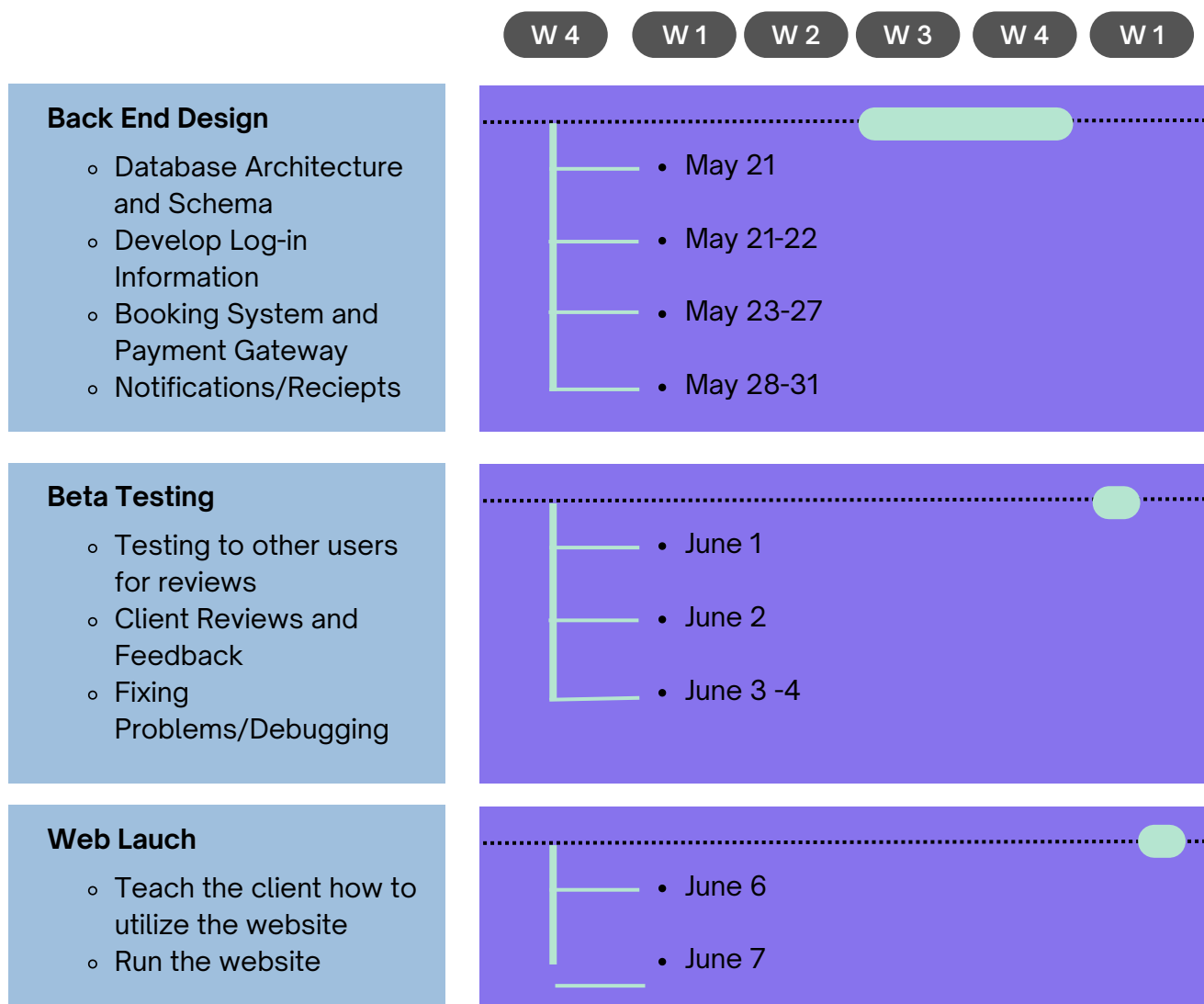
g. Contact Information: The website should display the resort's contact information, including phone number, email address and physical address. This will make it easy for customers to contact the resort with any questions or concerns.

2. Implement a secure and efficient booking system that allows guests to check room availability, select room types and make bookings and reservations.

3. Conduct testing and quality assurance to ensure that the website and booking system are fully functional, bug-free, and accessible on all devices and browsers.

Gantt Chart

TASK / PROCESS	APRIL	MAY				JUNE
	W 4	W 1	W 2	W 3	W 4	W 1

Project Planning
- Designation of Task — April 23
- Gathering Requirements — April 24-25
- Checking — April 26
- Revision — April 28-30

Front End Design
- Wireframe/Prototype — May 3
- Homepage (Coding) — May 4-6
- Footer — May 4-6
- About Us — May 7-9
- Reviews — May 11-13
- Booking — May 14-20

| W 4 | W 1 | W 2 | W 3 | W 4 | W 1 |

Back End Design

- Database Architecture and Schema
- Develop Log-in Information
- Booking System and Payment Gateway
- Notifications/Reciepts

- May 21
- May 21-22
- May 23-27
- May 28-31

Beta Testing

- Testing to other users for reviews
- Client Reviews and Feedback
- Fixing Problems/Debugging

- June 1
- June 2
- June 3 -4

Web Lauch

- Teach the client how to utilize the website
- Run the website

- June 6
- June 7

Timeline

1. Project Planning (1 week)
   - Gather client requirements and curate briefs
   - Define the project scope and establish a project plan and timeline
   - Designation of Task
   - Checking / Revison
2. Frontend Design (2 weeks)
   - Create wireframes and prototypes
   - Develop the user interface and user experience design
   - Develop the visual design and branding elements
   - Develop a design system and style guide
   - Implement responsive design for various devices and screen sizes

3. Backend Programming (2 weeks)
- Develop the database architecture and schema
- Build the front-end and back-end of the application
- Implement the booking system and payment gateway

4. Beta Testing (4 days)
- Share the offline version of the website with the client for review and feedback
- Conduct testing and debugging

5. Website Launch (2 days)
- Run the launch process for the new website
- Train staff on using the application

Again, please keep in mind that this timeline is just an estimate and can vary based on various factors such as the complexity of the project, the size of the team, and any potential delays or issues that may arise during development.