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Project Profile

Project Name	LOOKOUT – Hotel Management System
Objective	online hotel management system, is a software application designed to streamline and automate various operations within a hotel or hospitality establishment. It leverages technology to improve efficiency, enhance guest experiences, and facilitate seamless management of hotel functions.
Group Members	2
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Work distribution among group members

There is no work distribution among us. We both have work on the all the modules.

Goals

The goals for an online hotel management system are as follows:

1. Efficient Reservation Management: The system should enable seamless and efficient management of room reservations, allowing guests to easily book rooms online and providing hotel staff with real-time information on room availability, rates, and booking status.
2. Streamlined Check-In and Check-Out Processes: The system should simplify and expedite the check-in and check-out processes, minimizing guest waiting times and ensuring a smooth arrival and departure experience.
3. Effective Guest Relationship Management: The system should enable the hotel to build and maintain strong relationships with guests by storing and managing guest information, preferences, and history. This allows for personalized services, targeted marketing, and improved guest satisfaction.
4. Accurate and Automated Billing: The system should automate the billing process, accurately calculating charges for room rates, additional services, and applicable taxes. It should generate detailed and error-free invoices, simplifying the payment collection process.
5. Comprehensive Inventory Management: The system should provide a centralized platform to manage and monitor the hotel's room inventory, including room types, availability, and rates. It should facilitate efficient room allocation, optimize occupancy rates, and enable effective forecasting and planning.
6. Seamless Integration with Online Channels: The system should integrate with online travel agencies (OTAs), the hotel's website, and other distribution channels to ensure consistent and accurate availability, rates, and reservations across all platforms. This maximizes online visibility, increases bookings, and simplifies inventory management.
7. Efficient Housekeeping and Maintenance: The system should streamline housekeeping and maintenance processes by providing real-time updates on room statuses, housekeeping schedules, and maintenance requests. This improves communication between staff members, enhances room turnover efficiency, and ensures prompt resolution of maintenance issues.

8. Detailed Reporting and Analytics: The system should generate comprehensive reports and analytics on various hotel metrics, such as occupancy rates, revenue, guest preferences, and operational efficiency. These insights help in making informed decisions, identifying trends, and optimizing hotel performance.

9. Enhanced Security and Data Protection: The system should prioritize the security of guest data, ensuring compliance with data protection regulations. It should incorporate robust security measures to protect sensitive information and prevent unauthorized access.

10. User-Friendly Interface: The system should have an intuitive and user-friendly interface for both hotel staff and guests. It should be easy to navigate, with clear instructions and minimal learning curve, enabling efficient use and maximizing productivity.

By achieving these goals, an online hotel management system can significantly improve operational efficiency, enhance guest experiences, increase revenue, and streamline the overall management of a hotel or hospitality establishment.

Objectives

The objectives for an online hotel management system are as follows:

1. Efficient Booking Process: The system should provide a user-friendly interface for guests to make online reservations quickly and easily, ensuring a seamless booking experience.
2. Real-time Availability: The system should maintain up-to-date information on room availability, rates, and amenities, enabling guests to view accurate and real-time availability before making a booking.
3. Automated Confirmation and Notification: The system should automatically generate booking confirmations and send them to guests via email or SMS, providing them with detailed information about their reservations.
4. Centralized Guest Information Management: The system should store and manage guest information, including contact details, preferences, and special requests, in a centralized database. This facilitates personalized services, enables effective guest relationship management, and ensures a consistent guest experience.
5. Streamlined Check-in and Check-out: The system should simplify the check-in and check-out processes by automating tasks such as guest registration, key issuance, and payment processing. This reduces waiting times and enhances the overall guest experience.
6. Integrated Billing and Invoicing: The system should automate billing processes, accurately calculating charges based on room rates, additional services, and taxes. It should generate itemized invoices and provide multiple payment options for guests, ensuring efficient and accurate financial transactions.
7. Comprehensive Room Inventory Management: The system should manage the hotel's room inventory, including room types, availability, and rates. It should allow hotel staff to easily update and maintain the inventory, ensuring accurate information across all distribution channels.
8. Reporting and Analytics: The system should provide comprehensive reporting and analytics capabilities, offering insights into occupancy rates, revenue, guest preferences, and

other key performance indicators. This data helps hotel management make informed decisions, optimize operations, and identify opportunities for improvement.

9. Integration with Online Travel Agencies (OTAs): The system should seamlessly integrate with popular OTAs, allowing the hotel to manage inventory, rates, and reservations across multiple online platforms. This maximizes online visibility, expands the hotel's reach, and increases booking opportunities.

10. Secure Data Management: The system should prioritize data security, implementing robust security measures to protect guest information and ensure compliance with data protection regulations. It should have secure user authentication, encrypted data transmission, and proper data backup procedures.

11. User-Friendly Interface: The system should have an intuitive and user-friendly interface for both hotel staff and guests. It should be easy to navigate, with clear instructions and minimal training required for users to effectively utilize the system.

By achieving these objectives, an online hotel management system can enhance operational efficiency, improve guest satisfaction, streamline processes, and optimize revenue generation for a hotel or hospitality establishment.

Problem Area

- The all the projects are manage using manual system. So, it takes longer time to manage.
- Tasks are assigned to the user manual and then the entry of that task is done in the document file by the project coordinator.
- If the status of task is in any critical mode then difficulty to justify.
- Not possible to deliver project on the given time using manual system.
- Difficult to identify the work load of the employees.
- With the manual system difficult to generate dynamic reports regarding to the project.
- For assign task project coordinator has to meet the particular employee personally or personally mail to that particular employee.

Project Definition

Project Name : LOOKOUT – Hotel Management System

Project Description :

An online hotel management system is a comprehensive software application that facilitates the management and operations of a hotel or hospitality establishment through an online platform. It leverages technology to streamline and automate various tasks, allowing hotel staff to efficiently handle reservations, guest services, billing, room inventory, and other critical functions.

The system provides a user-friendly interface for both guests and hotel staff, enabling seamless interactions and transactions. Guests can access the system to make online reservations, check room availability, view rates, and manage their bookings. Hotel staff, including front desk personnel, managers, housekeeping, and finance teams, can utilize the system to efficiently manage operations, ensure smooth guest experiences, and optimize revenue generation.

The core functionalities of an online hotel management system include:

1. Reservation Management: The system enables guests to make online reservations, check room availability, select room types, and specify preferences or special requests. It automates the reservation process, allowing hotel staff to view and manage bookings, allocate rooms, and update availability in real time.
2. Guest Relationship Management: The system stores guest information, including contact details, preferences, and past stays. It allows hotel staff to provide personalized services, manage guest profiles, track guest history, and anticipate guest needs for a more personalized and tailored experience.
3. Room Inventory Management: The system maintains a centralized database of room types, availability, rates, and amenities. Hotel staff can efficiently manage and update room inventory, assign rooms to guests, track occupancy rates, and optimize room utilization.
4. Check-in and Check-out Processes: The system streamlines the check-in and check-out processes, automating tasks such as guest registration, key issuance, and payment

processing. It reduces wait times, enhances guest satisfaction, and improves operational efficiency.

5. Billing and Invoicing: The system automates billing processes, accurately calculating charges for room rates, additional services, taxes, and other expenses. It generates itemized invoices, facilitates secure payment collection, and provides financial reports for effective accounting and revenue management.

6. Housekeeping and Maintenance: The system assists in managing housekeeping operations, allowing hotel staff to view room statuses, track cleaning schedules, manage maintenance requests, and coordinate efficiently between departments. It ensures prompt and efficient room turnover and maintenance activities.

7. Reporting and Analytics: The system generates comprehensive reports and analytics on key performance indicators such as occupancy rates, revenue, guest preferences, and operational efficiency. These insights help hotel management make data-driven decisions, identify trends, and optimize performance.

8. Integration with External Systems: The system integrates with other systems and platforms, such as online travel agencies (OTAs), channel managers, point of sale (POS) systems, and revenue management tools. This enables seamless data synchronization, centralized control of distribution channels, and efficient revenue management.

An online hotel management system brings numerous benefits, including increased operational efficiency, enhanced guest satisfaction, improved revenue management, and better decision-making through access to real-time data. It streamlines hotel operations, improves communication and coordination among staff members, and provides a seamless and convenient experience for guests, ultimately contributing to the success and profitability of the hotel.

ASSUMPTION

When developing an online hotel management system, some common assumptions may include:

1. Internet Connectivity: The system assumes that the hotel has a stable and reliable internet connection to enable online operations, including reservations, data synchronization, and communication with guests and external systems.
2. Hardware and Infrastructure: It is assumed that the hotel has the necessary hardware, such as computers, servers, and networking equipment, to support the online hotel management system. Adequate infrastructure, including power backup systems, is also assumed for uninterrupted system access.
3. User Training and Familiarity: It is assumed that the hotel staff using the system have received appropriate training and are familiar with the basic operation and functionality of the online hotel management system. This includes understanding reservation management, check-in/check-out processes, and other key features.
4. Data Security Measures: The system assumes that the hotel has implemented appropriate data security measures to protect guest information, including encryption protocols, user access controls, and regular data backups. It assumes compliance with relevant data protection regulations.
5. Integration with Third-Party Systems: The system assumes seamless integration with third-party systems, such as online travel agencies (OTAs), channel managers, and payment gateways, to enable smooth data exchange and transactions.
6. System Compatibility: The system assumes compatibility with commonly used web browsers and operating systems, ensuring that guests and hotel staff can access and use the system without significant compatibility issues.

7. Scalability: The system assumes that it can handle an increasing number of reservations, guests, and transactions as the hotel's business grows. It anticipates the ability to scale the system's resources and infrastructure accordingly.
8. Legal and Regulatory Compliance: The system assumes that the hotel complies with applicable laws, regulations, and industry standards regarding data privacy, consumer protection, and online transactions.

These assumptions help provide a framework for developing and implementing an online hotel management system. However, it's important to assess the specific requirements and context of each hotel to ensure that the system meets their unique needs and circumstances.

CONSTRAINTS

When developing an online hotel management system, some common constraints and considerations may include:

1. Budgetary Constraints: The development, implementation, and maintenance of an online hotel management system can involve significant costs. Budget constraints may impact the features, functionality, and resources allocated to the system.
2. Time Constraints: There may be time constraints for the development and deployment of the system. Deadlines for system implementation and integration with existing hotel operations need to be taken into account.
3. Legacy Systems and Integration: Integration with existing legacy systems, such as property management systems (PMS), accounting software, or other internal systems, can present challenges. Compatibility issues and the need for data migration or synchronization may impose constraints on the implementation process.
4. Infrastructure Limitations: The hotel's existing infrastructure, including network infrastructure and hardware capabilities, may impose limitations on the system's performance and scalability. Upgrading or enhancing the infrastructure may be required to meet the system's requirements.
5. Security and Privacy Compliance: The system must adhere to security and privacy standards to protect guest data and comply with applicable regulations. Constraints may arise from legal requirements, data protection measures, and security protocols that need to be implemented.
6. User Adoption and Training: Ensuring user adoption and providing training to hotel staff can be a constraint. Staff members may require time and resources to become familiar with the system's functionality and processes.

7. Customization and Flexibility: Hotels may have unique requirements and preferences regarding the system's features and customization. Balancing the need for customization with system standardization and scalability can be a constraint.
8. User Experience and Accessibility: The system needs to provide a user-friendly interface and be accessible across different devices and platforms. Constraints may arise in terms of designing an intuitive user interface that accommodates diverse user needs.
9. External Dependencies: The system may depend on external factors, such as the availability and reliability of third-party services, APIs, or interfaces. Constraints may arise from the limitations or downtime of these dependencies.
10. Regulatory Compliance: Hotels operating in different countries or jurisdictions may face regulatory constraints specific to each location. Adhering to local regulations and compliance requirements can impose constraints on the system's design and functionality.
11. Scalability and Performance: The system should be able to handle increasing volumes of data, transactions, and users as the hotel's business grows. Constraints may arise from scalability limitations or performance issues if the system is not designed to handle increasing demands.

Considering these constraints during the development and implementation of an online hotel management system helps ensure that the system is aligned with the hotel's needs, operational constraints, and compliance requirements.

ADVANTAGES OF PROPOSE SYSTEM

An online hotel management system offers several advantages for hotels and hospitality establishments:

1. Efficient Reservation Management: The system automates the reservation process, allowing guests to make online bookings conveniently. It provides real-time availability information, reduces manual tasks for staff, minimizes errors, and streamlines the overall reservation management process.
2. Enhanced Guest Experience: The system enables a personalized guest experience by storing guest preferences, history, and special requests. Hotel staff can access this information to provide tailored services, resulting in higher guest satisfaction and loyalty.
3. Streamlined Operations: The system automates various hotel operations, such as check-in, check-out, billing, and inventory management. It eliminates paperwork, reduces manual errors, and enables efficient allocation of rooms, resulting in improved operational efficiency and reduced administrative workload.
4. Accurate Billing and Revenue Management: The system automates billing processes, accurately calculating charges for room rates, additional services, and taxes. It generates detailed invoices, tracks payments, and provides insights into revenue performance, enabling effective revenue management and financial control.
5. Centralized Data Management: The system centralizes guest information, reservations, and operational data in a unified database. This allows hotel staff to access and analyze data in real time, improving decision-making, generating insightful reports, and enabling better strategic planning.
6. Improved Communication and Collaboration: The system facilitates better communication and collaboration among hotel staff. It enables seamless information sharing, task assignment, and coordination between departments, resulting in improved teamwork and smoother operations.
7. Enhanced Housekeeping and Maintenance: The system helps streamline housekeeping and maintenance operations. It provides real-time updates on room statuses, housekeeping schedules, and maintenance requests, enabling efficient task management and ensuring timely service delivery.

8. Increased Revenue and Occupancy: An online hotel management system can boost revenue by increasing online visibility, expanding the reach to potential guests, and enabling seamless integration with online travel agencies (OTAs) and other distribution channels. It optimizes room occupancy, pricing strategies, and marketing efforts for improved financial performance.
9. Data-driven Decision Making: The system provides access to comprehensive reports and analytics, offering valuable insights into occupancy rates, revenue, guest preferences, and operational performance. These data-driven insights empower hotel management to make informed decisions, identify trends, and implement strategies for growth and improvement.
10. Improved Security and Data Protection: The system incorporates security measures to protect guest information and ensure data privacy. It includes user authentication, data encryption, and regular backups, ensuring compliance with data protection regulations and minimizing the risk of data breaches.

Overall, an online hotel management system improves operational efficiency, enhances guest experiences, optimizes revenue management, and enables better decision-making. It helps hotels stay competitive in the digital age by leveraging technology to streamline processes, deliver exceptional guest services, and drive business growth.

LIMITATIONS OF PROPOSE SYSTEM

While an online hotel management system offers many advantages, it also has some limitations that should be considered:

1. Dependence on Internet Connectivity: The system relies on a stable and reliable internet connection. In case of internet outages or slow connectivity, access to the system and its functionalities may be disrupted, affecting operations and guest services.
2. Technical Issues and System Downtime: Technical glitches, software bugs, or server maintenance can cause system downtime, temporarily rendering the system inaccessible. This can impact guest services, reservation management, and overall operational efficiency.
3. Initial Implementation Challenges: Implementing an online hotel management system can be complex and time-consuming. It requires staff training, data migration, and integration with existing systems, potentially leading to disruptions and additional costs during the transition phase.
4. Compatibility with Legacy Systems: Integration with legacy systems, such as older property management systems or accounting software, can be challenging. Compatibility issues may arise, necessitating custom development or workarounds to ensure smooth data synchronization and seamless operations.
5. User Adoption and Training: The system requires staff members to be trained in using the software effectively. Resistance to change or lack of familiarity with the system may result in a learning curve and lower initial productivity until staff becomes proficient with the new system.
6. Data Security and Privacy Concerns: Storing guest information and financial data electronically raises security and privacy concerns. The system must have robust security measures in place to protect sensitive data and comply with relevant regulations, such as the General Data Protection Regulation (GDPR) or Payment Card Industry Data Security Standard (PCI DSS).

7. Customization and Flexibility Constraints: Some online hotel management systems may have limitations on customization and flexibility. Hotels with unique or specific requirements may face constraints in tailoring the system to their exact needs, relying on predefined features and configurations.
8. Cost and Budgetary Considerations: Implementing and maintaining an online hotel management system incurs costs. Licensing fees, hardware upgrades, and ongoing technical support contribute to the overall expenses. Budgetary constraints may limit the hotel's ability to invest in the most advanced features or system upgrades.
9. Reliance on Third-Party Services: The system may rely on third-party services, such as online travel agencies (OTAs) or payment gateways. Dependencies on external systems can introduce risks of service disruptions, changes in terms and conditions, or limitations imposed by those services.
10. Staff and Guest Resistance to Technology: Some staff members or guests may prefer traditional methods of hotel management or have limited technological literacy. Resistance to adopting an online system may require additional support and training efforts to ensure successful adoption and usage.

Awareness of these limitations allows hotels to plan and address potential challenges associated with implementing and using an online hotel management system effectively. Careful consideration of these constraints helps mitigate risks and maximize the benefits derived from the system.

Tools and Technologies

PYTHON



Python is a high-level programming language known for its simplicity, readability, and versatility. It was created by Guido van Rossum and released in 1991. Python emphasizes code readability and follows a clean and easy-to-understand syntax, making it a popular choice for beginners and experienced developers alike.

Here are some key features and aspects of Python:

1. Easy-to-Read Syntax: Python uses a clean and straightforward syntax, which resembles natural language and emphasizes code readability. This feature makes it easy to learn and understand, even for those new to programming.
2. Interpreted Language: Python is an interpreted language, which means that code is executed line by line without the need for a separate compilation step. This makes Python highly interactive and allows for quick experimentation and prototyping.
3. Versatility and Portability: Python is a versatile language used for a wide range of applications, including web development, scientific computing, data analysis, machine learning, artificial intelligence, automation, and scripting. It can run on various platforms, including Windows, macOS, Linux, and Unix-like systems.
4. Large Standard Library: Python comes with an extensive standard library that provides pre-built modules and functions for a wide range of tasks. This library saves time and effort by offering ready-to-use tools for common programming tasks, such as file handling, networking, string manipulation, and more.
5. Third-Party Packages and Libraries: Python has a vast ecosystem of third-party packages and libraries that extend its capabilities. These packages, such as NumPy, Pandas, Django,

Flask, TensorFlow, and many others, provide additional functionality for specialized tasks and domains.

6. Object-Oriented Programming (OOP) Support: Python supports object-oriented programming principles, allowing developers to write modular and reusable code. It provides features like classes, objects, inheritance, and polymorphism, facilitating the implementation of complex systems and software designs.

7. Community and Documentation: Python has a large and active community of developers who contribute to its growth and share their knowledge. The community-driven nature of Python has resulted in comprehensive documentation, tutorials, forums, and online resources that provide support and guidance to developers.

8. Readily Available Tools and Frameworks: Python offers numerous frameworks and tools that simplify and accelerate application development. Web development frameworks like Django and Flask, data analysis libraries like Pandas and NumPy, and machine learning frameworks like TensorFlow and PyTorch are widely used and highly regarded in their respective domains.

9. Integration and Extensibility: Python can easily integrate with other programming languages and systems. It supports integration with C/C++ code through modules like ctypes or by using language bindings. Python can also be embedded in other applications, allowing developers to extend the functionality of existing software systems.

Python's popularity has grown steadily over the years due to its simplicity, versatility, and rich ecosystem. It is widely adopted by developers, scientists, researchers, and organizations across various industries for a wide range of applications.

DJANGO

Django is a high-level web framework written in Python that follows the Model-View-Controller (MVC) architectural pattern. It was developed to simplify and expedite the process of building web applications. Django provides a robust set of tools, libraries, and features that enable developers to create scalable and secure web applications quickly.



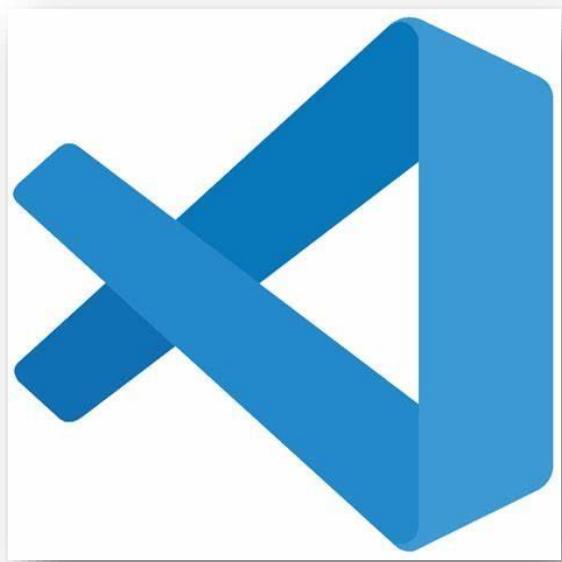
Here are some key aspects and features of Django:

1. MVC Architecture: Django follows the Model-View-Controller (MVC) architectural pattern, but with slight variations. It uses a Model-View-Template (MVT) approach, where the Model represents the data structure, the View handles the user interface, and the Template defines the presentation layer.
2. Object-Relational Mapping (ORM): Django includes a powerful Object-Relational Mapping (ORM) layer that abstracts database management and allows developers to interact with databases using Python code. It supports various database backends, such as PostgreSQL, MySQL, SQLite, and Oracle.
3. URL Routing and View Handling: Django provides a URL routing system that maps incoming requests to corresponding views. Views are Python functions or classes that process the requests, fetch data from models, and return appropriate responses.
4. Template Engine: Django's template engine allows developers to separate the presentation layer from the application logic. Templates are HTML files with embedded Python code that can access data from views and render dynamic content.
5. Forms and Input Handling: Django simplifies form handling by providing a Forms API. It allows developers to define forms, handle form validation, and process user input easily. Django's forms handle common tasks such as field validation, error messages, and form rendering.

6. Authentication and Authorization: Django includes a built-in authentication system that supports user registration, login, logout, and password management. It also provides tools for managing user permissions and access control to secure application resources.
7. Admin Interface: Django offers an automatic admin interface that allows developers to quickly create a customizable administrative interface for managing application data. It provides features like CRUD (Create, Read, Update, Delete) operations, filtering, searching, and user management.
8. Security Features: Django incorporates various security features by default, such as protection against common web vulnerabilities like Cross-Site Scripting (XSS), Cross-Site Request Forgery (CSRF), SQL injection, and clickjacking. It encourages best practices for secure coding and includes measures like password hashing and secure session management.
9. Internationalization and Localization: Django supports internationalization and localization of web applications. It provides tools for translating text and formatting dates, numbers, and timezones based on user preferences or site configurations.
10. Robust Community and Ecosystem: Django has a large and active community of developers who contribute to its growth and maintenance. The community-driven nature of Django has resulted in a vast ecosystem of reusable applications, plugins, and extensions that extend Django's capabilities and provide additional functionality.

Django's combination of high-level abstractions, ready-to-use components, and strong conventions allows developers to build complex web applications efficiently. It promotes code reusability, scalability, and maintainability, making it a popular choice for web development projects of various sizes and complexities.

VS CODE



Visual Studio Code (VS Code) is a free and open-source code editor developed by Microsoft. It is designed to be lightweight, highly customizable, and suitable for a wide range of programming languages and development tasks. VS Code provides a rich set of features and extensions that enhance productivity and streamline the coding experience.

Visual Studio Code:

1. Lightweight and Fast: VS Code is known for its speed and efficiency. It has a minimalistic interface and consumes fewer system resources compared to full-fledged Integrated Development Environments (IDEs). It starts up quickly and performs well, even when working with large codebases.
2. Cross-Platform Compatibility: VS Code is available for Windows, macOS, and Linux, making it accessible to developers using different operating systems. It provides a consistent experience across platforms, allowing developers to seamlessly switch between different machines.
3. Language Support and IntelliSense: VS Code offers built-in support for a wide range of programming languages. It includes syntax highlighting, code completion, and intelligent code suggestions (IntelliSense) based on the context. It also provides support for linting, formatting, and debugging code in various languages.
4. Extensions and Customization: VS Code has a rich extension ecosystem that allows developers to customize and extend its functionality. There are numerous extensions available for different programming languages, frameworks, and development tools. Developers can install extensions to enhance features like Git integration, project management, code snippets, and more.

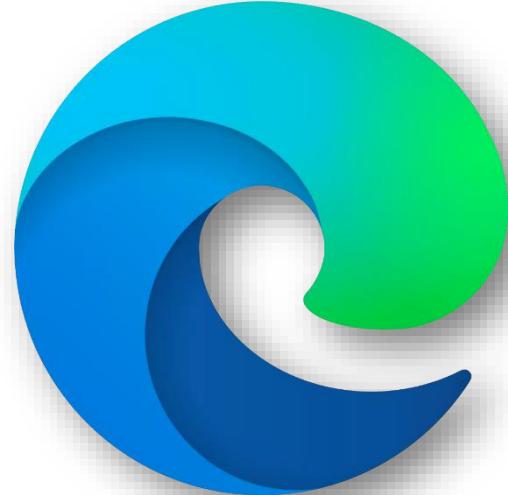
5. Integrated Terminal: VS Code includes an integrated terminal, allowing developers to run commands, execute scripts, and interact with the command-line interface without leaving the editor. This feature streamlines the development workflow and eliminates the need for switching between multiple applications.
6. Version Control Integration: VS Code provides seamless integration with version control systems like Git. It offers features such as visual diffing, staging changes, committing, pushing, and pulling code directly from the editor. This makes it easy to manage and collaborate on code repositories.
7. Debugging Capabilities: VS Code supports debugging for various programming languages and frameworks. It provides an interactive debugger with breakpoints, variable inspection, and call stack navigation. Developers can debug their code directly within the editor, making the troubleshooting process more efficient.
8. Task Automation: VS Code allows developers to define and automate tasks using its built-in task runner. Developers can configure tasks for common actions like building, testing, or deploying code. Task runners can be customized to meet specific project requirements.
9. Live Share Collaboration: Visual Studio Code includes a Live Share extension that enables real-time collaboration and pair programming. Developers can share their coding session with others, allowing them to edit and debug code together, facilitating remote collaboration and knowledge sharing.
10. Active Community and Support: Visual Studio Code has a large and active community of developers. The community actively contributes to the development of extensions, shares tips and tricks, and provides support through forums, blogs, and documentation.

Visual Studio Code's combination of performance, flexibility, and extensive features has made it a popular choice among developers across different programming languages and platforms. Its user-friendly interface, vast extension ecosystem, and strong community support make it a versatile code editor for a wide range of development tasks.

EDGE

Edge refers to Microsoft Edge, which is a web browser developed by Microsoft. It is designed to provide a fast, secure, and modern browsing experience. Microsoft Edge is available for Windows, macOS, Android, and iOS, allowing users to access the web seamlessly across different devices.

Here are some key aspects and features of Microsoft Edge:

- 
1. Engine and Performance: Microsoft Edge uses the Chromium rendering engine, which provides compatibility with modern web standards and ensures a fast and responsive browsing experience. It leverages hardware acceleration and optimizations to deliver smooth page rendering and faster loading times.
 2. User Interface: Edge features a clean and intuitive user interface, with a focus on simplicity and ease of use. It offers a customizable start page, a unified address bar and search box, and a streamlined tab management system. Users can personalize the browser by choosing from various themes and layouts.
 3. Cross-Platform Support: Microsoft Edge is available on multiple platforms, including Windows, macOS, Android, and iOS. It allows users to synchronize their browsing data, including bookmarks, browsing history, and passwords, across devices, enabling a seamless browsing experience.
 4. Privacy and Security: Edge emphasizes user privacy and offers several built-in features to enhance security. It includes options like tracking prevention, secure browsing (HTTPS), and a built-in password manager. It also integrates with Windows Defender SmartScreen to protect against malicious websites and downloads.
 5. Extensions and Add-ons: Microsoft Edge supports a wide range of extensions and add-ons, allowing users to enhance their browsing experience with additional functionality. Users can

access the Microsoft Edge Add-ons store to browse and install extensions for various purposes, such as ad blocking, productivity tools, and developer tools.

6. Integration with Microsoft Services: Edge integrates with Microsoft services and features to provide a more connected experience. It offers seamless integration with Microsoft accounts, allowing users to sync settings, favorites, and other data. Edge also integrates with other Microsoft products like Office Online and Windows Timeline.

7. Productivity and Customization: Microsoft Edge includes features that enhance productivity and customization. It offers a built-in reading mode for distraction-free reading, a built-in PDF viewer, and the ability to annotate web pages. Users can customize the browser's appearance, behavior, and privacy settings to suit their preferences.

8. Developer Tools: Edge provides a comprehensive set of developer tools for web developers. It includes features like an interactive DOM explorer, a JavaScript console, performance analysis tools, and emulation modes for different devices. These tools assist in web development, debugging, and testing.

9. Accessibility Features: Edge prioritizes accessibility and includes features to support users with disabilities. It offers built-in accessibility options, such as support for screen readers, high contrast mode, and keyboard navigation enhancements, ensuring a more inclusive browsing experience.

10. Continuous Updates: Microsoft Edge receives regular updates and improvements, including security patches, bug fixes, and feature enhancements. Users can benefit from the latest web technologies, performance optimizations, and security updates by keeping their browser up to date.

Microsoft Edge aims to provide a fast, secure, and user-friendly browsing experience. Its integration with Microsoft services, support for cross-platform usage, and focus on privacy and security make it a viable option for users across different devices and operating systems.

Analysis

Analysis for an online hotel management system involves evaluating various factors to determine its feasibility, effectiveness, and potential impact on the hotel's operations. Here are some key areas to consider during the analysis:

1. Operational Efficiency: Analyze how the online hotel management system can streamline and optimize various operational processes, such as reservation management, check-in/check-out procedures, room allocation, housekeeping tasks, billing and invoicing, and reporting. Identify opportunities for automation, reduction of manual tasks, and overall process improvement.
2. Guest Experience Enhancement: Assess how the system can improve the overall guest experience. Analyze features such as online booking capabilities, personalized guest profiles, seamless communication with guests, automated service requests, mobile check-in/check-out options, and loyalty program integration. Consider how these features can enhance guest satisfaction, loyalty, and retention.
3. Revenue Management: Evaluate how the system can contribute to revenue optimization. Analyze its ability to manage pricing and rate strategies, track room occupancy and revenue performance, integrate with distribution channels and online travel agencies (OTAs), manage packages and promotions, and generate detailed financial reports. Assess how these functionalities can maximize revenue potential and improve financial performance.
4. Data Insights and Analytics: Analyze the system's reporting and analytics capabilities. Evaluate its ability to generate real-time and comprehensive reports on occupancy rates, revenue, guest preferences, operational efficiency, and other key metrics. Consider how these insights can drive data-driven decision-making, identify trends, and support strategic planning.
5. Integration with External Systems: Assess the system's integration capabilities with external systems and platforms, such as property management systems (PMS), channel managers, online travel agencies (OTAs), payment gateways, and accounting software. Analyze the extent of integration, data synchronization, and compatibility to ensure seamless data exchange and efficient operations.

6. Security and Data Protection: Evaluate the system's security features and data protection measures. Assess its ability to protect guest information, comply with data privacy regulations, implement user access controls, and ensure secure data storage and transmission. Consider the system's vulnerability to potential security breaches and its ability to mitigate risks.
7. Scalability and Performance: Analyze the system's scalability to accommodate the hotel's growth and changing needs. Assess its performance capabilities under various load conditions, including peak booking periods. Consider its ability to handle increasing volumes of reservations, users, and transactions without compromising system speed, stability, or functionality.
8. User-Friendliness and Adoption: Assess the system's user interface (UI) and user experience (UX) design. Analyze its ease of use, intuitiveness, and accessibility across different devices and platforms. Consider how staff members will adapt to and adopt the system, the training requirements, and the potential for resistance to change.
9. Cost-Benefit Analysis: Conduct a cost-benefit analysis to assess the financial viability of implementing the online hotel management system. Consider the initial investment, ongoing maintenance costs, potential savings from process automation, revenue increase from improved efficiency, and other financial factors. Evaluate the return on investment (ROI) and payback period.
10. Risk Assessment: Identify potential risks and challenges associated with implementing and using the online hotel management system. Analyze the impact of system failures, data breaches, vendor dependencies, staff training issues, or inadequate technical support. Develop contingency plans and mitigation strategies to address these risks.

By conducting a thorough analysis of these factors, hotels can make informed decisions about implementing an online hotel management system. The analysis helps identify the system's potential benefits, drawbacks, and its alignment with the hotel's goals and operational requirements.

Requirement Determination

Requirement determination for an online hotel management system involves a detailed analysis of the hotel's needs and desired functionalities. Here is a comprehensive breakdown of the steps involved in requirement determination:

1. Identify Stakeholders: Identify the key stakeholders involved in the hotel management system, including hotel owners, managers, staff members from different departments (front desk, housekeeping, finance, etc.), and guests. Understand their roles, responsibilities, and expectations regarding the system.
2. Gather User Requirements: Conduct interviews, surveys, and workshops with the stakeholders to gather their requirements. Understand their pain points, challenges, and the functionalities they expect from the online hotel management system. This includes features related to reservations, check-in/check-out, room management, billing, reporting, housekeeping, guest communication, and integration with other systems.
3. Define System Objectives: Based on the stakeholders' input, define the primary objectives and goals of the online hotel management system. These objectives may include improving operational efficiency, enhancing guest experience, increasing revenue, automating manual processes, reducing errors, improving data accuracy, and streamlining communication.
4. Functional Requirements: Identify the functional requirements that the system should fulfill. This includes:
 - Reservation Management: Ability to accept online bookings, manage room availability, handle cancellations, and generate reservation confirmations.
 - Room Inventory Management: Capability to manage room types, assign rooms to guests, and track room status (occupied, vacant, under maintenance).
 - Guest Check-in/Check-out: System should support seamless and efficient check-in and check-out processes, including ID verification, payment processing, and key issuance.
 - Billing and Invoicing: Ability to generate accurate bills and invoices, integrate with payment gateways, handle different payment methods, and track financial transactions.

- Reporting and Analytics: System should provide comprehensive reports on occupancy rates, revenue performance, guest preferences, operational efficiency, and other key metrics.
- Housekeeping Management: Functionality to assign and track housekeeping tasks, manage room cleaning schedules, and handle maintenance requests.
- Integration with External Systems: Ability to integrate with external systems such as property management systems (PMS), central reservation systems (CRS), online travel agencies (OTAs), payment gateways, and accounting software.

5. Non-Functional Requirements: Consider the non-functional requirements that impact the system's performance, usability, and security. These may include:

- Usability and User Experience: The system should have an intuitive and user-friendly interface, support multiple languages if required, and be accessible across various devices (desktop, mobile, tablets).
- Scalability: The system should be able to handle increasing volumes of reservations, users, and transactions without compromising performance.
- Security: The system should incorporate robust security measures to protect guest data, implement user access controls, and comply with data privacy regulations.
- Reliability and Availability: The system should be highly reliable and available to ensure uninterrupted operations and minimize downtime.
- Performance: The system should perform efficiently, providing quick response times for various operations and queries.
- Data Backup and Recovery: The system should have mechanisms in place to regularly backup data and ensure the ability to recover in case of system failures.

6. Constraints and Assumptions: Identify any constraints or assumptions that may impact the system's design or implementation. These could include budget limitations, resource availability, technological constraints, regulatory requirements, or specific business rules unique to the hotel.

7. Prioritize Requirements: Once all the requirements are gathered, prioritize them based on their importance, impact on operations, and alignment with the system objectives. This helps in allocating resources effectively and ensuring that critical functionalities are addressed first.
8. Requirement Documentation: Document all the identified requirements in a clear and structured manner. Include

Targeted User

The targeted users for an online hotel management system include:

1. Hotel Owners and Management: This group includes hotel owners, general managers, and management executives who oversee the overall operations and strategic decision-making for the hotel. They require access to comprehensive data and reports to monitor performance, analyze trends, and make informed business decisions.
2. Front Desk Staff: Front desk staff members play a crucial role in managing guest reservations, check-in/check-out procedures, and addressing guest inquiries and requests. They require access to the system for managing reservations, updating guest information, assigning rooms, processing payments, and providing personalized services to guests.
3. Housekeeping Staff: Housekeeping staff members are responsible for maintaining clean and comfortable rooms for guests. They require access to the system to view room assignments, update room statuses (clean, dirty, or under maintenance), track housekeeping tasks, and communicate any maintenance or cleanliness issues.
4. Finance and Accounting Staff: The finance and accounting team manages financial aspects of the hotel, including billing, invoicing, and financial reporting. They require access to the system to generate accurate bills and invoices, track payments, reconcile accounts, and generate financial reports.
5. Sales and Marketing Team: The sales and marketing team is responsible for promoting the hotel, managing online distribution channels, and attracting guests. They require access to the system to monitor room availability, manage rates and promotions, track reservations, and analyze sales performance.

6. Revenue Managers: Revenue managers focus on maximizing hotel revenue by optimizing room rates, managing pricing strategies, and monitoring market demand. They require access to the system's revenue management tools, such as rate management, demand forecasting, competitive analysis, and performance reporting.

7. Guests: While guests are not direct users of the system, they interact with the online hotel management system through the hotel's website or mobile app. Guests use the system to make online reservations, check room availability, view booking details, modify reservations, and communicate with the hotel for special requests or inquiries.

8. Administrators and IT Staff: Administrators and IT staff members are responsible for managing and maintaining the online hotel management system. They handle system configurations, user access controls, system updates, data backups, and technical support.

It is important to consider the specific needs, roles, and responsibilities of each user group when designing an online hotel management system. The system should provide user-friendly interfaces, role-based access controls, and relevant functionalities to ensure efficient operations, streamlined processes, and enhanced guest experiences.

Use case Diagram

Use case Diagram

❖ Purpose of a Use case Diagram: -

- Use case Diagram is one of them and its specific Purpose is to gather System Requirements and Actors.
- Use case Diagrams specify the events of a system and their flows.
- But Use case Diagram never describes how they are implemented.
- A Use case describes a sequence of actions that provide something of measurable value to an Actor and is drawn as a Horizontal ellipse.

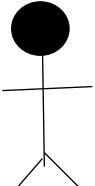
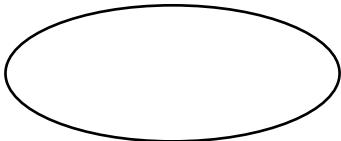
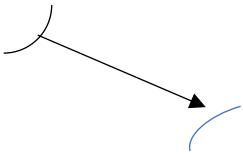
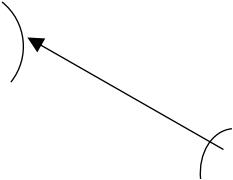
❖ Importance of Use cases: -

- Use cases are important because they are in a tracking format. Hence they make it easy to comprehend about the functional Requirements in the system and also make it easy to identify the various interactions between the Users and the Systems within an Environment.

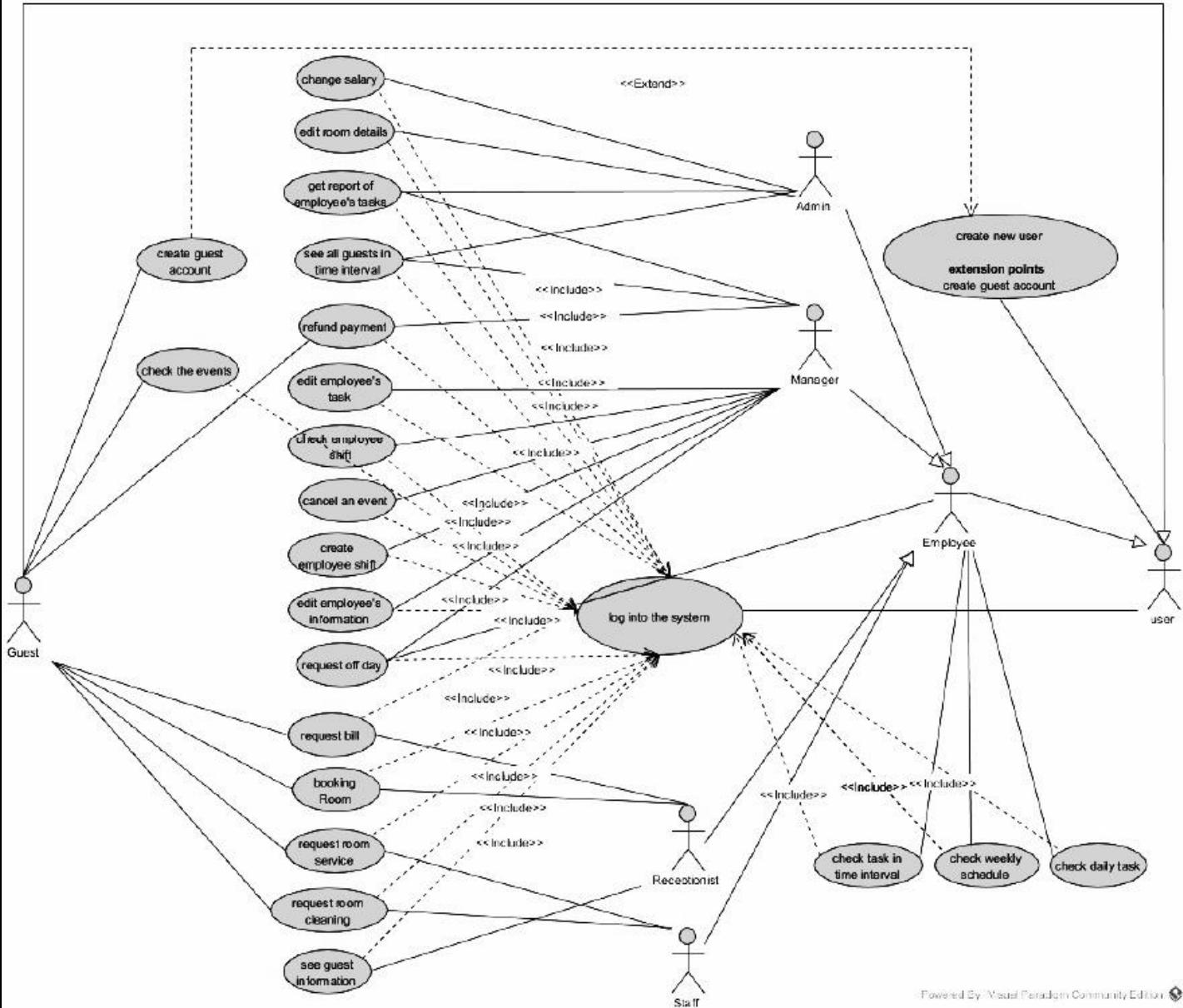
Use case Diagram Notations

Actor	Actors are usually individuals involved with the system defined According to their roles.
Use Case	A use case describes how Actors uses a system to accomplish a particular goal.
Relationship	The Relationships between and among the Actors and the Use cases.
System Boundary	Boundary of inside whole System But Actors are Outside of the System Boundary.

Symbol of Use case Diagram

Symbols	Overview
 Actor	Actors are the entities that interact with a system. Although in most cases, actors are used to represent the users of system, actors can actually be anything that needs to exchange information with the system. So, an actor may be people, computer hardware, other systems, etc.
	A use case represents a user goal that can be achieved by accessing the system or software application. In Visual Paradigm, you can make use of the sub-diagram feature to describe the interaction between user and sys within a use case by creating a sub-sequence diagram under a use case. You can also describe the use case scenario using the Flow of Events editor.
	The system can work in a system Boundary. The scope of a system can be represented by a system (shape), or sometimes known as a system boundary. The use cases of the system are placed inside the system shape, while the actor who interact with the system are put outside the system. The use cases in the system make up the total requirements of the system.
 <<include>>	An include relationship specifies how the behaviour for the inclusion use case is inserted into the behaviour defined for the base use case.
 <<Extend>>	An extend relationship specifies how the behaviour of the extension use case can be inserted into the behaviour defined for the base use case.

Use case Diagram



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Class Diagram

Class Diagram

❖ What is Class Diagram?

- A Class Diagram is an illustration of the Relationships and Source code Dependencies among Classes in the Unified Modelling Language (UML).
- In this Context, a class Defines the Methods and Variables in an Object .which is a Specific Entity in a Program or the unit of Code Representing that Entity.

❖ How do you identify Classes in Class Diagram?

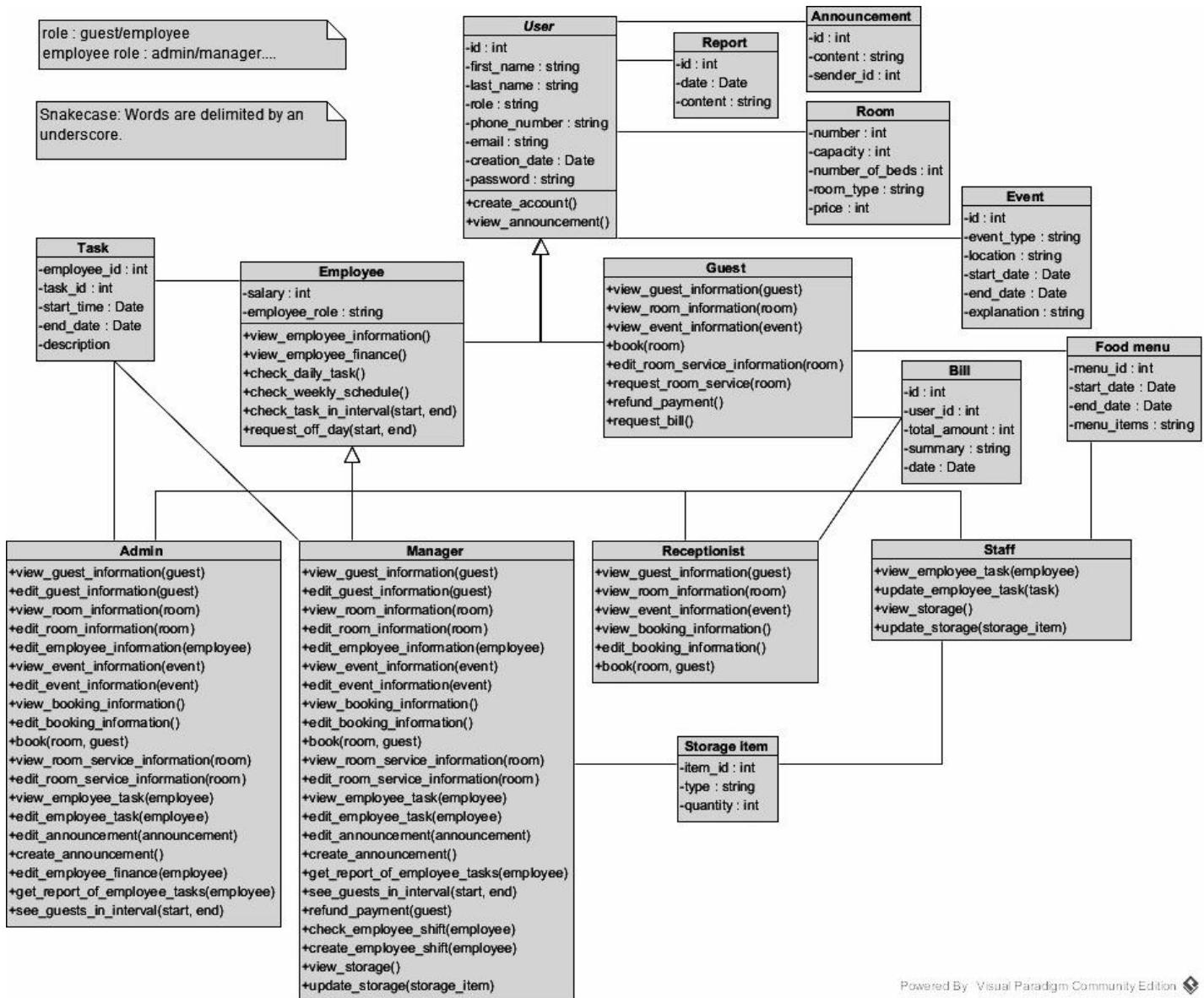
- Analysis Activities include.
- Identifying Objects (often from use cases as a starting point).
- Identifying Associations between Objects.
- Identifying General Attributes and Responsibilities of Objects.
- Modelling interactions between Objects.
- Modelling how individual Objects change state helps identify Operations.

❖ What are the Components of Class Diagram?

In Class Diagrams we work with the following elements

- Class. A Class Represents a Relevant Concept from the Domain, a set of Persons, Objects or Ideas that are depicted in the IT System.
- Attribute.
- Generalization.
- Association.
- Multiplicity.
- Aggregation.

Class Diagram



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Sequence Diagram

Sequence Diagram

❖ What is Sequence Diagram?

- Sequence Diagram Tutorial.
- A Sequence Diagram Describes an interaction among a Set of Objects Participated in a Collaboration or Scenario, Arranged in a Chronological order.
- It Shows the Objects Participating in the interaction by their "Lifelines" and "Messages" that they send to each other.

❖ What is a Sequence Diagram used for?

- UML Sequence Diagrams model the Flow of Logic within your System in a Visual manner, enabling you both to Document and Validate your Logic and are commonly used for both Analysis and Design Purposes.

❖ Why is Sequence Diagram used?

- The Sequence Diagram is a good Diagram to use to Document a System's Requirements and to flush out a System's Design. > The Reason the Sequence Diagram is so useful is because it shows the interaction Logic.
- Between the Objects in the System in the time order that the interactions take Place.

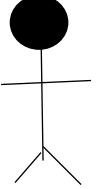
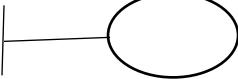
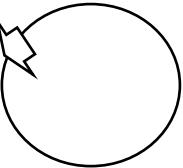
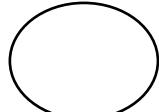
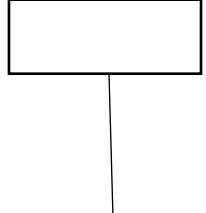
❖ Basic Sequence Diagram Notations:

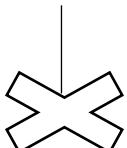
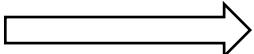
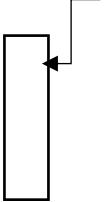
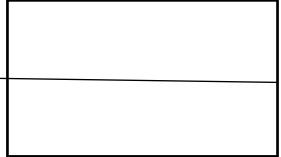
- Class Roles or Participants. Class roles describe the way an Object will behave in Context.
- Activation or Execution Occurrence. Activation boxes Represent the time an Object needs to complete a task
- Messages.
- Lifelines.
- Destroying Objects.
- Loops.
- Synchronous Message.
- Asynchronous Message.

❖ What are the Elements of Sequence Diagram?

- The Following Nodes and Edges are typically Drawn in a UML Sequence Diagram :
- Lifeline
- Execution Specification
- Message
- Combined Fragment
- Interaction Use
- State invariant
- Continuation
- Destruction Occurrence.

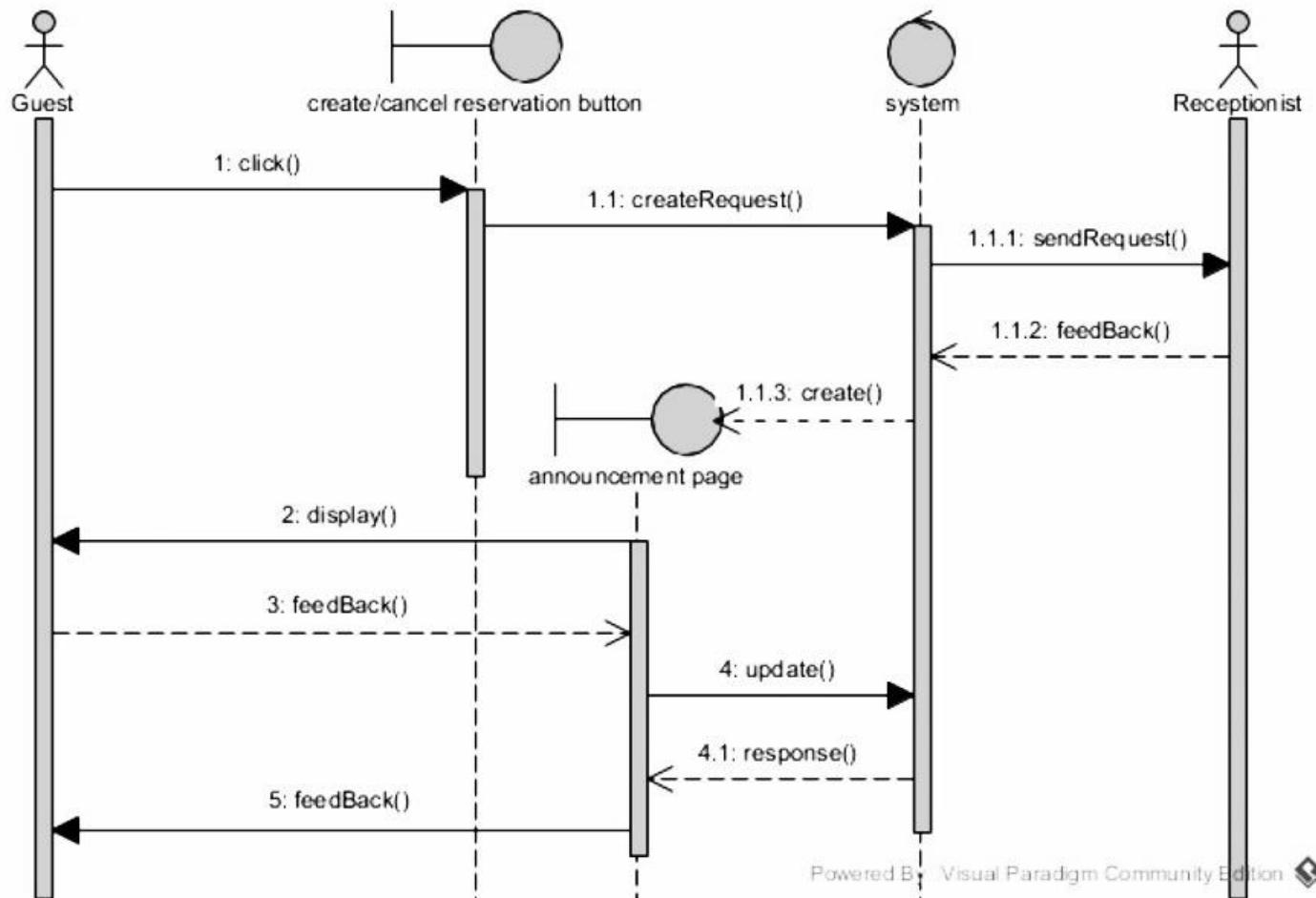
Symbol of Sequence Diagram

Symbol	Overview
 actor	<p>Actors are the entities that interact with a system. Although in most cases, actors are used to represent the users of system, actors can actually be anything that needs to exchange information with the system. So, an actor may be people, computer hardware, other systems, etc.</p>
boundary object 	<p>Objects that interface with system actors (e.g. a user or external service). Windows, screens and menus are examples of boundaries that interface with users.</p>
Control object 	<p>Objects that mediate between boundaries and entities. These serve as the glue between boundary elements and entity elements, implementing the logic required to manage the various elements and their interactions. It is important to understand that you may decide to implement controllers within your design as something other than objects-many controllers are simple enough to be implemented as a method of an entity or boundary class for example.</p>
Entity object 	<p>Objects representing system data, often from the domain model.</p>
	<p>A sequence diagram is made up of several of these lifeline notations that should be arranged horizontally across the top of the diagram. No two lifeline notations should overlap each other. They represent the different objects or parts that interact with each other in the system during the sequence.</p>

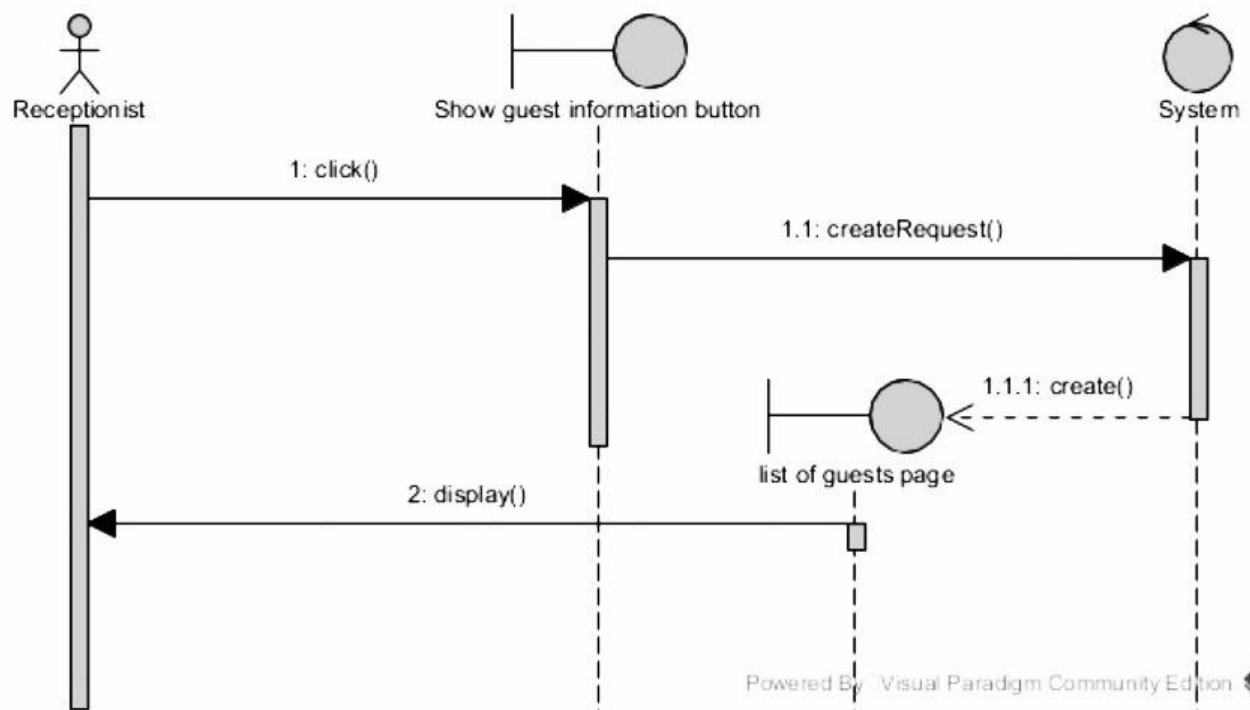
	Activation boxes represent the time an object needs to complete a task. When an object is busy executing a process or waiting for a reply message, use a thin gray rectangle placed vertically on its lifeline. To
	This Symbol is Known as lifeline end symbol. This symbol Work with lifeline.
message 	This Symbol is Known as lifeline end symbol. This symbol Work with lifeline.
return 	A reply message is drawn with a dotted line and an open arrowhead pointing back to the original lifeline.
	A message an object sends to itself, usually shown as a U shaped arrow pointing back to itself.
	This Symbol is could as AlterNet. This symbol have two parts valid and invalid part. This symbol is check condition of message when condition is true ten pass positive response otherwise pass negative response,

Sequence Diagram

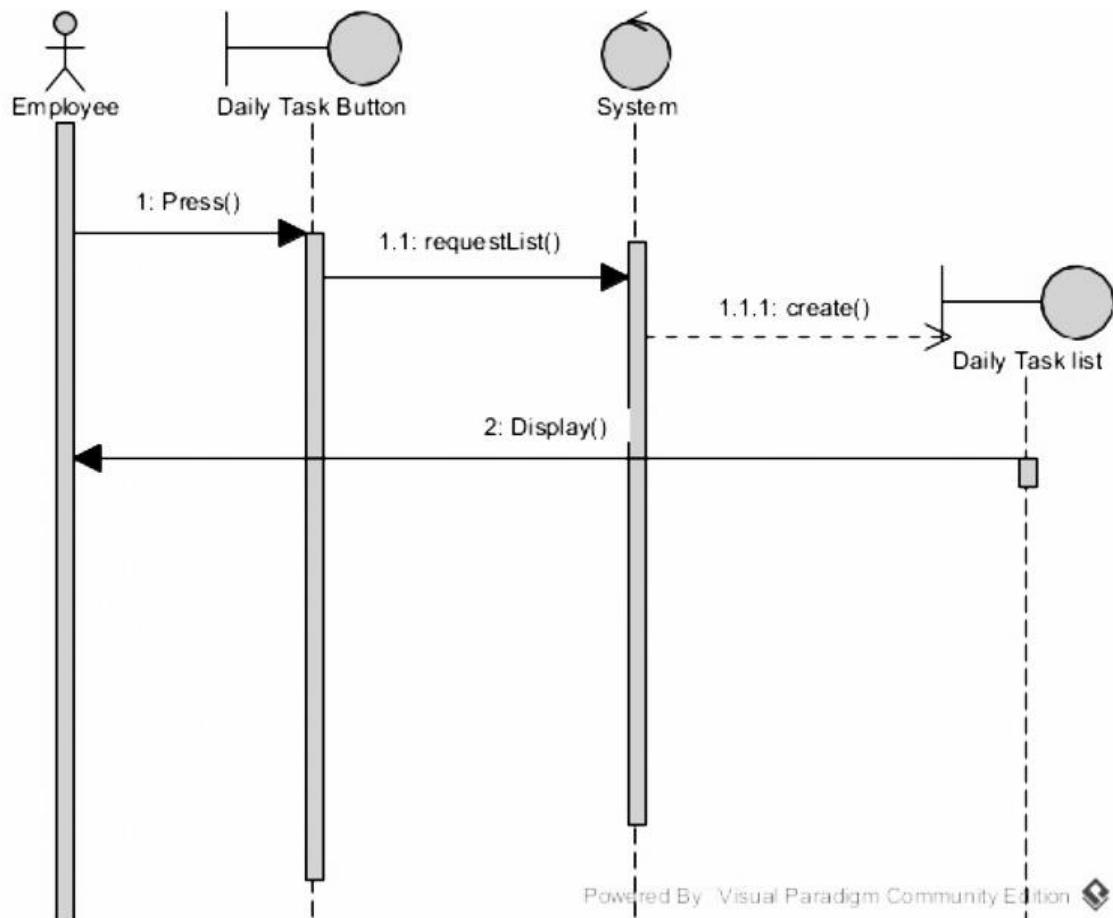
(1) Booking System



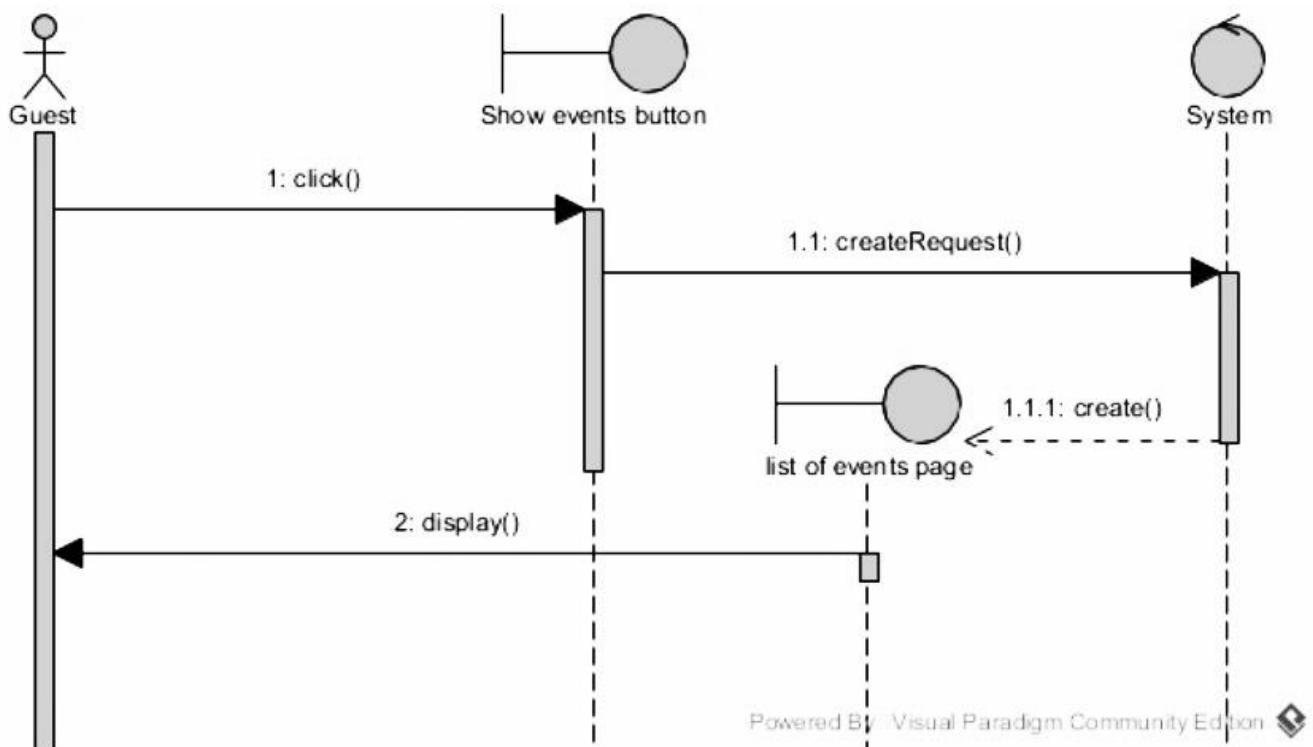
(2) See Guest information



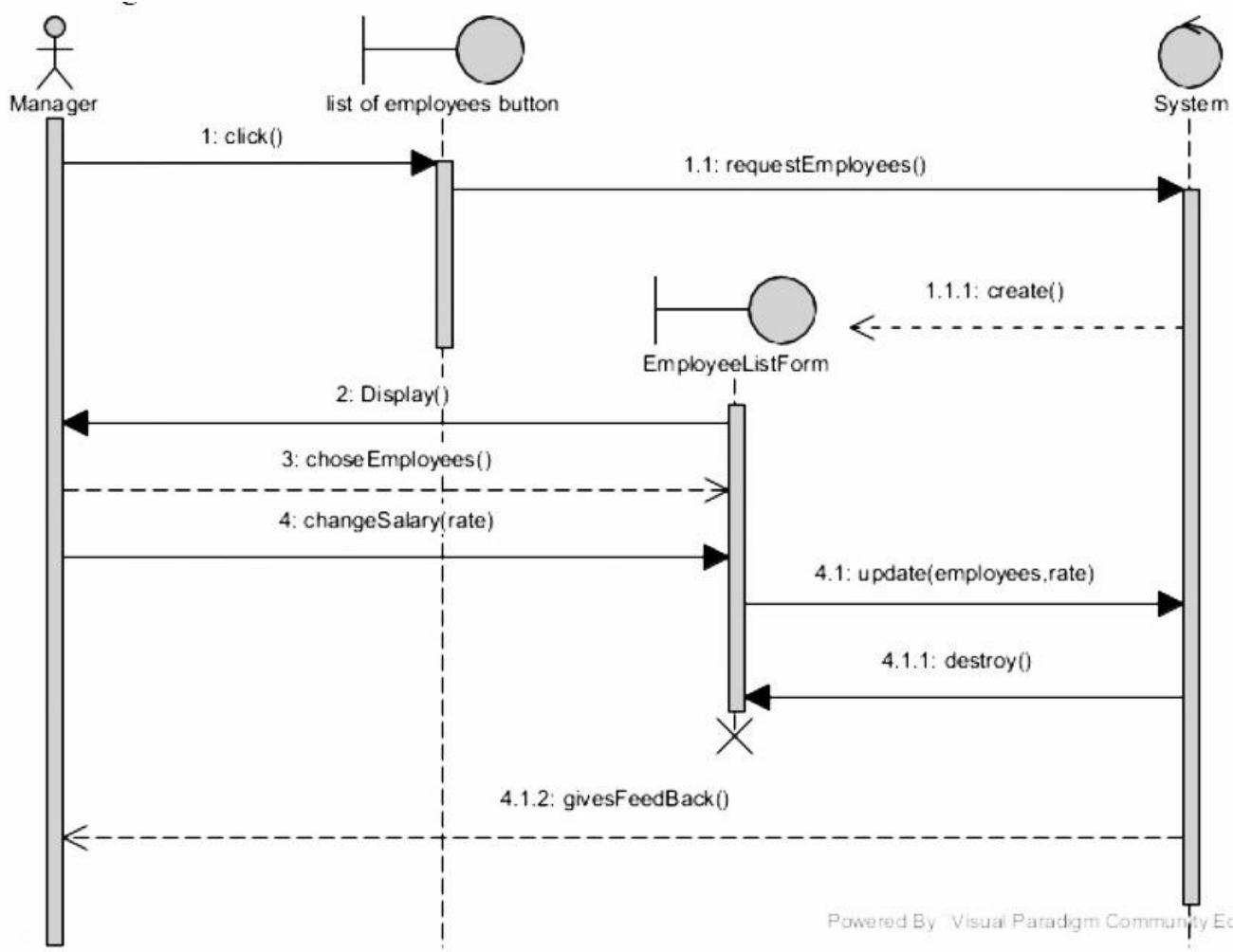
(3) Check daily task



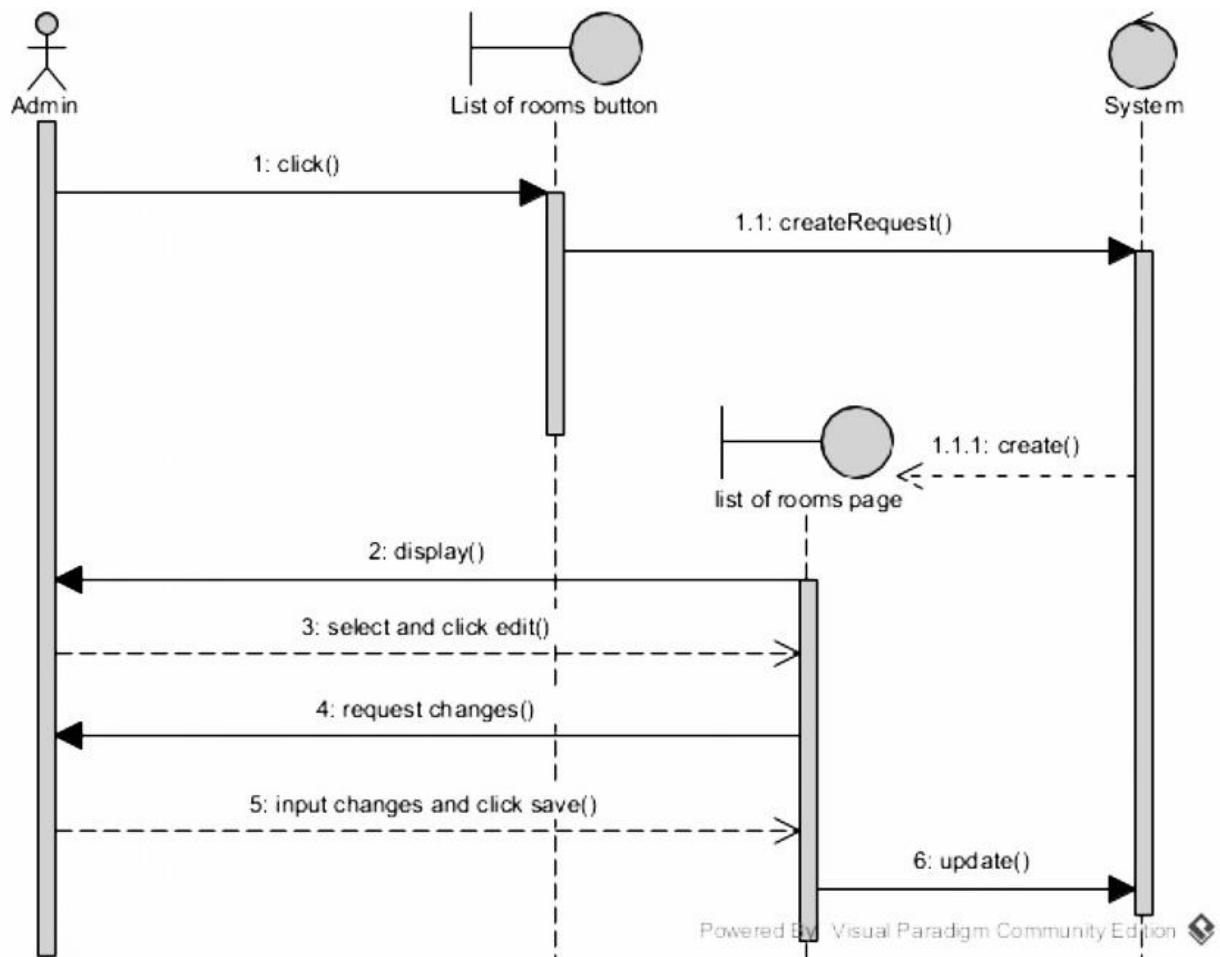
(4) Check



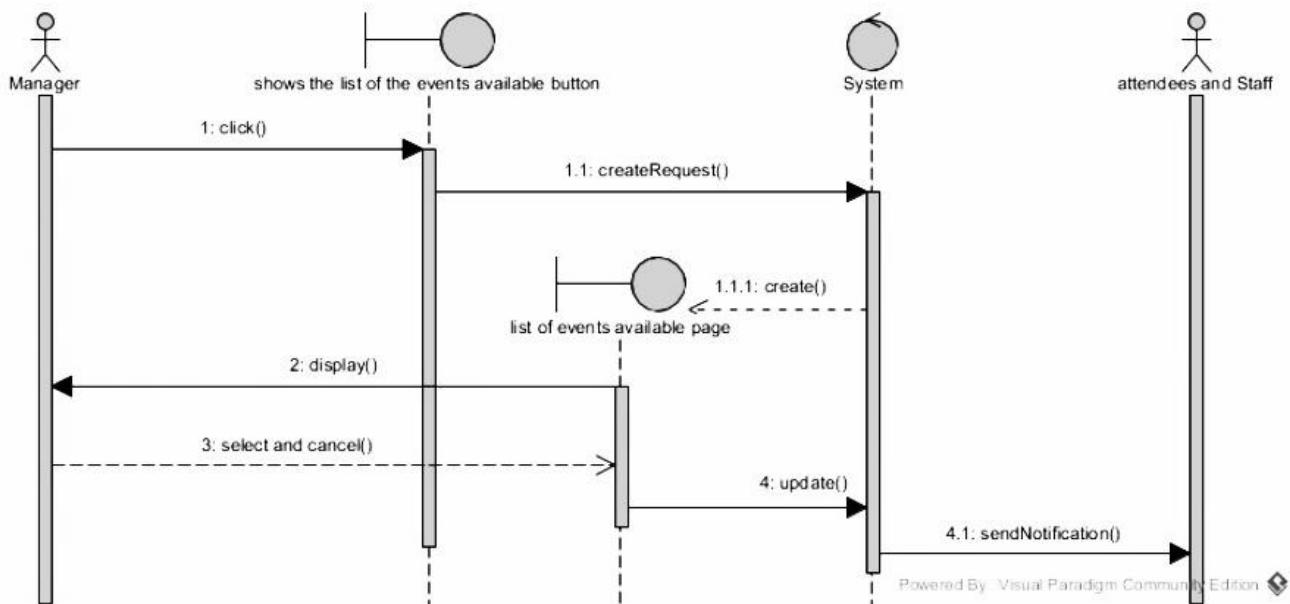
(5) Change



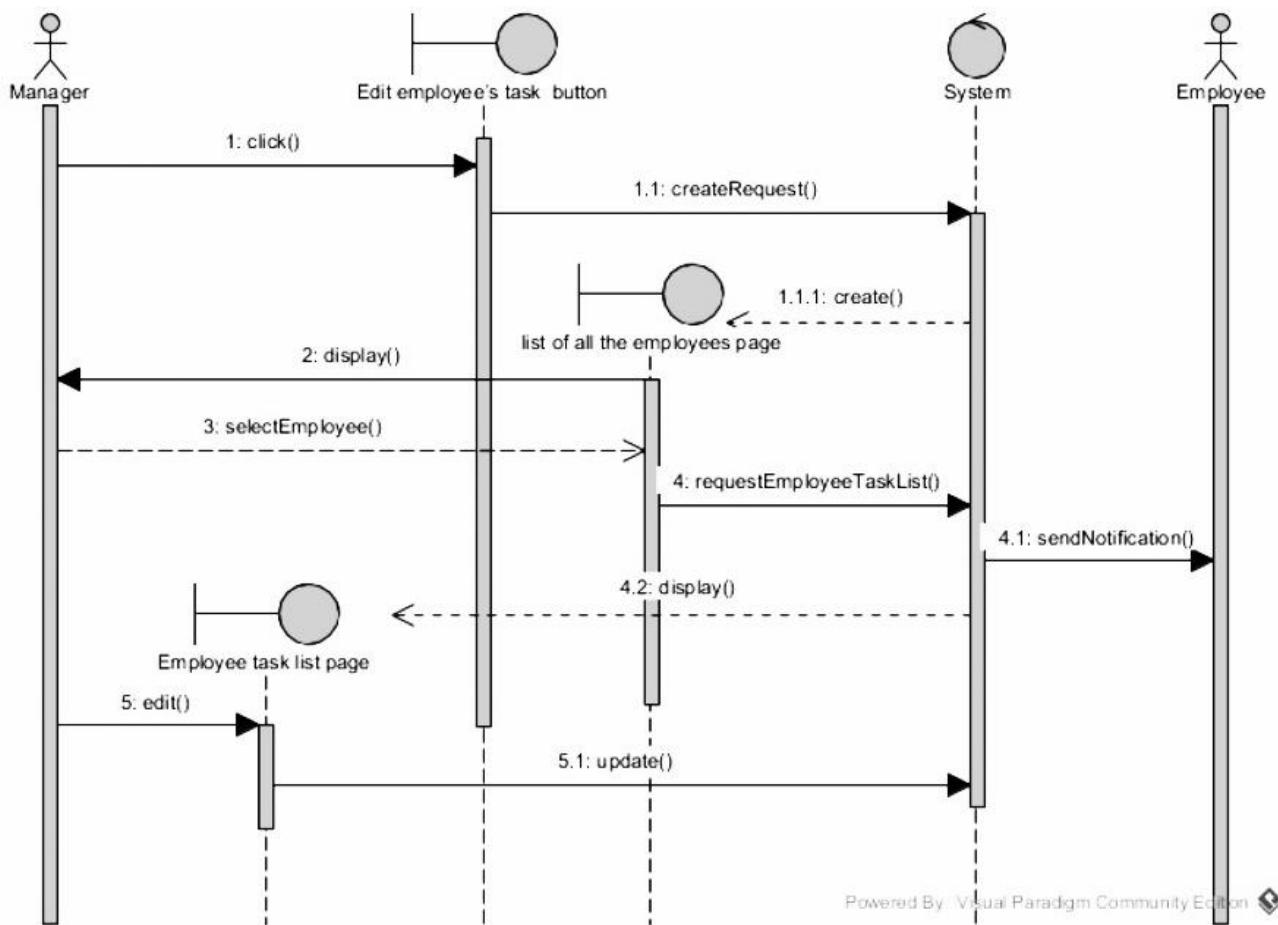
(6) Edit room details



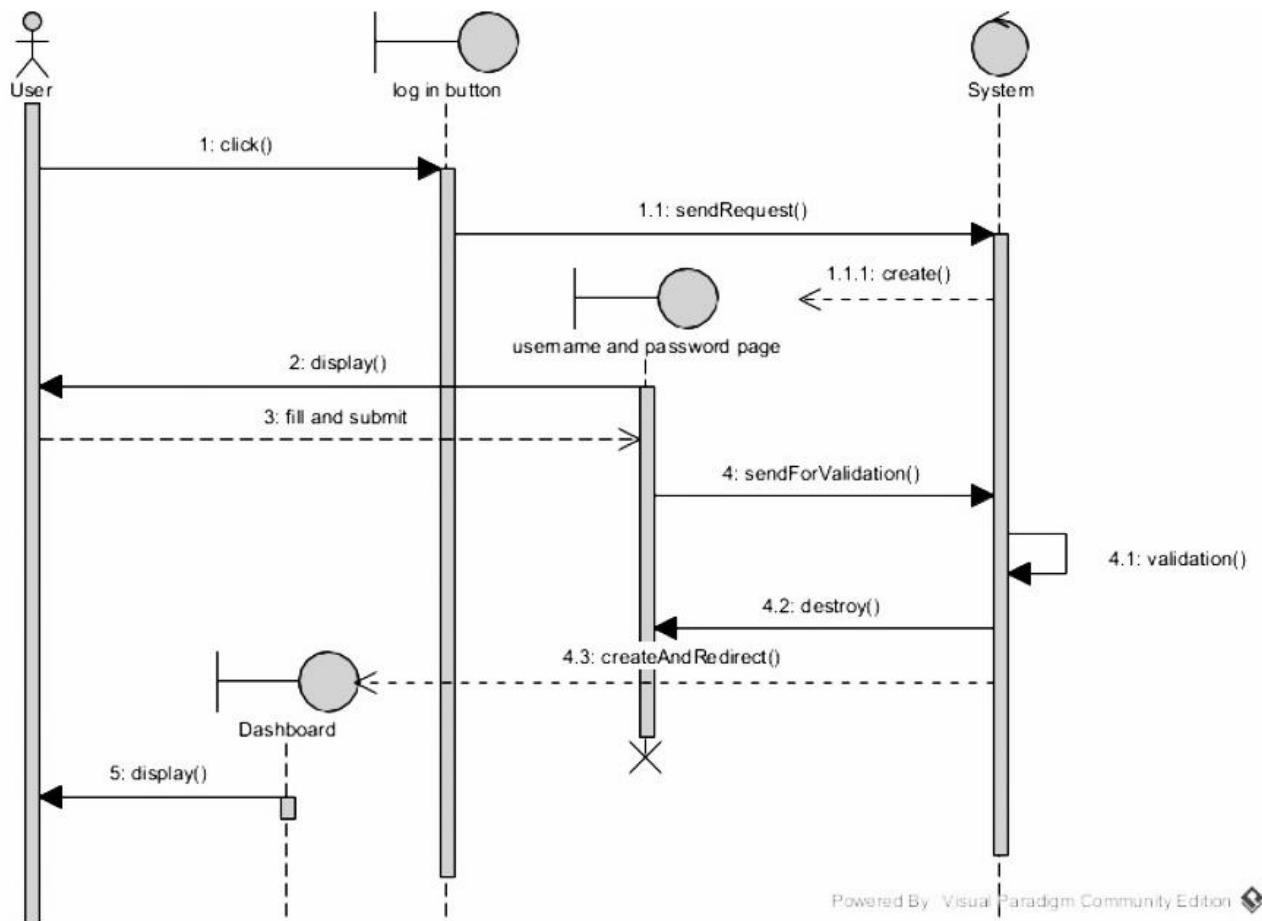
(7) Cancel



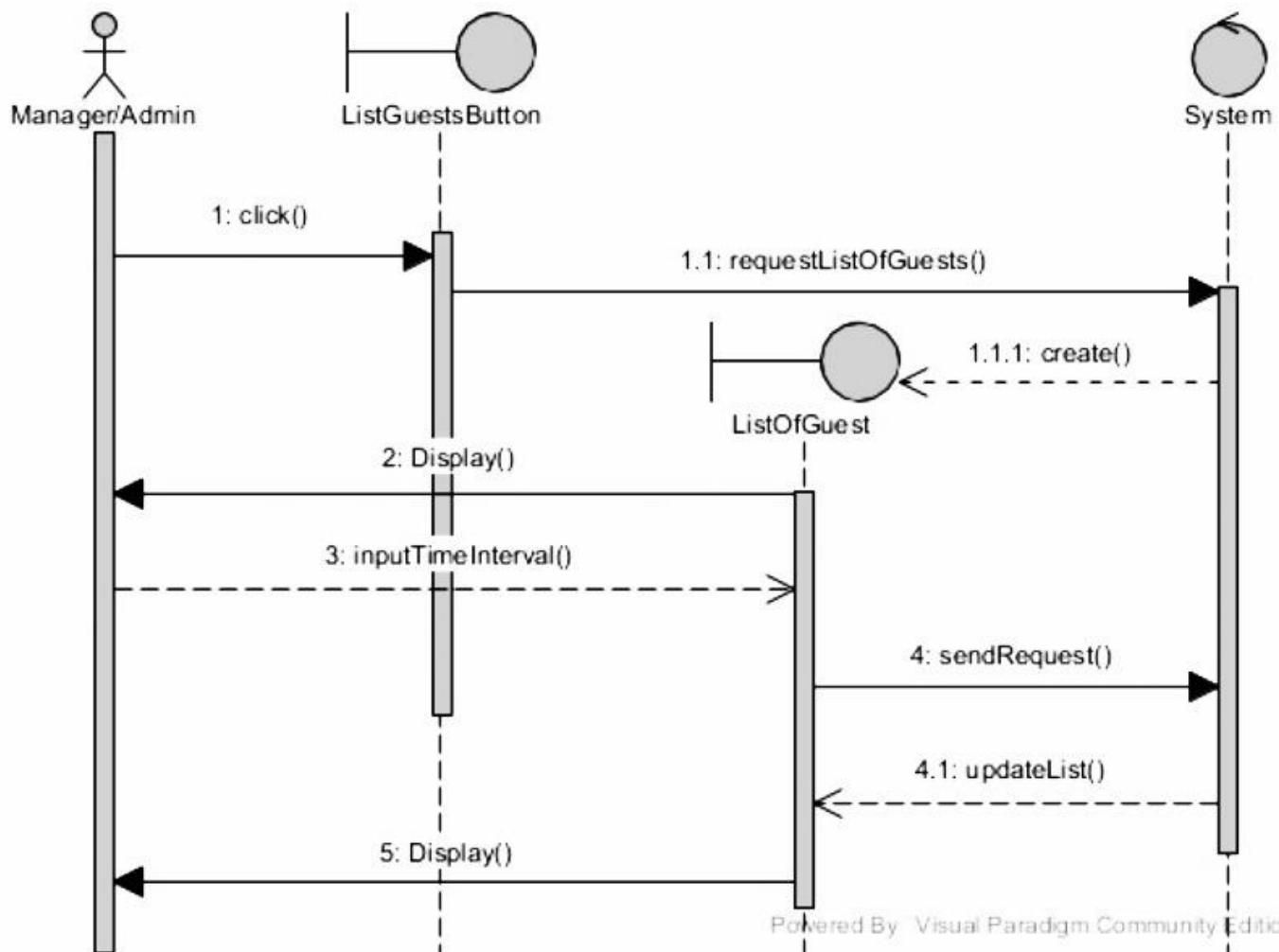
(8) Edit



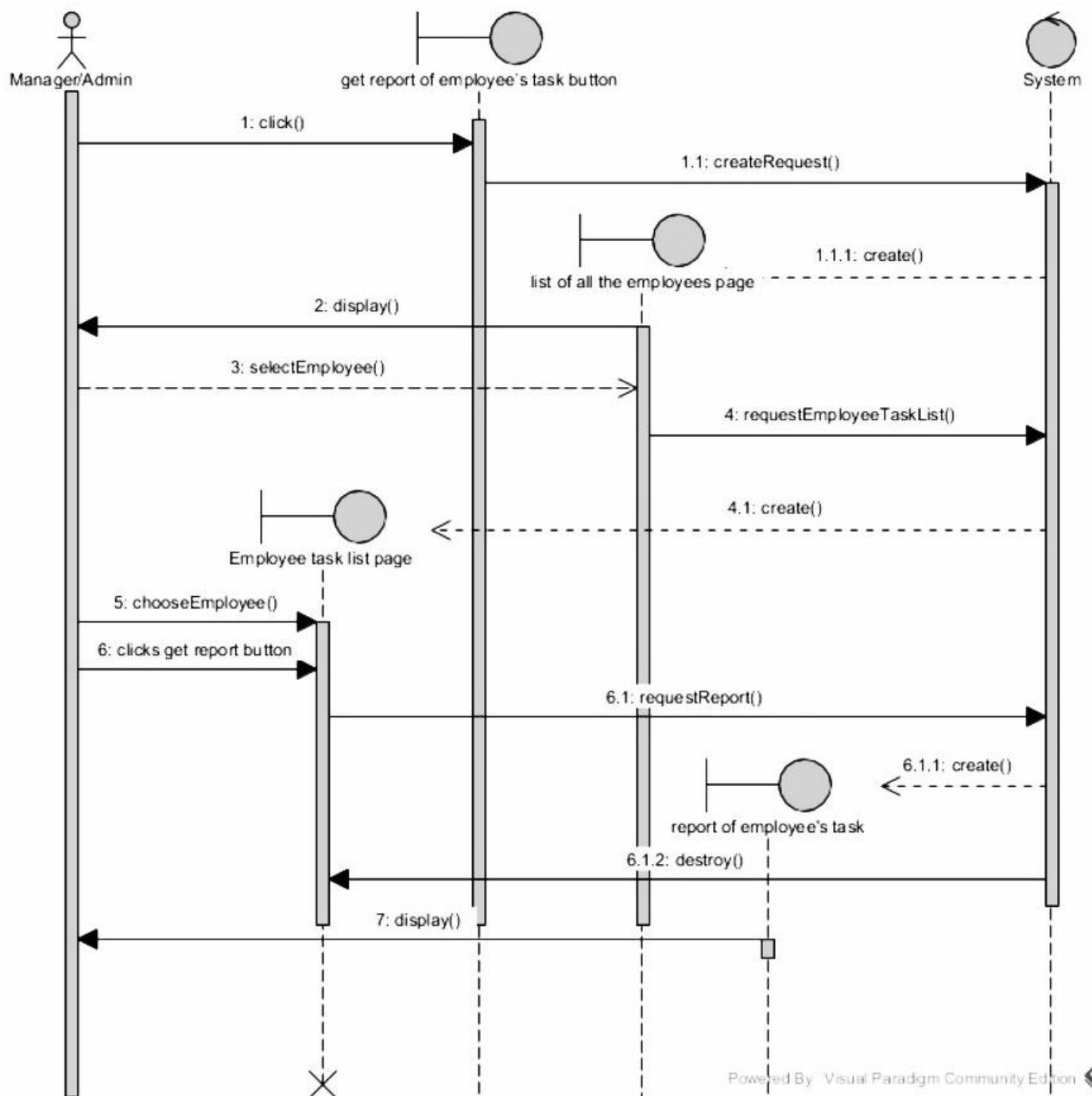
(9) Log into the system



(10) See all Guests in a specific time interval

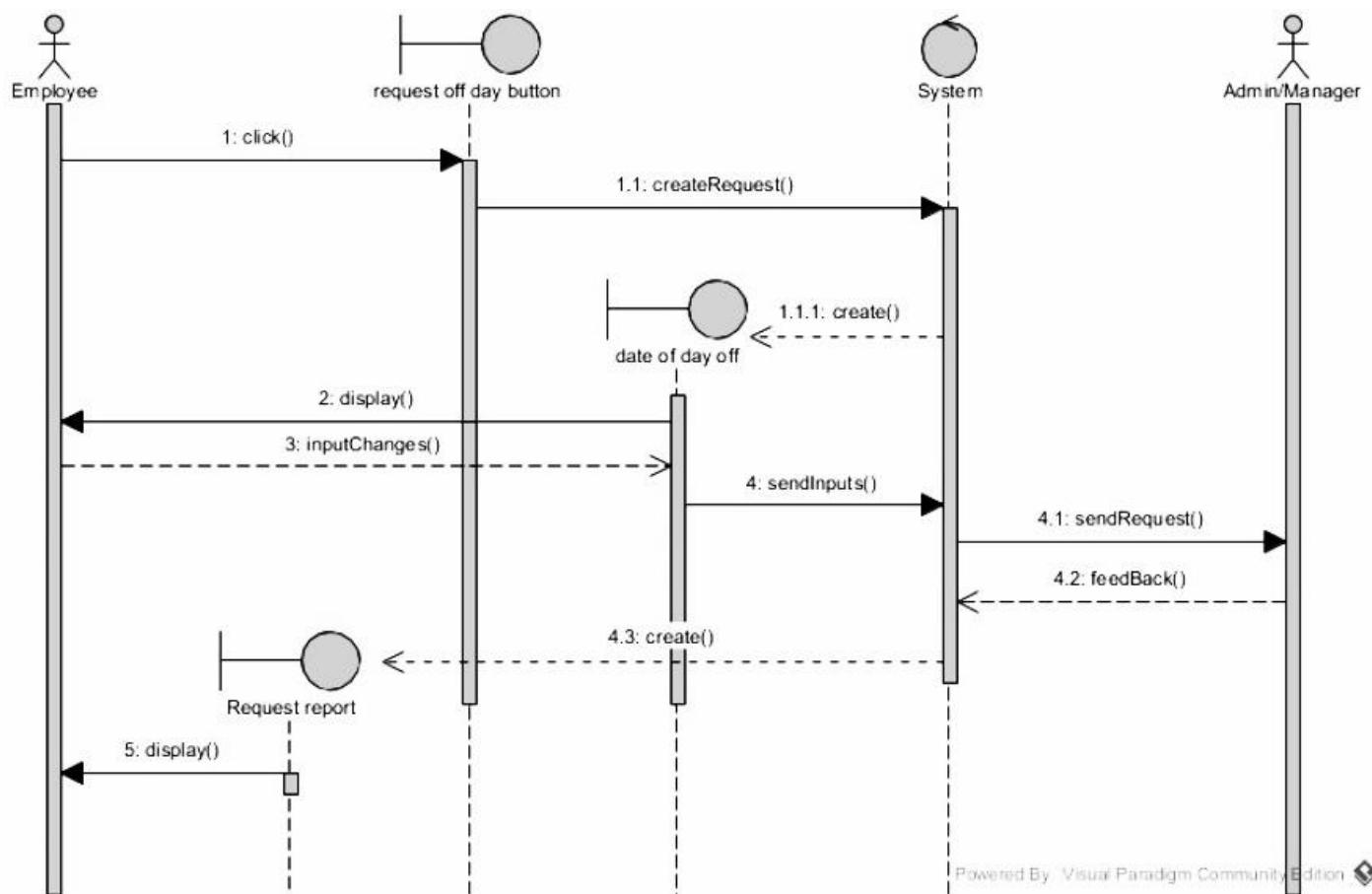


(11) Get report of employee's tasks



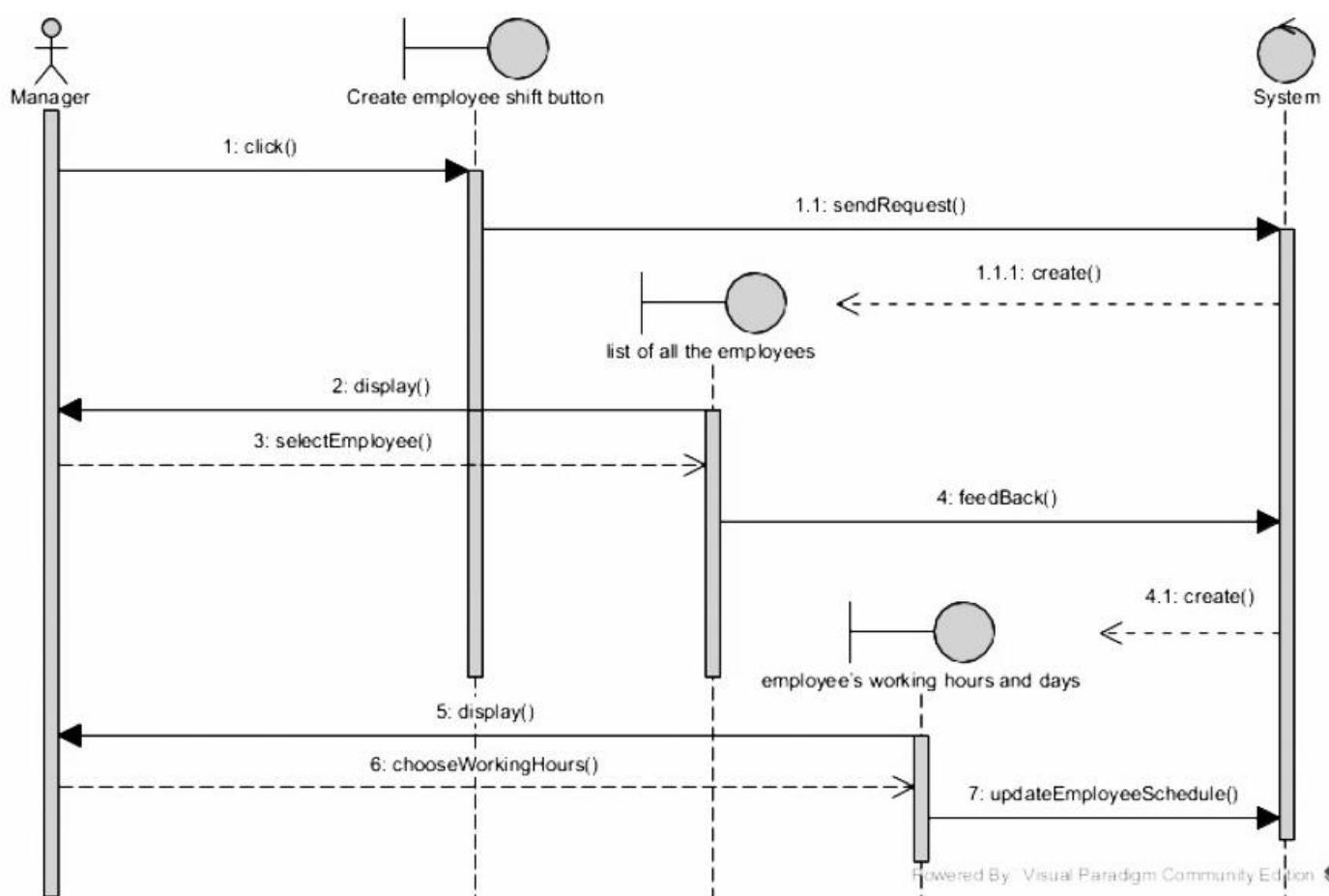
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(12) Request day off

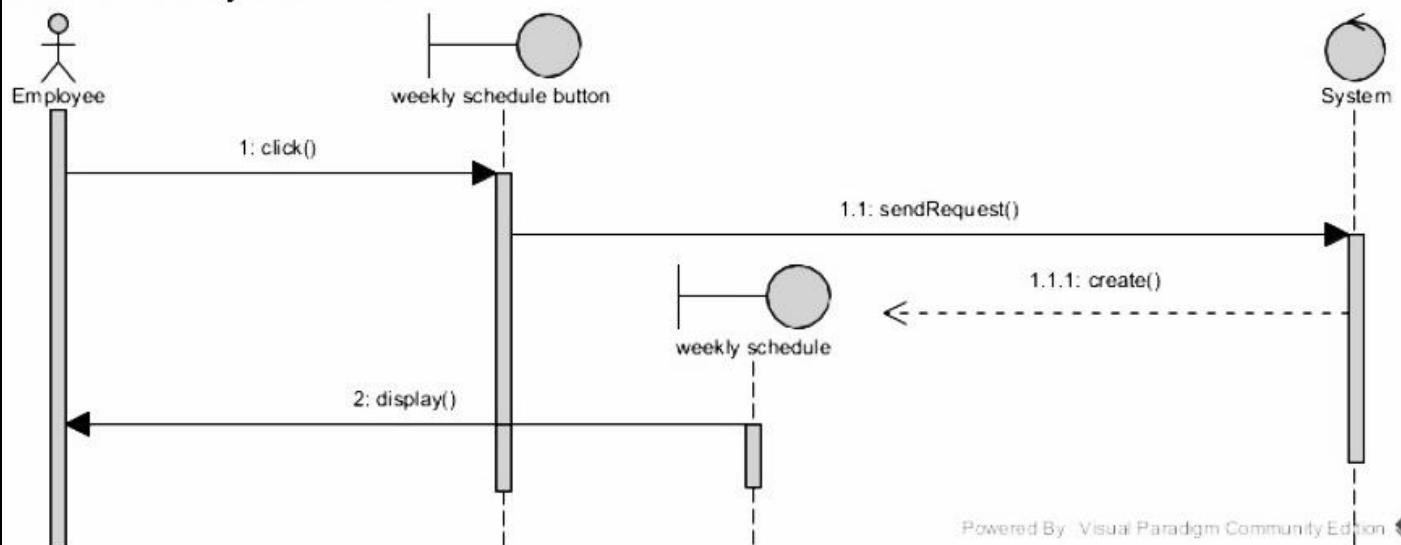


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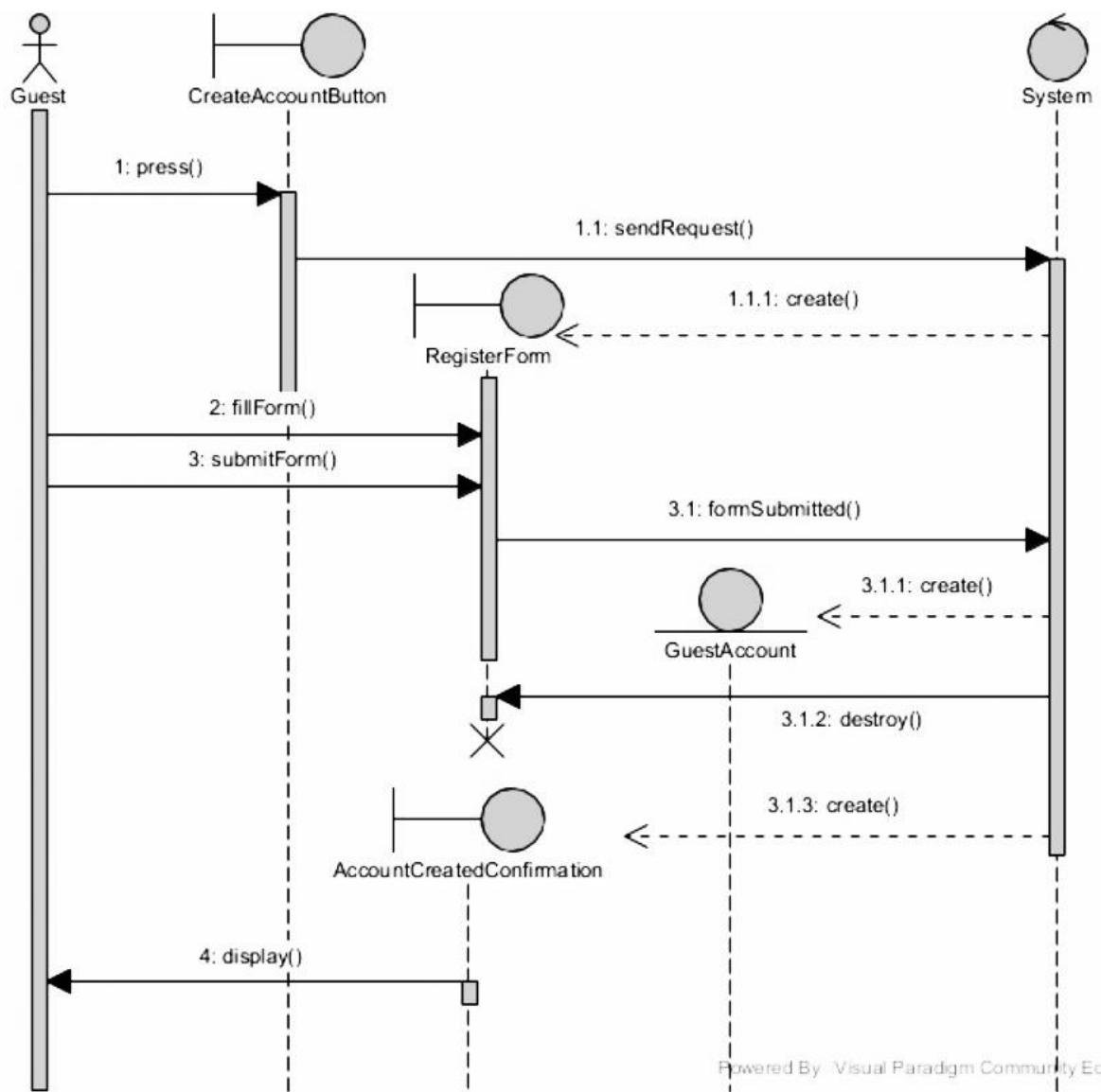
(13) Create employee shift



(14) Check weekly schedule

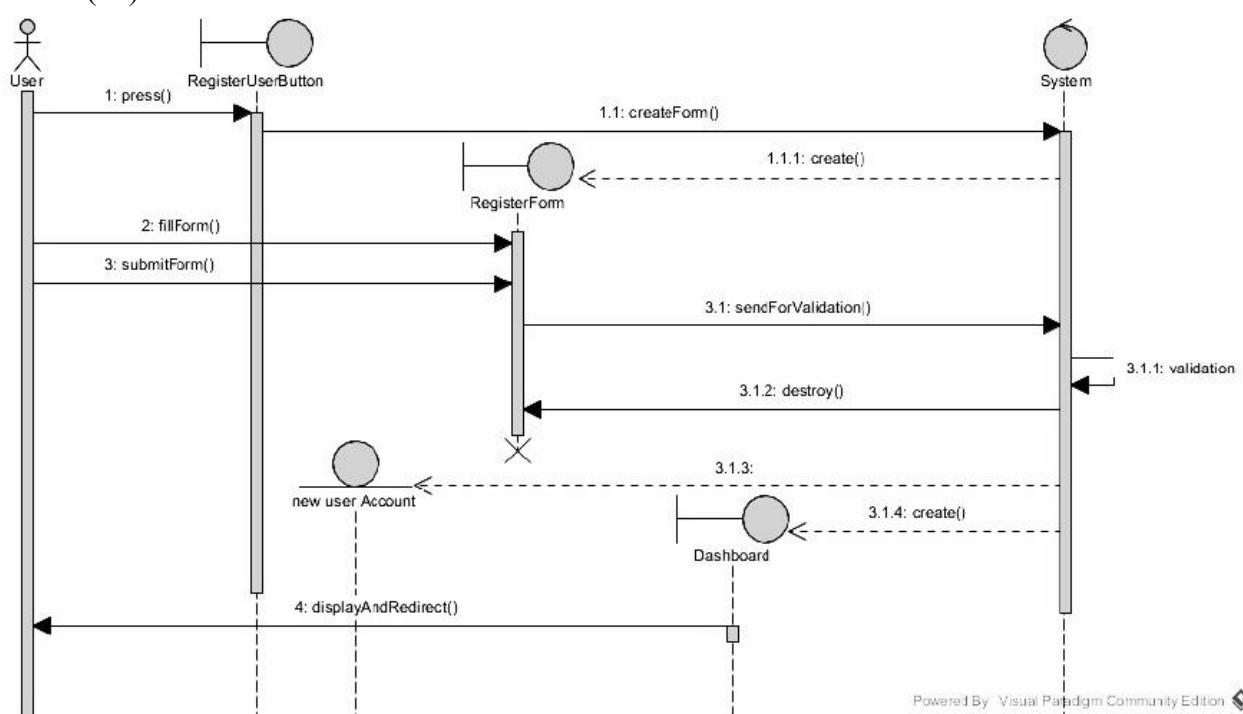


(15) Create guest account



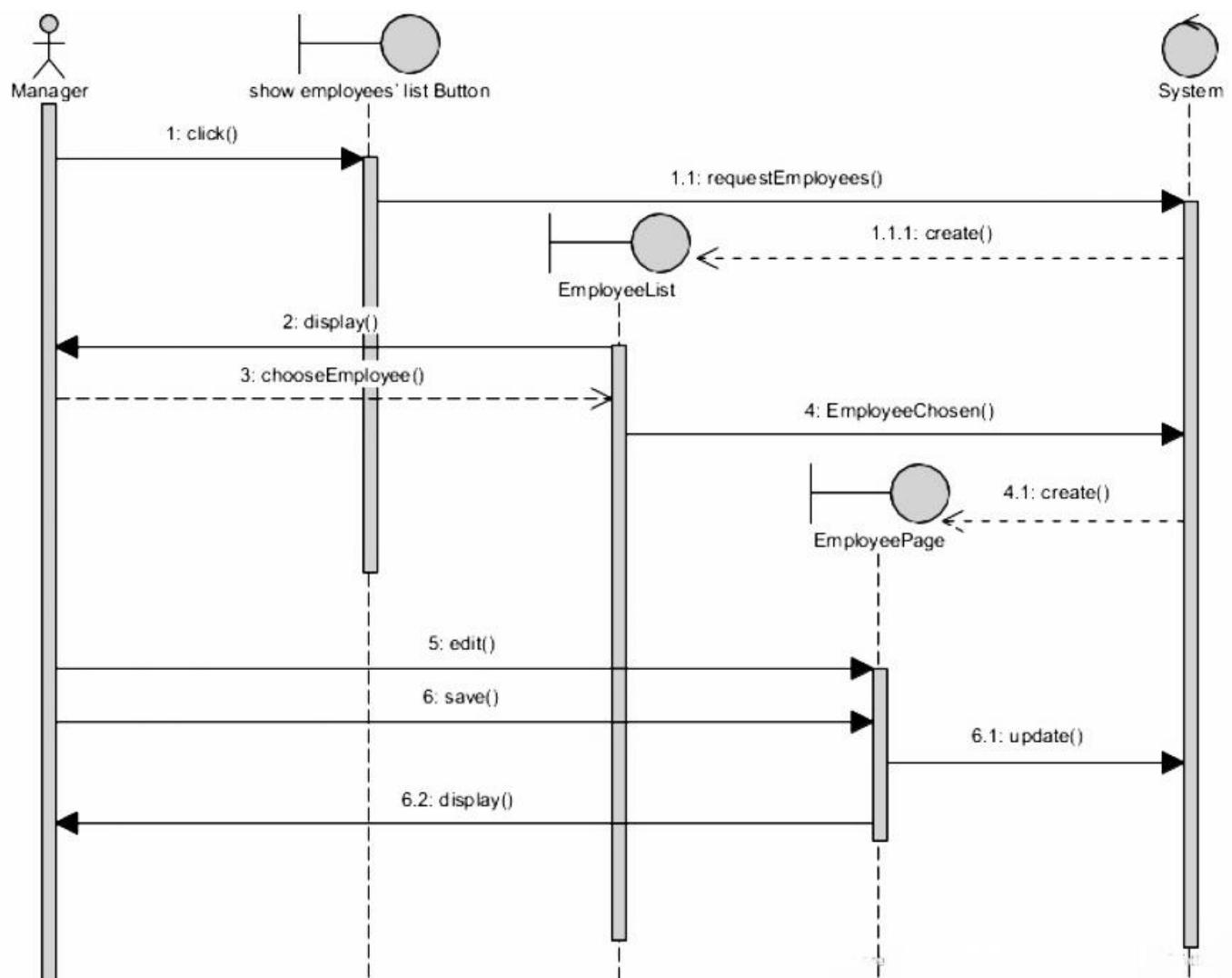
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(16) Create new user

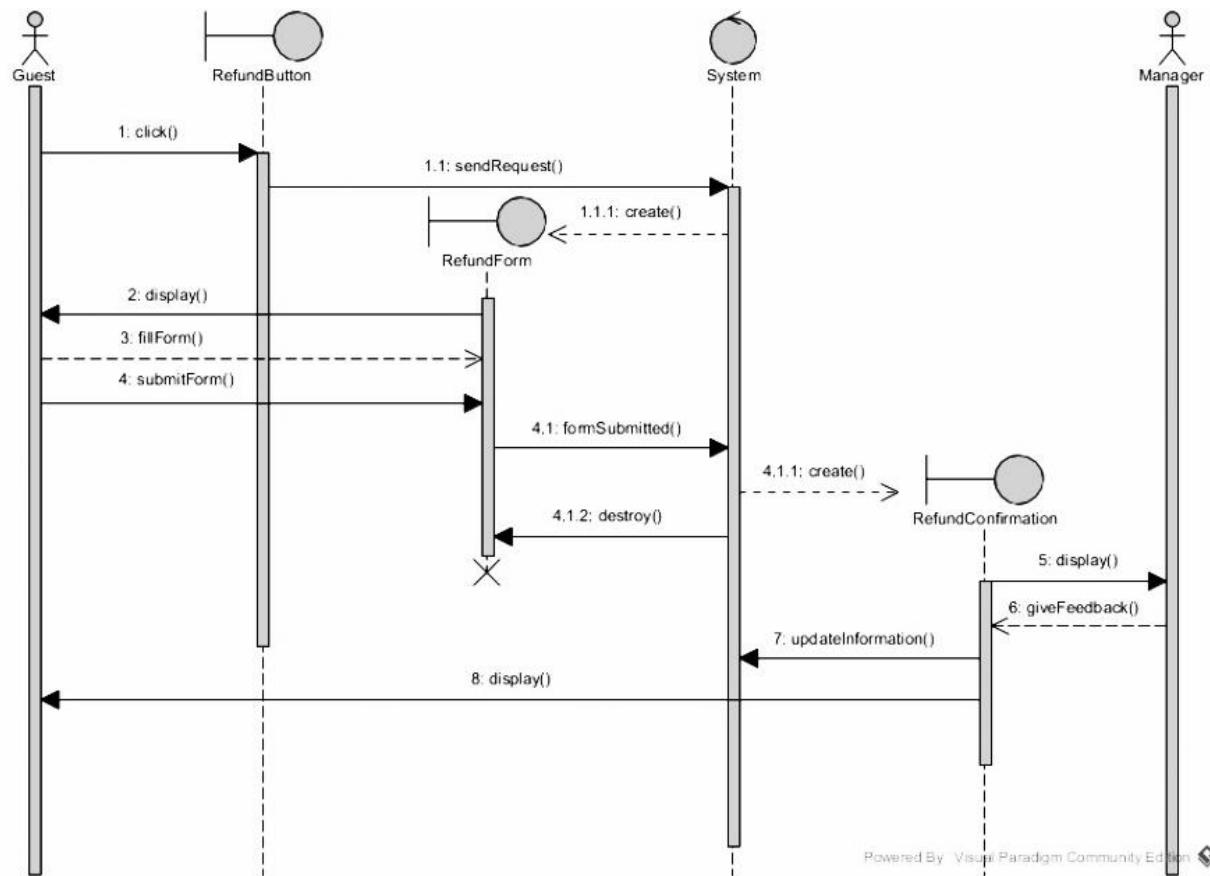


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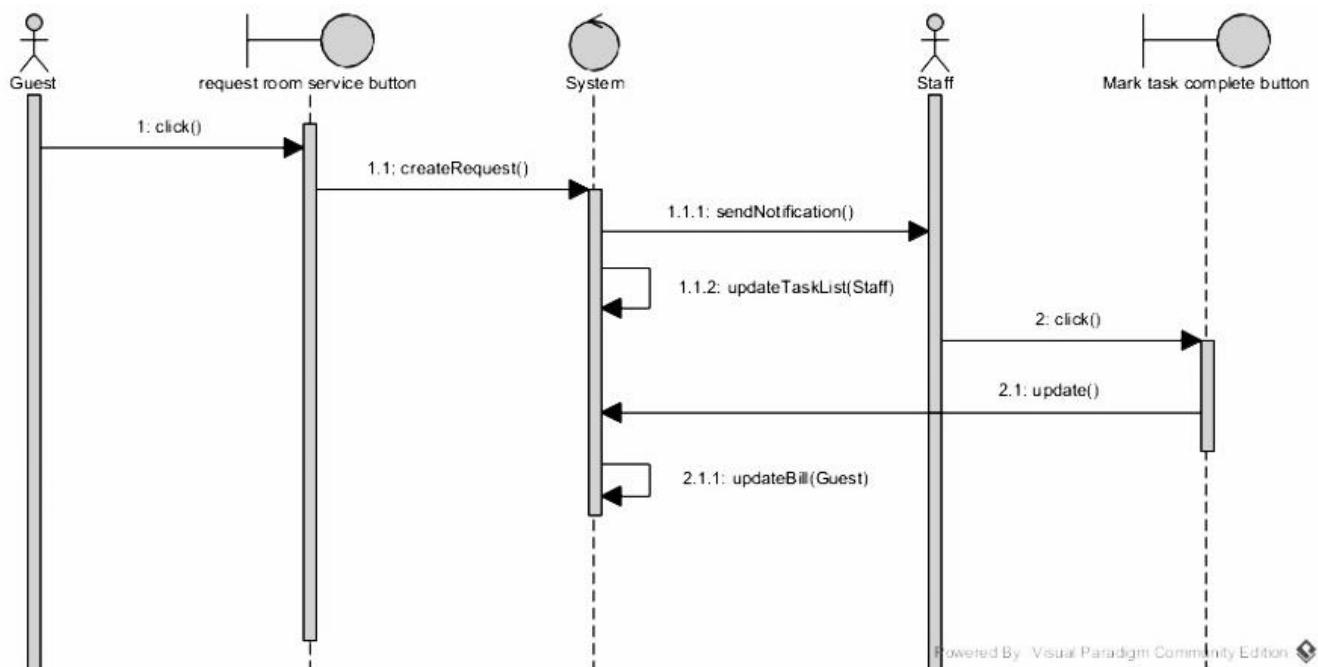
(17) Edit



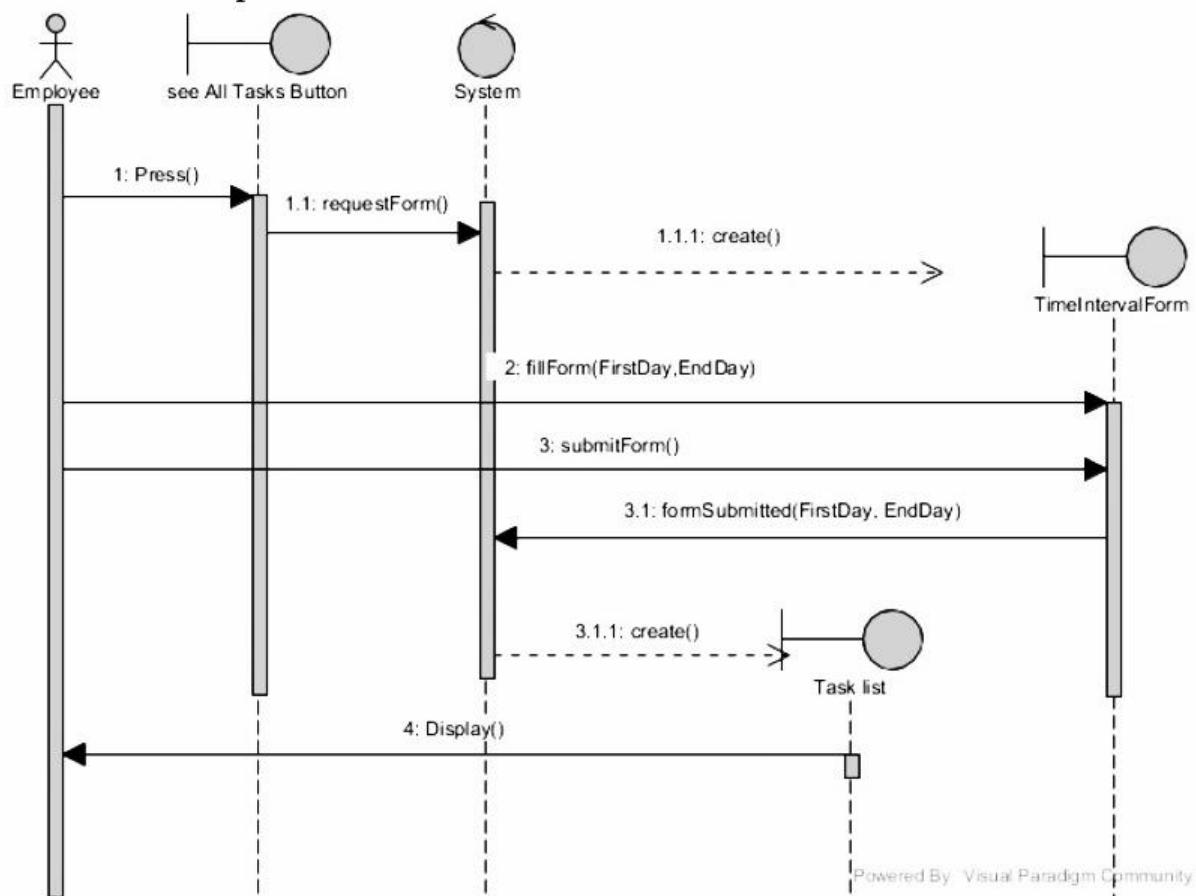
(18) Refund payment



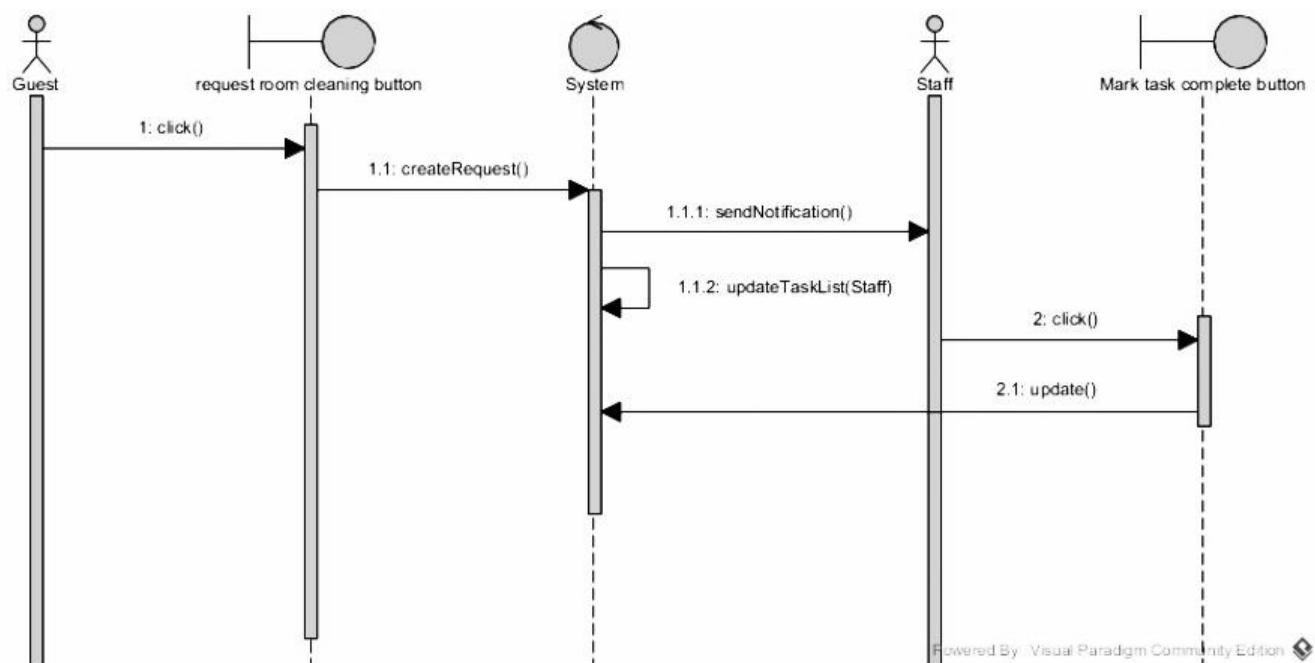
(19) Request room services



(20) Check task for specific time interval



(21) Request room cleaning



Activity Diagram

Activity Diagram

❖ What is Activity Diagram Definition?

- In Unified Modelling Language (UML), an Activity Diagram is a Graphical Representation of an executed Set of Procedural System.
- Activities and considered a State Chart Diagram variation.
- Activity Diagrams Describe Parallel and Conditional Activities Use cases and System Functions at a Detailed Level.

❖ Why do we use Activity Diagram?

- The Basic Usage of Activity Diagram is Similar to other Four UML Diagrams. The Specific Usage is to Model the Control Flow from one Activity to another.
- This Control Flow does not include Messages.
- Activity Diagram is Suitable for Modelling the Activity Flow of the System.

❖ How do you write an Activity Diagram?

In Each of these Cases, Here's How to Draw an Activity Diagram From the Beginning.

Step 1: Figure out the Action steps From the Use case.

Step 2: Identify the Actors who are involved.

Step 3: Find a Flow among the Activities.

Step 4: Add Swim lanes.

❖ What are the Elements of Activity Diagram?

Fundamental Elements of the Activity are Actions and Control Elements:

- Decision
- Division
- Merge
- Initiation etc...

Elements are connected by so-called "Activity Edges" and Form the "Control Flow", which can also be casually called "Flow".

The execution of an Activity can contain Parallel Flows.

❖ What is Swim lane Diagram?

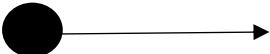
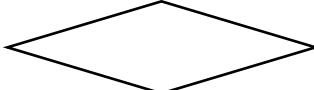
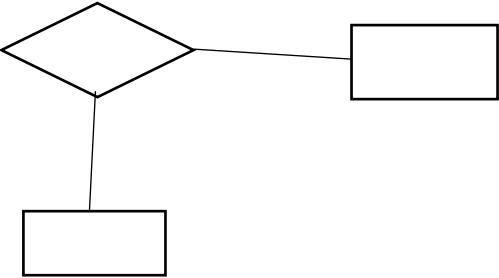
- Swim lane From Wikipedia, the Free Encyclopaedia.
- A Swim lane Diagram is used in Process Flow Diagrams or Flowcharts, that visually Distinguishes Job Sharing and Responsibilities for Sub-Processes of a Business Process.
- Swim lanes may be arranged either "Horizontally" or "Vertically".

❖ What is Swim lanes in Activity Diagram?

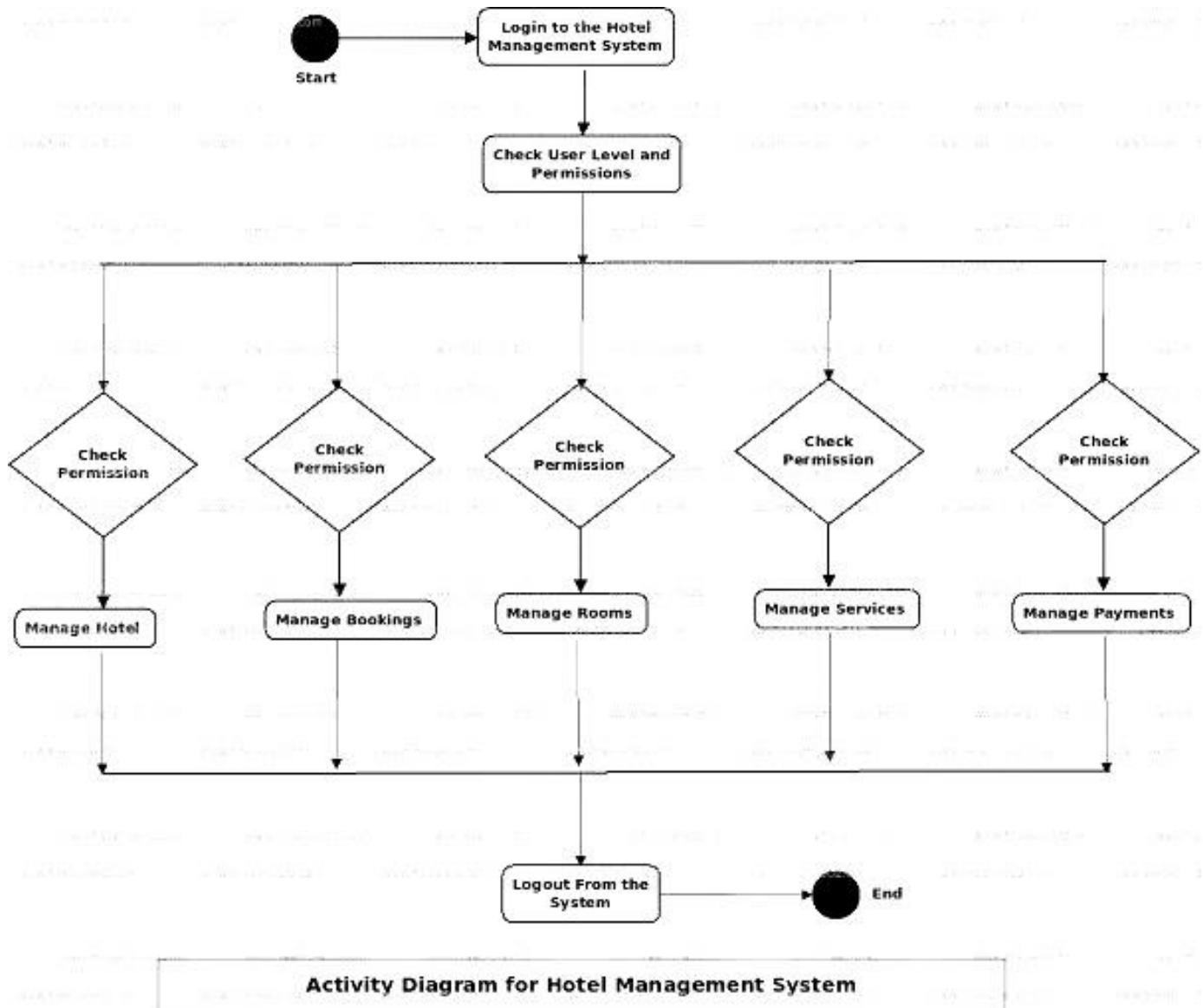
- A Swim lane Diagram is a Type of Flowchart that Delicates who does what in a Process.
- Using the Metaphor of Lanes in a Pool.

✓ A Swim lane Diagram Provides Clarity and Accountability by Placing Process Steps within the Horizontal or Vertical "Swim lanes of a Particular Employ work Group or Department.

Symbol of activity Diagram

Symbol	Overview
Start point/initial state 	A small filled circle followed by an arrow represents the initial action state or the start point for any activity diagram. For activity diagram using swim lanes, make sure the start point is placed in the top left corner of the first column.
End point symbol 	An arrow pointing to a filled circle nested inside another circle represents the final action State (Ending Point).
Activity 	An action state represents the non-interruptible action of objects. You can draw an action state in Smart-Draw using a rectangle with rounded corners.
Action flow 	Action flows, also called edges and paths, illustrate the transitions from one action state to another. They are usually drawn with an arrowed line.
Decision symbol 	A diamond represents a decision with alternate paths. When an activity requires a decision prior to moving on to the next activity, add a diamond between the two activities. The outgoing alternates should be labeled with a condition or guard expression. You can also label one of the paths "else."
Guard system 	In UML, guards are a statement written next to a decision diamond that must be true before moving next to the next activity. These are not essential, but are useful when a specific answer, such as "Yes, three labels are printed," is needed before moving forward.

Activity Diagram



Data Dictionary

Data Dictionary

❖ What is Data Dictionary?

- Data dictionary is a centralized repository of metadata. Metadata is data about.
- Data. Some examples of what might be contained in an organization's data dictionary include: The data types, e.g., integer, real, character, and image of all fields in the organization's databases.

❖ What are the benefits of Data Dictionary?

- There are a number of advantages of using Data Dictionary in computer system analysis and design.
- The advantages are: consistency, clarity; reusability; completeness; increase in sharing and integration; and ease of use for the developer.

❖ Why do we need a Data Dictionary?

- A successful data dictionary can improve the reliability and dependability of an organization's data, reduce redundancy, improve documentation and control, and make it easier to analyse data.
- Use it to make evidence-based care decisions like those common in accountable care organizations.

Table Name : django_migrations

Description :

Field name	Data Type	Description	Allow Null	Constrains
Id	integer	Its primary key of table	no	Primary key
app	Varchar(255)	Its describe table of the database	no	
name	Varchar(255)	Its describe name	no	
applied	datetime	Its describe applied details	no	

Table Name : sqllite_sequence

Description :

Field name	Data Type	Description	Allow Null	Constrains
name	-		no	
seq	-		no	

Table Name : auth_group_permissions

Description :

Field name	Data Type	Description	Allow Null	Constrains
Id	integer	Its primary key of table	no	Primary key Foreign key (auth_group/group_id auth_permission/permission_id)
Group_id	integer	Its describe group_id	no	Foreign key
Permission_id	integer	Its describe permission_id	no	Foreign key

Table name : auth_user_groups

Description :

Field name	Data Type	Description	Allow Null	Constrains
Id	integer	Its primary key of table	no	Primary key Foreign key (auth_group/group_id auth_user/user_id)
Group_id	integer	Its describe group_id	no	Foreign key
User_id	integer	Its describe User_id	no	Foreign key

Table name : auth_user_user_permissions

Description :

Field name	Data Type	Description	Allow Null	Constrains
Id	integer	Its primary key of table	no	Primary key Foreign key (auth_permission/permission_id auth_user/user_id)
user_id	integer	Its describe user_id	no	Foreign key
permission_id	integer	Its describe permission_id	no	Foreign key

Table name : account_employee

Description :

Field name	Data Type	Description	Allow Null	Constrains
Id	integer	Its primary key of table	no	Primary key Foreign key (auth_user/user_id)
Phone number	Varchar(128)	Its describe phone number of employee	no	
salary	Real	It's describe salary of employee	no	
User_id	integer	Foreign key of other table	no	Foreign key

Table name : account_task

Description :

Field name	Data Type	Description	Allow Null	Constrains
Id	integer	Its primary key of table	no	Primary key Foreign key (account_employee/employee_id)
Start time	date	Its describe starttime	no	
End time	date	Its describe endtime	no	
description	text	Its describe Description	no	
employee_id	integer	Its describe employee_id	no	Foreign key

Table name :accounts_guest

Description :

Field name	Data Type	Description	Allow Null	Constrains
Id	integer	Its primary key of table	no	Primary key Foreign key (auth_user/user_id)
Phone number	Varchar(128)	Its describe employee phone number	no	
user_id	integer	Its describe user_id	no	Foreign key

Table name : django_admin_log

Description :

Field name	Data Type	Description	Allow Null	Constrains
Id	integer	Its primary key of table	no	Primary key Foreign key (auth_user/user_id Django_content_type/content_type_id)
Action_time	datetime	Its describe action_time	no	
Object_id	text	Its describe object_id	no	
Object_repr	Varchar(200)	Its describe Object_repr	no	
Change_message	text	Its describe change_message	no	
Content_type_id	integer	Its describe content_type_id	no	Foreign key
User_id	integer	Its describe user_id	no	Foreign key
Action_flag	Smallint unsigned	Its describe action_flag	no	

Table name :django_content_type

Description :

Field name	Data Type	Description	Allow Null	Constrains
Id	integer	Its primary key of table	no	Primary key
App_label	Varchar(100)	Its describe app_label	no	
model	Varchar(100)	Its describe model	no	

Table name : auth_permission

Description :

Field name	Data Type	Description	Allow Null	Constrains
Id	integer	Its primary key of table	no	Primary key Foreign key (django_content_type /content_type_id)
Content_type_id	integer	Its describe phone number of employee	no	Foreign key
Codename	Varchar(100)	It's describe salary of employee	no	
Name	Varchar(255)	Foreign key of other table	no	

Table name :auth_group

Description :

Filed name	Data type	description	Allow null	Constrains
ID	Int	Its primary key of table	No	Primary key
Name	Varchar(150)	Its describe name	No	

Table name : hotel_annoucement

Description :

Field name	Data Type	Description	Allow Null	Constrains
Id	integer	Its primary key of table	no	Primary key Foreign key (accounts_employee/sender_id)
content	Text	Its describe content	no	
date	Date	Its describe Date	no	
Sender_id	integer	Its describe Sender_id	no	Foreign key

Table name : auth_user

Description :

Field name	Data Type	Description	Allow Null	Constrains
Id	integer	Its primary key of table	No	Primary key
Password	Varchar(150)	Its describe password	No	
Last_login	datetime	Its describe last_login	No	
Is_superuser	Bool	Its describe it_superuser	No	
Username	Varchar(150)	Its describe username	No	
Last_name	Varchar(150)	Its describe last_name	No	
Email	Varchar(254)	Its describe Email id	No	
Is_staff	bool	Its describe is_staff	No	
Is_active	bool	Its describe is_active	No	
Date_joined	datetime	Its describe Joining date	No	
First_name	Varchar(150)	Its describe first_name	No	

Table name : hotel_event

Description :

Field name	Data Type	Description	Allow Null	Constrains
Id	integer	Its primary key of table	no	Primary key
Event_type	Varchar(20)	Its describe Event_type	no	
Location	Varchar(100)	Its describe location	no	
startdate	Date	Its describe Startdate	no	
enddate	date	Its describe Enddate	no	
explanation	text	Its describe explanation	no	

Table name : hotel_foodmenu

Description :

Field name	Data Type	Description	Allow Null	Constrains
Id	integer	Its primary key of table	no	Primary key
Start time	date	Its describe Starttime	no	
End time	date	Its describe End time	no	
menuitems	text	Its describe Menuitems	no	

Table name : hotel_report

Description :

Field name	Data Type	Description	Allow Null	Constrains
Id	integer	Its primary key of table	no	Primary key
date	Date	Its describe date	no	
content	Text	Its describe content	no	

Table name : hotel_storage

Description :

Field name	Data Type	Description	Allow Null	Constrains
Id	integer	Its primary key of table	no	Primary key
itemname	Varchar(100)	Its describe item_name	no	
itemtype	Varchar(20)	Its describe itemtype	no	
Quantity	Integer	Its describe Quantity	no	

Table name : hotel_eventattendees

Description :

Field name	Data Type	Description	Allow Null	Constrains
Id	integer	Its primary key of table	no	Primary key Foreign key (account_guest/guest_id hotel_event/event_id)
numberofdependees	Integer	Its describe numberofdependees	no	
Event_id	Integer	Its describe event_id	no	Foreign key
Guest_id	integer	Its describe guest_id	no	Foreign key

Table name : hotel_bills

Description :

Field name	Data Type	Description	Allow Null	Constrains
Id	integer	Its primary key of table	No	Primary key Foreign key (account_guest/guest_id)
Totalammount	real	Its describe totalammount	No	
summary	Text	Its describe summary	No	
date	Datetime	Its describe date	No	
guest_id	integer	Its describe guest_id	No	Foreign key

Table name : room_room

Description :

Field name	Data Type	Description	Allow Null	Constrains
Number	integer	Its primary key of table	no	Primary key
Capacity	Smallint	Its describe Capacity	no	
numberofBeds	Smallint	Its describe Numberofbeds	no	
roomtype	Varchar(20)	Its describe Roomtype	no	
Price	Real	Its describe Price	no	
Statusstartdate	Date	Its describe Statusstartdate	no	
statusenddate	date	Its describe Statusenddate	no	

Table name : room_roomservices

Description :

Field name	Data Type	Description	Allow Null	Constrains
id	integer	Its primary key of table	No	Primary key Foreign key(room_booking/curBooking_id)
createdate	Date	Its describe Createdate	No	
servicetype	Varchar(20)	Its describe Servicetype	No	
price	Real	Its describe Price	No	
curBooking_id	integer	Its describe curBooking_id	No	Foreign key
room_id	integer	Its describe room_id	No	

Table name : room_refund

Description :

Field name	Data Type	Description	Allow Null	Constrains
id	integer	Its primary key of table	no	Primary key Foreign key(accounts_guest/guest_id room_booking/reservation_id)
reason	text	Its describe reason	no	
Guest_id	integer	Its describe Guest_id	no	Foreign key
Reservation_id	integer	Its describe Reservation_id	no	Foreign key

Table name : room_dependees

Description :

Field name	Data Type	Description	Allow Null	Constrains
id	integer	Its primary key of table	no	Primary key Foreign key (room_booking/booking_id)
name	Varchar(100)	Its describe name	no	
Booking_id	integer	Its describe Booking_id	no	Foreign key

Table name : room_booking

Description :

Field name	Data Type	Description	Allow Null	Constrains
Id	integer	Its primary key of table	No	Primary key Foreign key(accounts_guest/guest_id)
dateOfReservation	Date	Its describe Dateofreservation	No	
startDate	date	Its describe startdate	No	
endDate	date	Its describe enddate	No	
guest_id	integer	Its describe guest_id	No	Foreign key
roomNumber_id	integer	Its describe roomNumber_id	No	

Table name :django_session

Description :

Field name	Data Type	Description	Allow Null	Constrains
session_key	Varchar(40)	Its primary key of table	No	Primary key
session_data	text	Its describe Session_data	No	
Expire_date	datetime	Its describe Expire_date	No	

Coding Standards

When developing an online hotel management system, it is important to follow coding standards to ensure code readability, maintainability, and consistency. While specific coding standards may vary depending on the programming language and framework being used, here are some general coding standards that can be applied:

1. Naming Conventions: Use meaningful and descriptive names for variables, functions, classes, and files. Follow a consistent naming convention such as camel case or snake case. Avoid using abbreviations or single-letter variable names unless they are well-known and widely used.
2. Indentation and Formatting: Use consistent indentation (typically 4 spaces or a tab) to improve code readability. Apply consistent formatting for code blocks, including braces and line breaks. Consider using linting tools or code formatters to enforce consistent formatting across the codebase.
3. Comments: Include clear and concise comments to explain the purpose and functionality of the code. Document complex algorithms, non-obvious logic, and any potential pitfalls or considerations. Avoid excessive comments that simply restate the code without adding value.
4. Modular and DRY (Don't Repeat Yourself) Code: Follow modular design principles to break down the code into reusable and independent components. Avoid duplicating code by extracting common functionality into functions or classes. This improves code maintainability and reduces the chances of introducing bugs.
5. Error Handling: Implement proper error handling mechanisms throughout the codebase. Use try-catch blocks or equivalent error-handling mechanisms to handle exceptions and errors gracefully. Provide informative error messages and handle exceptions in a consistent and predictable manner.

6. Security Best Practices: Follow secure coding practices to prevent common vulnerabilities. Sanitize and validate user inputs to mitigate the risk of injection attacks. Implement appropriate authentication and authorization mechanisms to protect sensitive data. Encrypt sensitive information when storing or transmitting it.

7. Code Documentation: Document the purpose, usage, and inputs/outputs of important functions, methods, and classes. Use code comments or generate API documentation using tools like Javadoc or Sphinx. Proper documentation helps other developers understand the code and promotes collaboration.

8. Testing and Quality Assurance: Write unit tests to validate the functionality of the code. Follow test-driven development (TDD) principles to write tests before implementing the actual code. Incorporate continuous integration and automated testing to ensure code quality and prevent regressions.

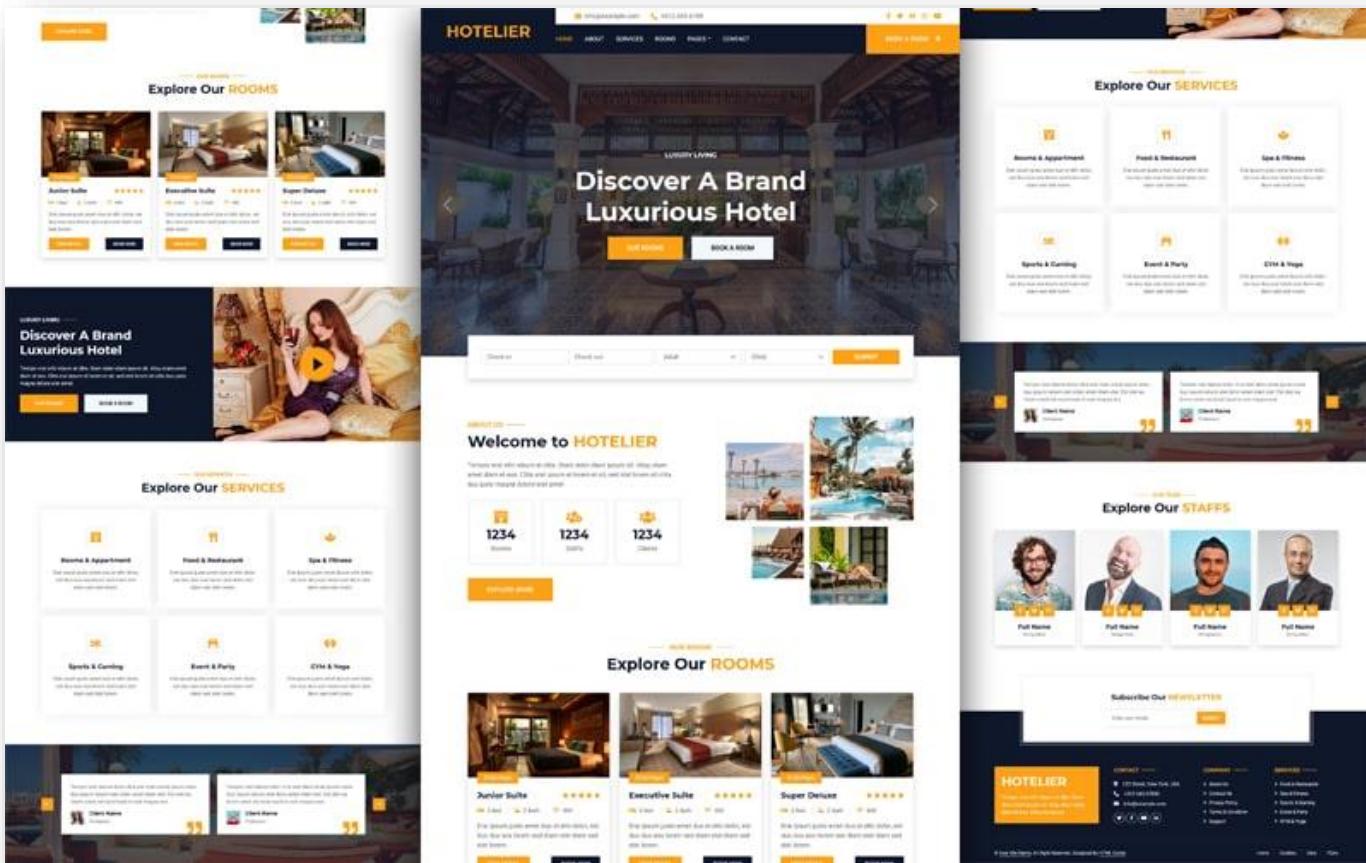
9. Version Control and Git Workflow: Utilize version control systems like Git to track changes and collaborate with other developers effectively. Follow a standardized Git workflow, such as Gitflow or GitHub flow, to manage code branches, pull requests, and code reviews.

10. Code Review: Conduct code reviews to ensure adherence to coding standards, identify potential bugs or issues, and share knowledge among the development team. Encourage constructive feedback and collaboration during code reviews to improve code quality.

It's important to note that coding standards may vary depending on the specific programming language, framework, or organization's guidelines. Consistency within the project and team is key to maintainability and readability.

Screen Shorts

Homepage



About Us

The page features a large banner at the top showing a tropical resort interior with a bar area. Below the banner is a search bar with fields for Check in, Check out, Adult, Child, and a yellow SUBMIT button.

ABOUT US —

Welcome to HOTELIER

Tempor erat elitr rebum at clita. Diam dolor diam ipsum sit. Aliqu diam amet diam et eos. Clita erat ipsum et lorem et sit, sed stet lorem sit clita duo justo magna dolore erat amet

1234
Rooms

1234
Staffs

1234
Clients

EXPLORE MORE

OUR TEAM —

Explore Our STAFFS

Full Name
Designation

Full Name
Designation

Full Name
Designation

Full Name
Designation

Subscribe Our NEWSLETTER

Enter your email

SUBMIT

Services

The screenshot shows a travel website's services page. At the top, there is a banner with a tropical interior scene and the word "Services". Below the banner is a search bar with fields for "Check in", "Check out", "Adult" (with a dropdown arrow), "Child" (with a dropdown arrow), and a yellow "SUBMIT" button. The main content area has a title "Explore Our SERVICES" with a subtitle "OUR SERVICES". Below this, there are six service categories arranged in a grid:

- Rooms & Apartment**: Represented by a room icon. Description: Erat ipsum justo amet duo et elitr dolor, est duo duo eos lorem sed diam stet diam sed stet lorem.
- Food & Restaurant**: Represented by a fork and knife icon. Description: Erat ipsum justo amet duo et elitr dolor, est duo duo eos lorem sed diam stet diam sed stet lorem.
- Spa & Fitness**: Represented by a flower icon. Description: Erat ipsum justo amet duo et elitr dolor, est duo duo eos lorem sed diam stet diam sed stet lorem.
- Sports & Gaming**: Represented by a swimmer icon. Description: Erat ipsum justo amet duo et elitr dolor, est duo duo eos lorem sed diam stet diam sed stet lorem.
- Event & Party**: Represented by a glass icon. Description: Erat ipsum justo amet duo et elitr dolor, est duo duo eos lorem sed diam stet diam sed stet lorem.
- GYM & Yoga**: Represented by a person icon. Description: Erat ipsum justo amet duo et elitr dolor, est duo duo eos lorem sed diam stet diam sed stet lorem.

Below the grid, there are two testimonial boxes with arrows for navigation:

Tempor stet labore dolor clita stet diam amet ipsum dolor duo ipsum rebum stet dolor amet diam stet. Est stet ea lorem amet est kasd kasd et erat magna eos

Client Name
Profession

Tempor stet labore dolor clita stet diam amet ipsum dolor duo ipsum rebum stet dolor amet diam stet. Est stet ea lorem amet est kasd kasd et erat magna eos

Client Name
Profession

At the bottom, there is a newsletter sign-up form with a title "Subscribe Our NEWSLETTER", a text input field "Enter your email", and a yellow "SUBMIT" button.

Rooms

The screenshot shows a hotel website's rooms section. At the top, there is a banner with a photograph of a room and the word "Rooms". Below the banner is a search bar with fields for "Check in", "Check out", "Adult" (with a dropdown arrow), "Child" (with a dropdown arrow), and a "SUBMIT" button. The main heading is "Explore Our ROOMS" with "ROOMS" in orange. Below this, there are two rows of three room types each. Each room type has a thumbnail image, a price of "\$100/Night", a star rating (5 stars), and a brief description in italics. Below the description are "VIEW DETAIL" and "BOOK NOW" buttons.

Room Type	Description	Price	Rating
Junior Suite	Erat ipsum justo amet duo et elitr dolor, est duo duo eos lorem sed diam stet diam sed stet lorem.	\$100/Night	★★★★★
Executive Suite	Erat ipsum justo amet duo et elitr dolor, est duo duo eos lorem sed diam stet diam sed stet lorem.	\$100/Night	★★★★★
Super Deluxe	Erat ipsum justo amet duo et elitr dolor, est duo duo eos lorem sed diam stet diam sed stet lorem.	\$100/Night	★★★★★
Super Deluxe	Erat ipsum justo amet duo et elitr dolor, est duo duo eos lorem sed diam stet diam sed stet lorem.	\$100/Night	★★★★★
Junior Suite	Erat ipsum justo amet duo et elitr dolor, est duo duo eos lorem sed diam stet diam sed stet lorem.	\$100/Night	★★★★★
Executive Suite	Erat ipsum justo amet duo et elitr dolor, est duo duo eos lorem sed diam stet diam sed stet lorem.	\$100/Night	★★★★★

Below the room grid, there is a testimonial section with two cards. Each card has a quote, a profile picture, and a "Client Name" field. The quotes are identical: "Tempor stet labore dolor clita stet diam amet ipsum dolor duo ipsum rebum stet dolor amet diam stet. Est stet ea lorem amet est kasd kasd et erat magna eos". The client names are "Client Name" and "Client Name". There are also "Profession" fields and orange double quotes at the end of each quote.

At the bottom, there is a newsletter sign-up form with a placeholder "Enter your email" and a "SUBMIT" button.

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Contact us

The screenshot shows a contact form overlaid on a background image of a tropical resort lobby. The form includes fields for 'Check in' and 'Check out' dates, dropdowns for 'Adult' and 'Child' counts, and an orange 'SUBMIT' button.

CONTACT US

CONTACT For Any Query

BOOKING book@example.com

GENERAL info@example.com

TECHNICAL tech@example.com

A map of the Northeastern United States (New York, Pennsylvania, New Jersey, Connecticut, Massachusetts, Rhode Island, Vermont, New Hampshire) is displayed, showing major cities like New York City, Philadelphia, Boston, and Albany.

Your Name

Your Email

Subject

Message

SEND MESSAGE

Subscribe Our NEWSLETTER

Enter your email

SUBMIT

Register

— ROOM BOOKING —

Log IN



Username...

First Name...

Last Name...

Email...

5*****

Enter password...

Re-enter Password...

[REGISTER AS A GUEST](#)

Already have an account? [Login](#)

Admin Profile

PROFILE ROOMS OPTIONS EVENT LOGOUT

ROLE : ADMIN

Email :

Salary: 0.0

Creation Date: May 24, 2023, 8:20 p.m.

— EMPLOYEE PROFILE —

Edit PROFILE

Name:

Surname:

Phone Number:

SAVE CHANGES

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Admin Add Employee

Employee List					ADD NEW EMPLOYEE
ID	Name	Email	Phone Number	Role	FILTER
1				admin	DETAIL
9	KUNAL PANDYA	akkipandyao@gmail.com	+902125552368	receptionist	DETAIL
11	Neha Panchal	akkshay@gmail.com	+902125552366	receptionist	DETAIL
12	Akshay PANCHAL	panchalakshay8347@gmail.com	+902125552348	manager	DETAIL
13	Ashif Ansari	ASF123@gmail.com	+902125551368	staff	DETAIL
15	asif ali	asd12@gmail.com	+902125522368	staff	DETAIL

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Request Services

PROFILE ROOMS OPTIONS ▾ EVENT [LOGOUT](#)

Room Services

The list include last 1 month room services

Guest Name	Room Number	Type	Created Date	Price	Action
2129_kunal	123	Food	May 25, 2023	50.0	DELETE
2129_kunal	123	Cleaning	May 25, 2023	0.0	DELETE

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Annoucements

The screenshot displays a web-based application interface for managing announcements. At the top, a dark header bar contains links for PROFILE, ROOMS, OPTIONS, EVENT, and LOGOUT. Below this is a light-colored main area.

Announcements List: This section shows a table with one row of data. The columns are labeled ID, Content, Sender Name, and Announced Date. The data row contains: ID 1, Content "qwqwqw", Sender Name "", Announced Date May 25, 2023. To the right of the table are buttons for FILTER and DELETE.

Add Announcement: This section features a large input field for the announcement content. A green "SEND" button is located at the bottom right of the input field.

Footer: The footer is a dark blue section containing a yellow rectangular box with the word "LOOKOUT" in white. Below this box, text encourages users to download the Lookout Premium Version. To the right of the box are three columns of links under the headings CONTACT, COMPANY, and SERVICES.

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COMPANY

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- Contact Us
- Privacy Policy
- Terms & Condition
- Support

SERVICES

- Food & Restaurant
- Spa & Fitness
- Sports & Gaming
- Event & Party
- GYM & Yoga

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Refund list

PROFILE ROOMS OPTIONS EVENT LOGOUT

Guest ID: 4 Guest Name: Kunal Reservation ID: 1 Reason: 123 **FILTER**

DECLINE **APPROVE**

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Booking list

PROFILE OPTIONS ▾

LOGOUT

Bookings List

Room Number	Guest Name	Date Of Reservation mm/dd/yyyy	Start Day mm/dd/yyyy	End Day mm/dd/yyyy	Number of Dependees	Total amount	FILTER
111	Kunal	May 24, 2023	May 25, 2023	May 26, 2023	1	1000.0	<button>DELETE BOOKING</button>
123	Mini	May 24, 2023	May 26, 2023	May 27, 2023	4	1000.0	<button>DELETE BOOKING</button>
111	Kunal	May 24, 2023	May 27, 2023	May 28, 2023	1	1000.0	<button>DELETE BOOKING</button>
123	2129_kunal	May 25, 2023	May 28, 2023	May 29, 2023	4	1000.0	<button>DELETE BOOKING</button>
100	Kunal	June 1, 2023	June 1, 2023	June 2, 2023	8	5000.0	<button>DELETE BOOKING</button>

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Booking Delete

PROFILE

OPTIONS ▾

LOGOUT

Are you sure you want to delete This Booking : ?

Room number : 105

Guest name : Kunal Pandya

from June 1, 2023 to June 2, 2023

CANCEL

CONFIRM

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GYM & Yoga

Task List (staff)

ASIF ALI

PROFILE

OPTIONS ▾

LOGOUT

My Tasks List

Task ID	Description	Start Time	End Time	
<input type="text"/>	<input type="text"/>	<input type="text"/> mm/dd/yyyy <input type="button" value="CALENDAR"/>	<input type="text"/> mm/dd/yyyy <input type="button" value="CALENDAR"/>	<input type="button" value="FILTER"/>

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Task Profile (staff)

ASIF ALI

PROFILE

OPTIONS ▾

LOGOUT

Are you sure you want to mark This Task as completed : ?

Task description : Cleaning Request

Task start Time : June 1, 2023, 11:09 a.m.

Task end Time : June 1, 2023, 11:39 a.m.

CANCEL

CONFIRM

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Add Menu (Food)

ASIF ALI

PROFILE

OPTIONS ▾

LOGOUT

Menu

Menu ID	Menu Items	Start Time	End Time	EDIT	DELETE
1	Burger	June 1, 2023	June 8, 2023	<button>EDIT</button>	<button>DELETE</button>
2	Pizza	June 1, 2023	June 8, 2023	<button>EDIT</button>	<button>DELETE</button>

Add Menu

Menu Items

First Date

 mm/dd/yyyy CALENDAR

End Date

 mm/dd/yyyy CALENDAR

ADD



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Add Storage (luggage)

ASIF ALI PROFILE OPTIONS ▾ LOGOUT

Storage

Item ID	Item Name	Type	Quantity	
1	None	None		FILTER
1	Wire	Electronic	3	SAVE

Add Item

Item Name

Item Type

Item Quantity

ADD

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Room List

PROFILE OPTIONS ▾ LOGOUT

— OUR ROOMS —

Explore Our ROOMS

[ADD ROOM](#)

Room List

Filter available room with time interval

First Date mm/dd/yyyy Last Date mm/dd/yyyy [FILTER](#)

<p>Rs. 5000.0/Night</p> <p>Room 100</p> <p>3 Beds 9 person Luxury</p> <p>VIEW DETAIL EDIT NOW</p>	<p>Rs. 5000.0/Night</p> <p>Room 105</p> <p>3 Beds 6 person Non-AC</p> <p>VIEW DETAIL EDIT NOW</p>	<p>Rs. 1000.0/Night</p> <p>Room 106</p> <p>1 Beds 2 person AC</p> <p>VIEW DETAIL EDIT NOW</p>
<p>Rs. 1000.0/Night</p> <p>Room 111</p> <p>1 Beds 2 person AC</p> <p>VIEW DETAIL EDIT NOW</p>	<p>Rs. 1000.0/Night</p> <p>Room 123</p> <p>2 Beds 5 person AC</p> <p>VIEW DETAIL EDIT NOW</p>	<p>Rs. 3000.0/Night</p> <p>Room 200</p> <p>2 Beds 4 person King</p> <p>VIEW DETAIL EDIT NOW</p>
<p>Rs. 1200.0/Night</p> <p>Room 201</p> <p>1 Beds 2 person King</p> <p>VIEW DETAIL EDIT NOW</p>		

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Add Room

PROFILE OPTIONS ▾ LOGOUT

Room Number:

Capacity:

Number Of Beds:

Room Type:

Price:

ADD ROOM

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Add Event

PROFILE OPTIONS ▾

LOGOUT

Event Type

Location

Start Date

 mm/dd/yyyy []

End Date

 mm/dd/yyyy []

Explanation

SAVE

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Guest Profile

The screenshot shows a guest profile page with the following details:

- Name:** Kunal Pandya
- Phone Number:** 9998763569
- Surname:** Pandya
- Email:** shahrushabh15341@gmail.com
- Account Creation Date:** May 24, 2023, 10:50 p.m.
- Past Reservations:**

Reservation Date	Check in Date	Check out Date	Number of residents	
May 24, 2023	May 25, 2023	May 26, 2023		SEND REFUND REQUEST
May 24, 2023	May 27, 2023	May 28, 2023		SEND REFUND REQUEST

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Room Profile (Guest)

KUNAL PANDYA PROFILE OPTIONS ▾ LOGOUT

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Room List

Filter available room with time interval

First Date mm/dd/yyyy Last Date mm/dd/yyyy **FILTER**

<p>Rs. 5000.0/Night</p> <p>Room 100</p> <p>3 Beds 9 person Luxury</p> <p>BOOK NOW</p>	<p>Rs. 5000.0/Night</p> <p>Room 105</p> <p>3 Beds 6 person Non-AC</p> <p>BOOK NOW</p>	<p>Rs. 1000.0/Night</p> <p>Room 106</p> <p>1 Beds 2 person AC</p> <p>BOOK NOW</p>
<p>Rs. 1000.0/Night</p> <p>Room 111</p> <p>1 Beds 2 person AC</p> <p>BOOK NOW</p>	<p>Rs. 1000.0/Night</p> <p>Room 123</p> <p>2 Beds 5 person AC</p> <p>BOOK NOW</p>	<p>Rs. 3000.0/Night</p> <p>Room 200</p> <p>2 Beds 4 person King</p> <p>BOOK NOW</p>
<p>Rs. 1200.0/Night</p> <p>Room 201</p> <p>1 Beds 2 person King</p> <p>BOOK NOW</p>		

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Event List (Guest)

The screenshot shows a user interface for managing events. At the top, there is a navigation bar with the user's name "KUNAL PANDYA" and links for PROFILE, ROOMS, OPTIONS, EVENT, and LOGOUT. Below the navigation bar is a search/filter section titled "Event List". It includes fields for Type (set to "None"), Location (set to "None"), Starting Date (set to "mm/dd/yyyy") and End Date (set to "mm/dd/yyyy"). There is also a "FILTER" button. Below this, a specific event is listed: "Movie" at "Ahmedabad" from "May 25, 2023" to "May 27, 2023", with "VIEW" and "ATTEND" buttons. A section titled "List of my Events" follows, featuring a header row with columns for Type, Location, Starting Date, End Date, and Number Of Attendees. The main content area below this is currently empty. At the bottom of the page, there is a footer with a yellow sidebar for "LOOKOUT" advertising premium website services, and a main footer with links for CONTACT, COMPANY, and SERVICES.

KUNAL PANDYA PROFILE ROOMS OPTIONS EVENT LOGOUT

Event List

Type	Location	Starting Date	End Date	
None	None	mm/dd/yyyy	mm/dd/yyyy	FILTER
Movie	Ahmedabad	May 25, 2023	May 27, 2023	VIEW ATTEND

List of my Events

Type	Location	Starting Date	End Date	Number Of Attendees

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Room Services (Guest)

KUNAL PANDYA

PROFILE

ROOMS

OPTIONS ▾

EVENT

LOGOUT

Room Services

The list include last 1 month room services

Room Number	Type	Created Date	Price
123	Single	2023-09-01	\$100

Available Services

You can select service from this menu.

Food	\$50	REQUEST
Cleaning	Free of charge	REQUEST
Technical	Free of charge	REQUEST

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Event Profile (Guest)

KUNAL PANDYA

PROFILE

ROOMS

OPTIONS ▾

EVENT

LOGOUT

Event Type: Movie

Location: Ahmedabad

Start Date: May 25, 2023

End Date: May 27, 2023

Atendees

Name Surname	Number of Dependees
Kunal Pandya	1

Explanation

TRying

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Proposed Enhancements

Proposed enhancements for an online hotel management system could include:

1. Mobile-Friendly Interface: Optimize the system's user interface to be responsive and mobile-friendly, allowing users to access and interact with the system seamlessly on various devices, including smartphones and tablets. This enables hotel staff to manage operations on the go, enhancing their productivity and flexibility.
2. Real-Time Room Availability: Implement a real-time room availability feature that updates the system instantly when a room is booked or becomes available. This allows front desk staff and guests to view up-to-date information on room availability, minimizing the risk of overbooking and improving the efficiency of the reservation process.
3. Integration with Online Travel Agencies (OTAs): Integrate the online hotel management system with popular OTAs such as Booking.com, Expedia, or Airbnb. This integration allows for automatic synchronization of room availability, rates, and reservations, reducing manual data entry and ensuring consistency across different booking channels.
4. Guest Self-Service Portal: Develop a guest self-service portal where guests can manage their reservations, make modifications, request services, and provide feedback. This empowers guests to have more control over their stay and enhances their overall experience by providing convenience and personalization.
5. Automated Housekeeping Assignments: Implement an automated housekeeping assignment system that optimizes the allocation of housekeeping tasks based on room status, guest preferences, and staff availability. This streamlines the housekeeping process, improves efficiency, and reduces delays in room readiness.

6. Integrated Guest Communication: Enhance the system with integrated guest communication features such as automated email or SMS notifications for reservation confirmations, check-in reminders, room service requests, and post-stay feedback. This improves communication with guests, reduces manual effort, and enhances guest satisfaction.

7. Advanced Reporting and Analytics: Expand the reporting and analytics capabilities of the system to provide more comprehensive insights into hotel performance, revenue trends, guest preferences, and operational efficiency. Customizable dashboards and visualizations can help hotel management make data-driven decisions and identify areas for improvement.

8. Intelligent Pricing and Revenue Management: Incorporate intelligent pricing algorithms and revenue management tools into the system to optimize room rates based on factors like demand, seasonality, competitor rates, and guest preferences. This can help maximize revenue and improve yield management strategies.

9. Integrations with Payment Gateways: Integrate the online hotel management system with popular payment gateways to offer guests a secure and seamless payment experience. This allows for automated payment processing, reduces manual errors, and supports multiple payment methods for guest convenience.

10. Data Security and Compliance: Strengthen the system's security measures by implementing robust data encryption, access controls, and compliance with data protection regulations such as GDPR (General Data Protection Regulation). Regular security audits and vulnerability assessments should be conducted to ensure the protection of sensitive guest information.

It is important to prioritize enhancements based on the specific needs of the hotel and its guests, as well as the available resources and budget for development and implementation.

Conclusion

In conclusion, the development and implementation of an online hotel management system have proven to be a valuable and efficient solution for the hospitality industry. This project aimed to streamline various hotel management operations, enhance guest experiences, and optimize overall efficiency within the establishment.

By leveraging technology and integrating key features, the online hotel management system has successfully addressed several critical aspects of hotel operations, including reservation management, room allocation, guest check-in and check-out, billing and invoicing, inventory management, and reporting.

One of the significant benefits of this system is its ability to automate processes, reducing manual errors and saving valuable time for hotel staff. Through the online platform, guests can easily make reservations, view room availability, and access essential information about the hotel's services and facilities. This has resulted in improved customer satisfaction and increased revenue generation for the hotel.

The integration of payment gateways has facilitated secure online transactions, ensuring convenience for guests while also providing a reliable and efficient billing system for the hotel. The system's reporting capabilities have allowed hotel management to access real-time data, analyze performance metrics, and make data-driven decisions to optimize operations and maximize profitability.

Moreover, the online hotel management system has also fostered effective communication and collaboration among various departments within the hotel, enhancing overall coordination and teamwork.

While the project has been successful in achieving its objectives, there are always opportunities for further enhancements and expansions. Future iterations of the system could

include additional features such as integration with external platforms for online marketing and promotion, incorporation of loyalty programs, and integration with smart devices to enhance guest experiences.

Overall, the online hotel management system project has demonstrated its effectiveness in improving operational efficiency, guest experiences, and revenue generation for hotels. It serves as a testament to the power of technology in revolutionizing the hospitality industry and meeting the evolving needs of both hotel management and guests.

Bibliography

Oyo Hotel Booking

[OYO: India's Best Online Hotel Booking Site for Sanitised Stays \(oyorooms.com\)](http://oyorooms.com)

OYO Rooms is a popular hospitality company that operates an online room booking system. It was founded in 2013 and has since grown into one of the largest hotel chains globally, focusing primarily on budget and mid-range accommodations.

The OYO room booking system offers a convenient platform for travelers to search, book, and manage hotel reservations online.

- its good thing for me I analyse OYO system to get knowledge about online hotel management system

Stack overflow

<http://stackoverflow.com>

Stack Overflow is a popular online community and question-and-answer platform that primarily focuses on programming and software development topics. It serves as a valuable resource for developers to seek assistance, share knowledge, and collaborate with a global community of programmers.

- When I stuck in coding some where in this project I used to get my answer of confusion.

Template Hub

[400+ Free HTML Templates Wordpress Themes - TemplatesHub \(templateshub.net\)](http://templateshub.net)

Template Hub is popular open source community which can provide free templates to user, download and use it for free.

- I downloaded my projects design from this website just because I have to complete back end work as early as possible.