Information System of Web-Based Wedding Organizer

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Abstract. The purpose of this study is as an Information systems are used in all areas of business, including in the field of wedding organizer. The design information system of web-based wedding organizer. System approach method which is used is object-oriented approach while development method by using prototype. Data collection techniques are observation and interview. The measuring tool which is used in the design of this system is UML diagram. With a website-based information system, it can simplify the process of transaction services and data processing at this company. Beginning with booking, payment and catering management and it can accelerate the performance of wedding organizers in the data storage quickly, accurately and in managing the service accurately. Can simplify the process of recording and storage of payment data so that it is easier to know the information of payment time and the rest of it that can simplify the process of cancellation so that customers can know the status of reservations. Beside that the process on catering processing can help the selection and addition of catering quickly. It can be done anywhere and anytime.

1. Introduction

Information technology (IT) is needed to support the performance of an organization, a company, or an agency. This technology can be used in all fields, and it can help organizations, companies and agencies work more effectively and efficiently [1].

The development of this information technology adversely impacts on all aspects, especially in the utilization of IT in the field of business itself because of the existing competition requires us to get the accuracy of an information [2]. In Kristin and Lisanti (2014), it is mentioned that, according to Bhattacharyya and Rahman (2004); Gony and Westbrook (2011); and Napompech and Kuawiriyapan (2011) mentioned in their research, "If a business wants to succeed, business people must be able to understand and meet the needs and desires of customers"). Wedding organizer is one of the business that must follow this IT development [3]. Many clients do not have much time to go to some support places wedding receptions and at the same time think of the concept of marriage, while many places of business which offers a variety of exciting services and concepts to support a wedding reception [4].

Alesha Wedding Package is one of the companies engaged in the wedding organizer, There are several processes in this company that have not used IT, such as the process of wedding package selection, catering management and package payments [5]. The internet has become one of the major ways in which wedding planners try to reach clients, establish relationships with vendors, and, in some cases, keep track of certain activities relating to a wedding [6].

The internet plays an important role in this service industry. Thus, it will be a wise choice to make the information centre easily available via cyberspace [7].

Riyanti, 2012, and Fauzi, 2015, built a web-based wedding organizer information system with structured approach method and prototype method. Setiajati, 2016, designed the wedding organizer information service system with automatic package selection feature using Greedy algorithm. While Najiyah and Suharyanto, 2017, created a wedding planner system information that became a place of all wedding organizer website [8].

The purpose of this study is to design information system of web-based wedding organizer on Alesha Wedding Package which is useful to facilitate the service process to the customers and make it easier for the company to do the processing of registration, ordering, payment and catering management.

2. Research methods

Method of system approach that is used is object-oriented approach method by using UML (Unified Modeling Language) as a tool that is used in system design which is made. System design which is created uses development method of Prototype system. Prototype Model is one of the software development methods which is most widely used. Authors and the party of Alesha Wedding Package can interact with each other during the process of the system making with this model prototype. Prototype method steps [9]:

- Requirement gathering and analysis
  A prototype model begins with requirements analysis and requirements of the system are defined in detail. The user is interviewed in order to know the requirements of the system.
- Quick design
  When requirements are known, a preliminary design or quick design for the system is created. It is not a detailed and includes only the important aspects of the system, which gives an idea of the system to the user. A quick design helps in developing the prototype.
- Build prototype
  Information gathered from quick design is modified to form the first prototype, which represents the working model of the required system.
- User evaluation
  Next, the proposed system is presented to the user for thorough evaluation of the prototype to recognize its strengths and weaknesses such as what is to be added or removed. Comments and suggestions are collected from the users and provided to the developer.
- Refining prototype
  Once the user evaluates the prototype and if he is not satisfied, the current prototype is refined according to the requirements. That is, a new prototype is developed with the additional information provided by the user. The new prototype is evaluated just like the previous prototype. This process continues until all the requirements specified by the user are met. Once the user is satisfied with the developed prototype, a final system is developed on the basis of the final prototype.
- Engineer product
  Once the requirements are completely met, the user accepts the final prototype. The final system is evaluated thoroughly followed by the routine maintenance on regular basis for preventing large-scale failures and minimizing downtime.

3. Results and discussion

System design is an advanced step of the action on system analysis, on which it describes the system design to be built prior to the coding into a programming language or develops the procedure of information system which is running into a new information system in order to improve the effectiveness so that it results in a system which suits the needs of the users and is expected to solve the existing problems [10].

The following is a description of the actor definition on the system which is proposed in Alesha Wedding Package (Table 1).

Table 1. Definition of proposed actors**.**

No.	Actor	Description
1.	Customer	The party that can access registration, reservation and payment as well as catering management
2.	Staff and Events section	The party that handles the customer on the process of transaction as well as performes catering management

The following is a description of the definition on Use Case on the proposed system in Alesha Wedding Package (Table 2).

Table 2. Definition of proposed use case.

No.	Use case	Description
1.	Registration	This Use case describes the activities that are related to the registration process prior to reservation
2.	Reservation	This use case describes the activities that are related to reservation process
3.	Payment	This Use case describes the activities that are related to payment process
4.	Manage Catering	This use case describes the activities that are related to catering management

Class diagrams are the mainstay of object-oriented analysis and design (www.agilemodeling.com/artifacts/classDiagram.htm). Class diagrams help us in visualizing the structure of classes on a system and are the most widely used types of diagrams. Class diagrams show the relation between classes and detailed explanations of each class in the design model of a system. During the analysis process, class diagrams show the rules and responsibilities of the entities that determine the behavior of the system, during the design step, the class diagrams play the role in capturing the structure of all the classes that make up the architecture which is created. Here is the Class Diagram of the proposed system (Figure 1):
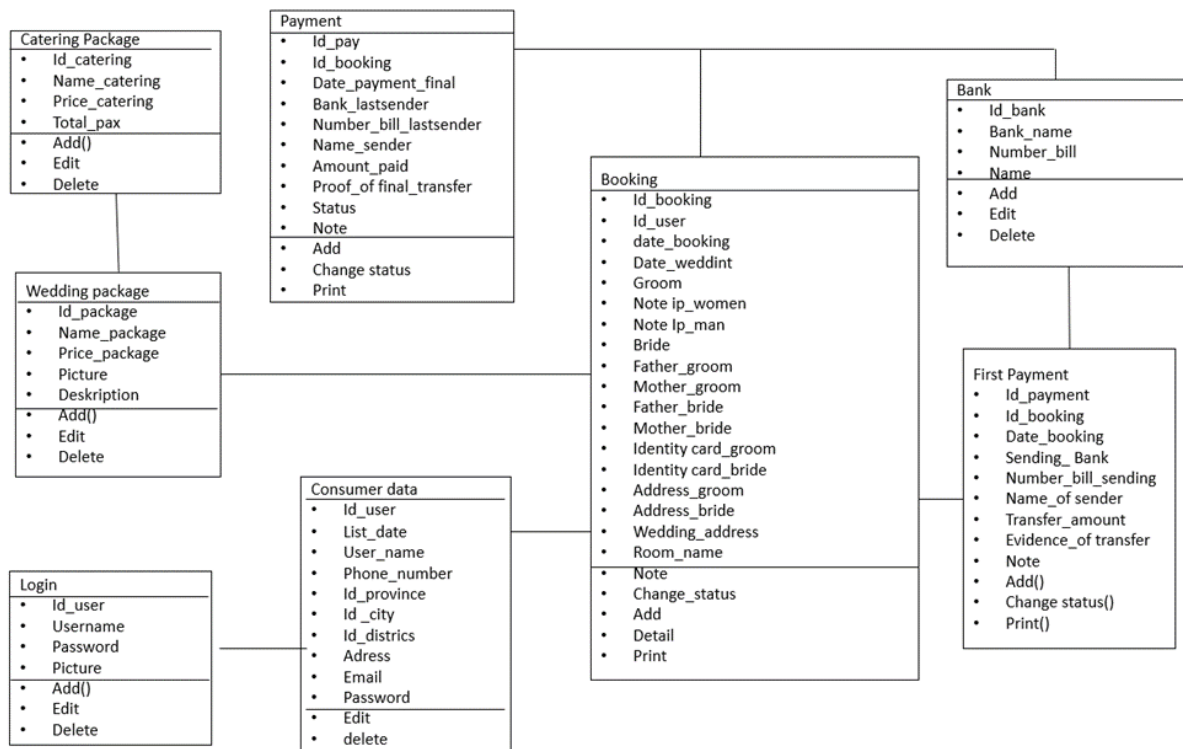
Figure 1. Class diagram.

Testing is an important part of the software development cycle. The purpose of testing is to ensure that the built software has a reliable quality which is able to present the basic review of specification, analysis, design and coding of the software itself.

Testing on Information System software of the Wedding Organizer is using black box method. Black box testing focuses on the functional requirements of the software which is created.

Class Testing	Testing	Level of Testing	Type of Testing
Login	Login User	Integration	Black Box
	Filling in the staff and event data	Integration	Black Box
	Charging data bank	Integration	Black Box
Testing of data filling	Charging gallery data	Integration	Black Box
	Packing	Integration	Black Box
	Catering filling	Integration	Black Box
Process of verivication	Charger catering packages	Integration	Black Box
	Charging packing	Integration	Black Box
	Payment	Integration	Black Box
	Cancel	Integration	Black Box
	Charging package enhancement	Integration	Black Box

Figure 2. Testing plan.

Based on the testing results with the above test sample case, it can be concluded that the system which is proposed has met the testing standards. Thus, it can be concluded that the software is free of syntax errors and functionally releases the results that are in accordance with what is expected.

There are several differences between this study and previous research. This research uses object-based approach method, while Riyanti and Fauzi research using structured approach method. This research uses prototype development method, while Setiajati uses Greedy algorithm. This research is only a web of one wedding organizer, while Najiyah and Suharyanto combine several wedding organizer and one web.

4. Conclusion

The conclusions of this study are the design of information system on the wedding organizer can provide information about what services that are provided by Alesha wedding package, it can assist customers in making reservations, wherever and whenever it is connected to the internet, can simplify the process of recording and storage of payment data so that it is easier to know the information of payment time and the rest of it, can simplify the process of cancellation so that customers can know the status of reservations. Beside that the process on catering processing can help the selection and addition of catering quickly. It can be done anywhere and anytime.

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