Laundry Application Management Software Using JSP

S.Siva[1], T.Pandiyavathi[2]
[1]Dept of Computer Applications
[2]Assistant Professor, Dept of Computer Applications
[1,2] B.S Abdur Rahman Crescent Institute of Science & Technology, Vandalur,Chennai

Abstract- Laundry Booking and Management System is that the system that performs most of the laundry activities and provides services on your door. this technique is actually helpful for the corporate that needs the web booking laundry system. this technique is developed victimisation PHP artificial language and info ar handled through a MySQL info. The system additionally provides supply codes to the users. The program or the look of the system is extremely easy. In such some way that user of any people will simply perceive the system operate. The activities embody the creation of appointments for the laundry, provides services of specific laundry company, shows articles, schedule of users laundry, payment methodology and different.

I. INTRODUCTION

Laundry refers to the laundry of wear and alternative textiles. Laundry has been a section of history since humans began to wear garments, that the ways by that completely different cultures have handled this universal human want ar of interest to several branches of scholarship. Laundry work has historically been extremely gendered with the responsibility in most cultures falling to ladies (formerly mentioned as laundresses or washerwomen. the economic Revolution bit by bit LED to mechanized solutions to laundry work, notably the washer and later the tumble appliance. Laundry, like preparation and kid care, remains done each reception and by industrial institutions outside the house. The word "laundry" might raise the wear itself, or to the place wherever the cleanup happens. aprivate home might have a laundry area; a utility room includes however is not restricted to the perform of laundry garments. associate degree housing or student hall of residence might have a shared laundry facility sort of a tvattsuga. A complete business is mentioned as a self-service laundry (launderette in British English or launderette in North yank. Laundry, loosely, includes not solely the laundry, however additionally the drying and ironing. Laundry was 1st worn out watercourses, material possession the water remove the materials that might cause stains and smells. Laundry continues to be done this fashion at intervals the agricultural regions of poor countries. Agitation helps take away the dirt, that the laundry was rubbed, twisted, or abused against flat rocks. One name for this surface may be a beetling-stone, related to protrusive, a technique at intervals the assembly of linen; one name for a picket substitute could also be a battling-block. The dirt was overwhelmed out with a picket implement mentioned as a laundry battle, battling stick, bat, beetle or club. picket or stone cleansing surfaces supported close to a water system were bit by bit replaced by moveable rub boards, eventually mass-produced furrowed glass or metal washboards Once clean, the clothes were rinsed then wrung out — twisted to urge eliminate most of the water. Then they were decorated informed poles or garments lines to air dry, or typically simply open on clean grass, bushes, or trees. Finally, they were ironed . the work of doing the laundry was reserved for ladies, UN agency washed all their family's laundry. Washerwomen (laundresses) took within the laundry of others, charging by the piece. As such, wash-houses were associate degree obligatory stop in several women's weekly lives and have become a form of establishment or installation. it absolutely was a women-only area wherever they might discuss problems or just chat (cf the idea of the village pump). Indeed, this tradition is mirrored within the Catalan idiom "fer safareig" (literally, "to do the laundry"), which suggests to gossip. European cities additionally had public wash-houses. town authorities needed to convey the poorer population, UN agency would otherwise not have access to laundry facilities, the chance to clean their garments. typically these facilities were combined with public baths, see as an example Baths and wash homes in United Kingdom of Great Britain and Northern Ireland. The aim was to foster hygiene and so cut back outbreaks of epidemics. Sometimes giant metal cauldrons (a "wash copper", even once not product of that metal), were full of water and heated over a fireplace, as hot or boiling water is more practical than cold in removing dirt. A posser may be accustomed agitate garments in a very tub. A connected implement referred to as a laundry dolly is "a picket stick or mallet with associate degree hooked up cluster of legs or pegs" that moves the fabric through the

water.

II. EXISTING SYSTEM

Laundry firm currently uses a manual system for the management and maintenance of critical information. this system requires numerous paper forms, with data stores spread throughout the Laundry firm management infrastructure. Often information (on forms) is incomplete, or does not follow management standards. Forms are often lost in transit between departments requiring a comprehensive auditing process to make sure that no vital information is lost. This has lead to inconsistencies in various data due to large volume of contrasting customer details resulting in mix-up of clothes in the laundry firm which thus leads to delay in Collecting the clothes back.

III. PROPOSED SYSTEM

The Laundry Management System is meant for any Laundry firm to exchange their existing manual, paper primarily based system. The new system is in a similar way of associate degree e-registration system to manage the following; client data, products, services, users, carts and receipt. These services square measure to be provided in associate degree economical, value effective manner, with the goal of reducing the delay and resources presently needed for such tasks as garments details square measure delimited to a particular client with a given id. Since the current system makes use of tedious body tasks, tons paper work and time, throughout that full data can not be gotten from busy customers. The goal of the laundry management system is to provide a computerised method that is stress free, reliable and fast through the employment of php programing language and SQL info application to the users and staffs accountable of the registration of shoppers and laundry management processes. markup language would be at the front-end and supply the graphical program that relates with the user, whereas the SQL info are at the back-end to handle the data storage method.

Features:

1.Administrative Side
2.Add, Edit, View and Delete Laundry
3.Claim Laundry
4.Add New Laundry Types
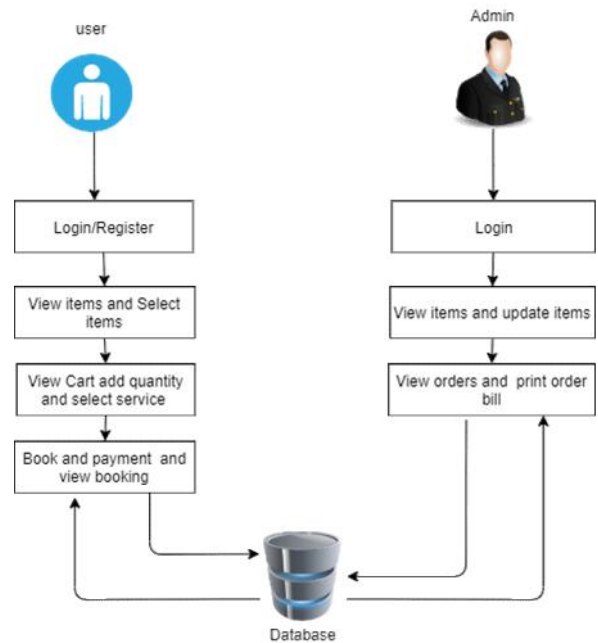5.Generate Report

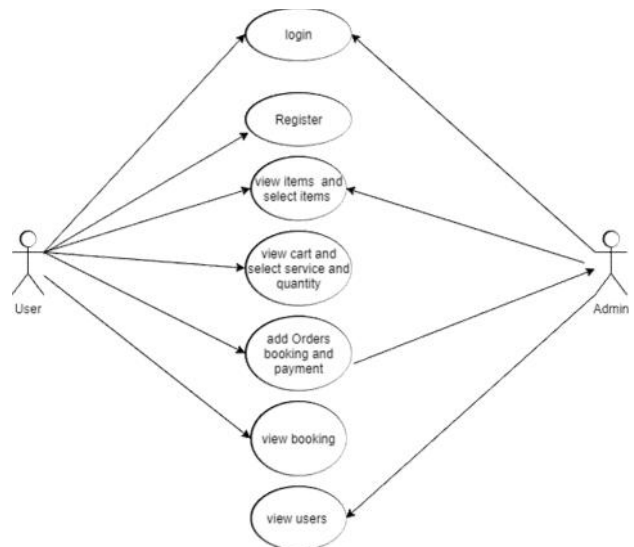## IV. DIAGRAM

Fig.4.1.Overall Architecture Diagram

Fig.4.2. Use Case Diagram

Use case diagrams are considered for high level requirement analysis of a system. So when the requirements of a system are analyzed the functionalities are captured in use cases. So we can say that uses cases are nothing but the system functionalities written in an organized manner. Now the second things which are relevant to the use cases are the actors. Actors can be defined as something that interacts with the system. The actors can be human user, some internal applications or may be some external applications.

Functionalities to be represented as a use case, Actors and Relationships among the use cases and actors. The name of a use case is very important. So the name should be chosen in such a way so that it can identify the functionalities performed. Give a suitable name for actors. Show relationships and dependencies clearly in the diagram. Do not try to include all types of relationships. Because the main purpose of the diagram is to identify requirements. Use note whenever required to clarify some important point.
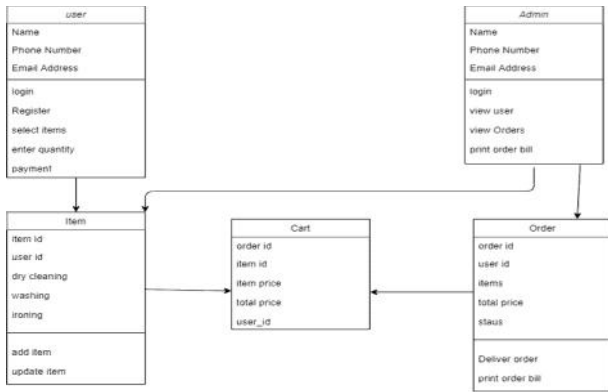

Fig.4.3. Class Diagram

Class diagram is basically a graphical representation of the static view of the system and represents different aspects of the application. So a collection of class diagrams represent the whole system. The name of the class diagram should be meaningful to describe the aspect of the system. Each element and their relationships should be identified in advance Responsibility (attributes and methods) of each class should be clearly identified for each class minimum number of properties should be specified. Because unnecessary properties will make the diagram complicated.
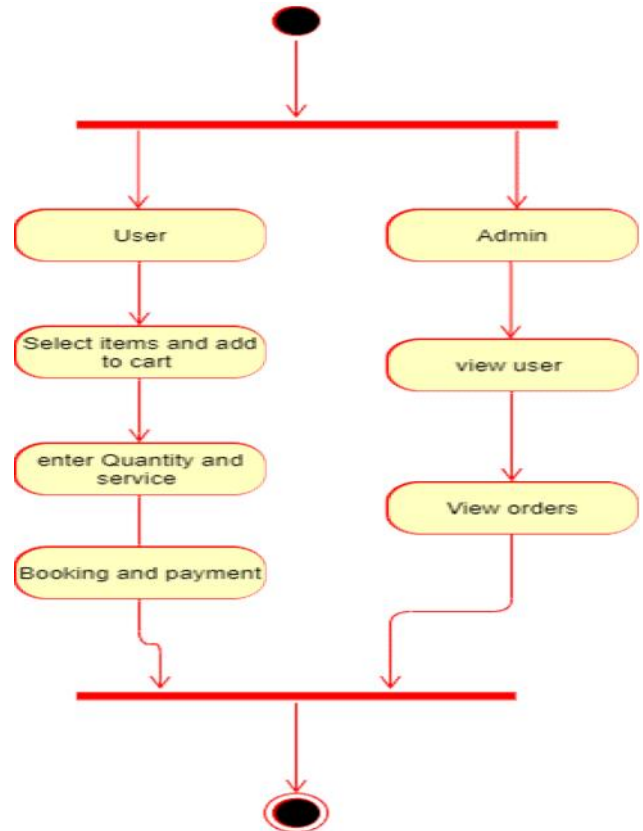

Fig.4.4. Activity Diagram

Activity is a particular operation of the system. Activity diagrams are not only used for visualizing dynamic nature of a system but they are also used to construct the executable system by using forward and reverse engineering techniques. The only missing thing in activity diagram is the message part.It does not show any message flow from one activity to another. Activity diagram is some time considered as the flow chart. Although the diagrams looks like a flow chart but it is not. It shows different flow like parallel, branched, concurrent and single.
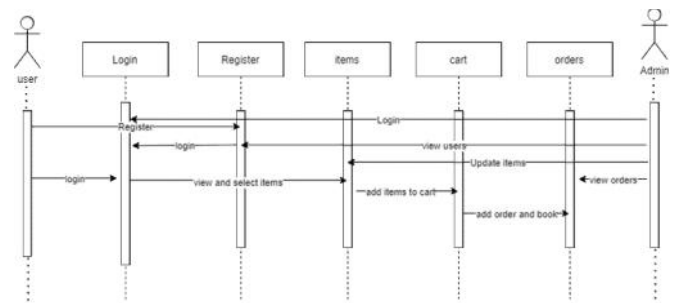

Fig.4.5. Sequence Diagram

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. Sequence diagrams are the

most popular UML artifact for dynamic modeling, which focuses on identifying the behavior within your system. Other dynamic modeling techniques include activity diagramming, communication diagramming, diagramming, and interaction overview diagramming. Sequence diagrams, along with class diagrams and physical data models are in my opinion the most important design-level models for modern business application development.
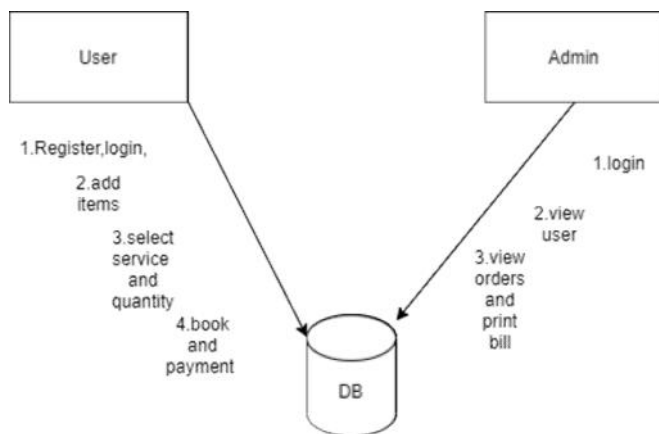

Fig.4.6 Component Diagram

Component diagrams are used to describe the physical artifacts of a system. This artifact includes files, executable, libraries etc. So the purpose of this diagram is different, Component diagrams are used during the implementation phase of an application. But it is prepared well in advance to visualize the implementation details. Initially the system is designed using different UML diagrams and then when the artifacts are ready component diagrams are used to get an idea of the implementation. This diagram is very important because without it the application cannot be implemented efficiently. A well prepared component diagram is also important for other aspects like application performance, maintenance etc. Organization can be further described as the location of the components in a system. These components are organized in a special way to meet the system requirements. As we have already discussed those components are libraries, files, executable etc. Now before implementing the application these components are to be organized. This component organization is also designed separately as a part of project execution.

V. METHODOLOGY

Following modules involves

MODULES:

- Login/registration-Module.
- Admin Module.
- User Module.
- Category-Module
- Booking Module
- Payment Module.

Login /registration- Module:

Registration module is employed to register the small print about the user. That contain create a novel name and password. That also needs a full name of user and email id of user for authentication. the essential module login is employed to website. The module has username and password. that may be verified with database and permit to login to the net page.

Admin–Module:

This module is employed to verify the user, its helps to stop from the unauthorized problems. Admin can change or modify the full services if they require needed and also modify the value of services. Specially admin manage the portal.

User-Module:

The user module is employed to feature the things for his or her laundry needed and required. User pays the payment for his or her booking items for laundry.

Category-Module:

The category module shows the list category of Item. Multiple categories presented within the list. It contains list of sections under the category. it's easy to pick the services and items for laundry .the section of category like men's, women's, kids, and households.

Booking -Module:

The booking module is employed confirm the booking of selected items. That also contains the get the main points from user that may be which services user wanted and total quantity of things. that may be help full to calculate the full amount of service are going to be showed to payment modules.

Payment Module:

The payment module is employed to user pay the deserved amount for the chosen services and Items.

VI. RESULT

The following input design shows the login page and registration page. If it is a new user he/she can register through the same page.
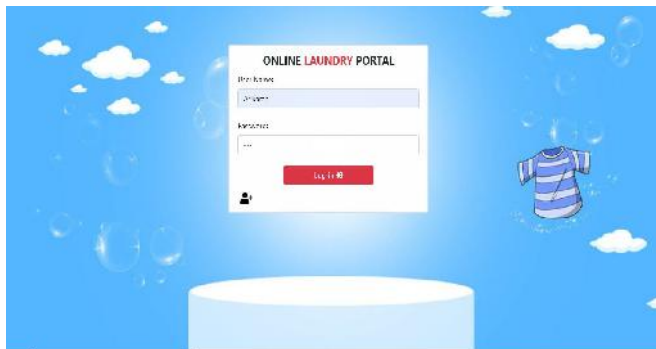

Fig.6.2. Input Design

The following output design shows the category of clothes which the user can select their kind of clothes and go for payment page.
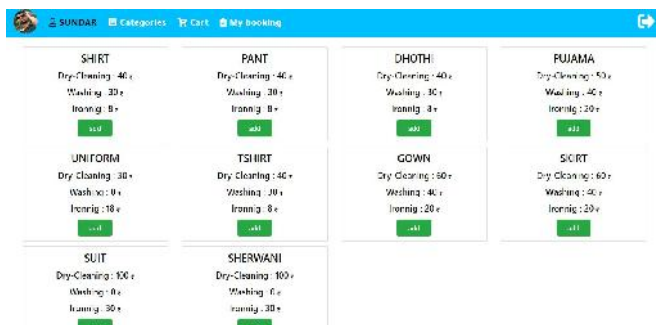

Fig.2.1.Output Design

VII. CONCLUSION

The System is able provide the interface to the servicer so that he can replicate his desired data. . Though the most part of the system is supposed to act in the background, efforts have been made to make the foreground interaction with user (servicer) as smooth as possible. Also the integration of the existing system with the project has been kept in mind throughout the development phase.

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