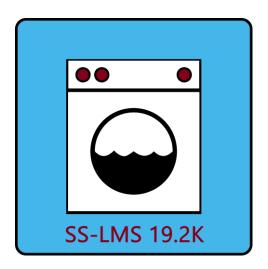
Laundry Management System



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1 Introduction

Software Description

Laundry firms currently use a manual system for the management and maintenance of critical information. The current system requires numerous paper forms, with data stores spread throughout the laundry management infrastructure. Often information is incomplete or does not follow management standards. Records are often lost in transit during computation requiring a comprehensive auditing process to ensure that no vital information is lost. Multiple copies of the same information exist in the laundry firm data and may lead to inconsistencies in data in various data stores.

A significant part of the operation of any laundry firm involves the acquisition, management and timely retrieval of great volumes of information. This information typically involves; customer personal information and clothing records history, user information, price of delivery and retrieval period, users scheduling as regards customers details and dealings in service rendered, also our products package waiting list. All of this information must be managed in an efficient and cost wise fashion so that the organization resources may be effectively utilized. And there's a job schedule which runs to send a remainder (SMS) to the customer on the day of before delivery and pick up.

The goal of laundry management system is to automate the management of the laundry firm making it more efficient and error free. It aims at standardizing data, consolidating data ensuring data integrity and reducing inconsistencies, through the use of highly computerized process that is stress free, reliable and quick through the use of computer Java, SQL programming language and database application to both the users and the staff in charge of the registration and laundry management processes. The front-end provides the graphical user interface that relates with the user, while the SQL database will be at the back-end to handle the data storage process.

2 Specifications

Background and objective determination

➤ Very simple, clear and easiest management of customer, cloth cleaners, pickup and delivery persons and management staffs.

Product Use

➤ The software is used by employees, management, customers, cloth cleaners, delivery and pick up boys and general public.

Product Features

	Registered Users
/10/	New User Creation
/20/	User Login
/30/	User Profile Management
/40/	Place Order by user
/50/	View Order Details
/60/	Show Billing details
/70/	Cancel Order
/80/	Delete Profile

	Cleaners
/90/	New Cleaner Creation
/100/	Cleaner Login
/110/	Cleaner Profile Management
/120/	Accept Order from CWS
/130/	Verify Order Acceptability
/140/	Show the status of Order Acceptability/
/150/	View Order Details
/160/	Show Billing Details
/170/	Dispatch to the CWS Hub
/180/	Getting Payment From CWS
/190/	Delete Profile

	Delivery or Pick Up Personnel
/200/	New Deliveryman/Pick up Agent Creation
/210/	Deliveryman/Pick up Agent Login
/220/	Deliveryman/Pick up Agent Profile Management
/230/	Accept Request from CWS
/240/	Verify Order Acceptability
/250/	Deliver or Pick Up the Product
/260/	Update Account of CWS
/270/	Sending Request for Review
/280/	Dispatch to the CWS Hub
/290/	Delete Profile

	Guest Users
/300/	Common User
/310/	View Details of Service
/320/	Send the Queries to the CWS
/330/	Respond from CWS

	Employee Including Administrator
/410/	Employee Creation
/420/	Employee Login
/430/	Employee Profile Management
/440/	Status of Job
/560/	Delete Profile

Product data

/10/	Customer Data
/20/	Cleaner Data
/30/	Deliveryman/Pick Up Personnel Data
/40/	Employee Data
/50/	Common User Data

Product performance

/10/	Efficient management of Customer data
/20/	Efficient management of Cleaner data
/30/	Efficient management of Deliveryman/Pick Up Personnel related data
/40/	Efficient management of Employee Data
/50/	Efficient management of Service-Related data

Desired quality

Functionality:	Well
Reliability:	Very high
Usability:	Very simple
Efficiency:	Very high
Changeability:	Very high
Portability:	High

Database Structure

/10/	User Login
	UMobileNumber
	UEmail
	UFullName
	UPassword
	UConfirmedPassword
/20/	New User Creation
	UUserID
	UGender
	UFirstName
	ULastName
	UDateOfBirth
	UMobileNo1

	UEmail
	UStreet
	UHouseNumber
	UCity
	UDistrict
	UCountry
	UPinCode
/30/	User Profile Management
' '	UUserID
	UGender
	UFirstName
	ULastName
	UDateOfBirth
	UMobileNo1
	UEmail
	UStreet
	UHouseNumber
	UCity
	UDistrict
	UCountry
	UPinCode
	USrviceOrdered
	UCureentService
	UDeactivateAccount
44	
/40/	Place Order by user
	UUserID
	UFullName
	LIONAGED
	UOrderID
	UServiceName
	UServiceName UTotalPrice
	UServiceName UTotalPrice UDateOfOrder
	UServiceName UTotalPrice
	UServiceName UTotalPrice UDateOfOrder UPickUpSchedule UDateOfDelivery
	UServiceName UTotalPrice UDateOfOrder UPickUpSchedule UDateOfDelivery UDeliverySchedule
/50/	UServiceName UTotalPrice UDateOfOrder UPickUpSchedule UDateOfDelivery UDeliverySchedule View Order Details
/50/	UServiceName UTotalPrice UDateOfOrder UPickUpSchedule UDateOfDelivery UDeliverySchedule View Order Details UFullName
/50/	UServiceName UTotalPrice UDateOfOrder UPickUpSchedule UDateOfDelivery UDeliverySchedule View Order Details UFullName UDeliveryAddress
/50/	UServiceName UTotalPrice UDateOfOrder UPickUpSchedule UDateOfDelivery UDeliverySchedule View Order Details UFullName UDeliveryAddress UAmountToBePaid
/50/	UServiceName UTotalPrice UDateOfOrder UPickUpSchedule UDateOfDelivery UDeliverySchedule View Order Details UFullName UDeliveryAddress
/50/	UServiceName UTotalPrice UDateOfOrder UPickUpSchedule UDateOfDelivery UDeliverySchedule View Order Details UFullName UDeliveryAddress UAmountToBePaid
/50/	UServiceName UTotalPrice UDateOfOrder UPickUpSchedule UDateOfDelivery UDeliverySchedule View Order Details UFullName UDeliveryAddress UAmountToBePaid
	UServiceName UTotalPrice UDateOfOrder UPickUpSchedule UDateOfDelivery UDeliverySchedule View Order Details UFullName UDeliveryAddress UAmountToBePaid UDateOfOrder
/50/	UServiceName UTotalPrice UDateOfOrder UPickUpSchedule UDateOfDelivery UDeliverySchedule View Order Details UFullName UDeliveryAddress UAmountToBePaid UDateOfOrder Show Billing details
	UServiceName UTotalPrice UDateOfOrder UPickUpSchedule UDateOfDelivery UDeliverySchedule View Order Details UFullName UDeliveryAddress UAmountToBePaid UDateOfOrder Show Billing details UUserID
	UServiceName UTotalPrice UDateOfOrder UPickUpSchedule UDateOfDelivery UDeliverySchedule View Order Details UFullName UDeliveryAddress UAmountToBePaid UDateOfOrder Show Billing details UUserID UServiceByCompany
	UServiceName UTotalPrice UDateOfOrder UPickUpSchedule UDateOfDelivery UDeliverySchedule View Order Details UFullName UDeliveryAddress UAmountToBePaid UDateOfOrder Show Billing details UUserID UServiceByCompany UInvoiceNumber
	UServiceName UTotalPrice UDateOfOrder UPickUpSchedule UDateOfDelivery UDeliverySchedule View Order Details UFullName UDeliveryAddress UAmountToBePaid UDateOfOrder Show Billing details UUserID UServiceByCompany UInvoiceNumber
	UServiceName UTotalPrice UDateOfOrder UPickUpSchedule UDateOfDelivery UDeliverySchedule View Order Details UFullName UDeliveryAddress UAmountToBePaid UDateOfOrder Show Billing details UUserID UServiceByCompany UInvoiceNumber UTaxInvoiceNumber UOrderID
	UServiceName UTotalPrice UDateOfOrder UPickUpSchedule UDateOfDelivery UDeliverySchedule View Order Details UFullName UDeliveryAddress UAmountToBePaid UDateOfOrder Show Billing details UUserID UServiceByCompany UInvoiceNumber UTaxInvoiceNumber UOrderID UOrderDate
	UServiceName UTotalPrice UDateOfOrder UPickUpSchedule UDateOfDelivery UDeliverySchedule View Order Details UFullName UDeliveryAddress UAmountToBePaid UDateOfOrder Show Billing details UUserID UServiceByCompany UInvoiceNumber UTaxInvoiceNumber UOrderID
	UServiceName UTotalPrice UDateOfOrder UPickUpSchedule UDateOfDelivery UDeliverySchedule View Order Details UFullName UDeliveryAddress UAmountToBePaid UDateOfOrder Show Billing details UUserID UServiceByCompany UInvoiceNumber UTaxInvoiceNumber UOrderID UOrderDate
	UServiceName UTotalPrice UDateOfOrder UPickUpSchedule UDateOfDelivery UDeliverySchedule View Order Details UFullName UDeliveryAddress UAmountToBePaid UDateOfOrder Show Billing details UUserID UServiceByCompany UInvoiceNumber UTaxInvoiceNumber UOrderID UOrderDate UInvoiceDate

	Luc · N
	UServiecName
	UGrossAmount
	UDiscount
	UTaxableValue
	UToatlAmountToBePaid
/70/	Cancel Order
	UOrderID
	UMessageForCalcel
	UConfirmation
/80/	Delete Profile
	UUserID
	UVerificationCode
	UConfirmation2
/90/	
	CFullName
	CConfirmedPassword
/100/	New Cleaner Creation
	CMobileNo1
	CEmail
	CStreet
	CHouseNumber
	CCity
	CDistrict
	CCountry
/110/	Cleaner Profile Management
	CStreet
	CPinCode
	CEndTime
	CDaySelect
/120/	Accept Order from CWS
	COrderID
	COrderDate
	COrderDeliveryTo
	CNumberOfService
	UNameOfAttire
	UServiecName
	UDiscount
	UConfirmation1 UConfirmation2 Cleaner Login CMobileNumber CEmail CFullName CPassword CConfirmedPassword New Cleaner Creation CCompanyID CNameOfCompnay CMobileNo1 CEmail CStreet CHouseNumber CCity CDistrict CCountry Cleaner Profile Management CCmpanyID CNameOfCompanty CMobileNo1 CEmail CStreet CHouseNumber CCity CDistrict CCountry Cleaner Profile Management CCompanyID CNameOfCompanty CMobileNo1 CEmail CStreet CHouseNumber CCity CDistrict CCountry CDistrict CCountry CPinCode CReadyToWorkYesNo CStartTime CEndTime CDaySelect Accept Order from CWS COrderID COrderDate COrderDeliveryTo CNumberOfService UNameOfAttire UServiecName

/130/	Verify Order Acceptability
/130/	COrderID
	CCheckAndVerify
	CSendResponce
	osenanesponse
/140/	Show the status of Order Acceptibility/
	COrderID
	COrderStatus
	CMessage
/150/	View Order Details
	COrderID
	CTotalPrice
	CDateOfOrder
	CPickUpSchedule
	CDateOfDelivery
	CDeliverySchedule
	CDeliver Man Name
	CDeliveryManName CPickUpManID
	CPickUpManName
/160/	Show Billing Details
, 100,	CCompanyID
	CServiceByCompany
	CInvoiceNumber
	CTaxInvoiceNumber
	COrderID
	COrderDate
	CInvoiceDate
	CDeliveryTo
	CNumberOfService
	CNameOfAttire
	CServiecName
	CGrossAmount
	CDiscount
	CTaxableValue
/170/	CToatlAmountToBePaid
/170/	Dispatch to the CWS Hub COrderID
	CInvoiceNumber
/180/	Getting Payment From CWS
, ===,	CCompanyID
	COrderID
	ClnvoiceNumber
	CTransferAmount
/190/	Delete Profile
	CCompanyID
	CVerificationCode
	CConfirmation1
	CConfirmation2
/200/	Deliveryman / Diek up Agent Logic
/200/	Deliveryman/Pick up Agent Login DMobileNumber
	DEmail
	DFullName
	DPassword
	- · · · · · · · · · · · · · · ·

	DC antirmed Descripted
/240/	DConfirmedPassword
/210/	New Deliveryman/Pick up Agent Creation
	DUserID
	DFirstName
	DLastName
	DMobileNo1
	DEmail
	DStreet
	DHouseNumber
	DCity
	DDistrict
	DCountry
/220/	Deliveryman/Pick up Agent Profile Management
	DUserID
	DFirstName
	DLastName
	DMobileNo1
	DEmail
	DStreet
	DHouseNumber
	DCity
	DDistrict
	DCountry
	DPinCode
	DDateOfBirth
	DReadyToWorkYesNo
	DStartTime
	DEndTime
	DDaySelect
/230/	Accept Request from CWS To the Deliveryman
	DUserID
	DOrderID
	DOrderDate
	DOrderDeliveryTo
	DNameOfAttire
	DUServiecName
	DDiscount
	DBillingAmount
	DullingAmount
/240/	Verify Order Acceptability
/240/	DOrderID
	DCustomeID
	DStatus
	DMessage
	Diviessage
/250/	Deliver the Product
, 230,	DFullName
	UServiceName
	UTotalPrice
	UDateOfOrder
	UDateOfDelivery
	UDeliverySchedule CMessage
/255/	CMessage Pick Up the Product
11661	PICK UN THE PROMICT
/255/	-
/233/	DFullName UServiceName

	1 m 1 m 1
	UTotalPrice
	UDateOfOrder
	UDateOfPickUp
	UPickUpSchedule
	CMessage
/260/	Update Account of CWS
	DUserID
	DOrderID
	DCustomeID
	DUpdateAccountOfCWS
/270/	
/270/	Sending Request for Review DUserID
	DOrderID
	DCustomeID
	DRiview
/280/	Dispatch to the Cleaner's Hub
	DFullName
	DServiceName
	DTotalPrice
	DDateOfOrder
	DDateOfPickUp
	DPickUpSchedule
	DMessage
	Divicasuge
/290/	Delete Profile Of Deliveryman
/230/	DUserID
	DVerificationCode
	DConfirmation1
	DConfirmation2
/300/	Employee Login
, ,	EEmail
	EVerificationCode
	EPassword
	EConfirmedPassword
	Econiiineurassword
/310/	Employee Creation
	EEmployeeID
	EGender
	EFirstName
	ELastName
	EDateOfBirth
	EMobileNo1
	EEmail
	EStreet
	EHouseNumber
	ECity
	EDistrict
	ECountry
	EPinCode
	EBasicPay
	EBasicPay EPostHold
/320/	EPostHold

	EGender
	EFirstName
	ELastName
	EDateOfBirth
	EMobileNo1
	EEmail
	EStreet
	EHouseNumber
	ECity
	EDistrict
	ECountry
	EPinCode
	EBasicPay
	EPost
	EWorkingArea
/330/	Status of Job
/340/	Delete Profile
	EEmployeeID
	EVerificationCode
	EConfirmation1
	EConfirmation2
	Guest User
/400/	Common User
	CUViewServiceDetails
	CUPriceOfService
	CUSendQueriesCWS
	CUFAQ
	CURespondFromCWS
	· · ·

3 Cost calculation

Function Point - Method

Category	Number	Classification	Weighting	Row Sum	Comments
	2	Low	3	6	Login
External Input	11	Average	4	44	Order
·	12	High	6	72	User registration
	1	Low	3	3	View Item list
External Inquiry	2	Average	4	8	Validate profile information
	0	High	6	0	
	1	Low	4	4	User login Confirmation
External Output	1	Average	5	5	User registration Confirmation
	2	High	7	14	Accounting report
	2	Low	7	14	User login
Internal Logical File	5	Average	10	50	Class models
-	3	High	15	45	Accounting report
	1	Low	5	5	Profile images
External Interface File	10	Average	7	70	User to application (Order Creation)
	2	High	10	20	JDBC to phpMySQL
Sum			E1	360	
Factors		ion with other n systems (0-5)		0	
	distributed 5)	ralized data, d processing (0- ction Rate (0-5)		0	
	4 Processing Logic			0	
	A computational operation (0-10)			1	
(Function point value change by +/- 30%)	B control procedures (0-5)			0	
	C exceptions (0-10)			0	
	D Logic (0-5)				
	5 reusability (0-5)			0	
	6 database conversions (0-5)			0	
	7 Adaptability (0-5)			2	
Sum of the 7 factors			E2	4	
Impact factor rating = (E2/100) + 0.7			E3	0.74	
Weighted Function Points: E1 * E3				266.4	
Effort by IBM table (interpolated)			E4		MM

4 Data-Flow Diagram

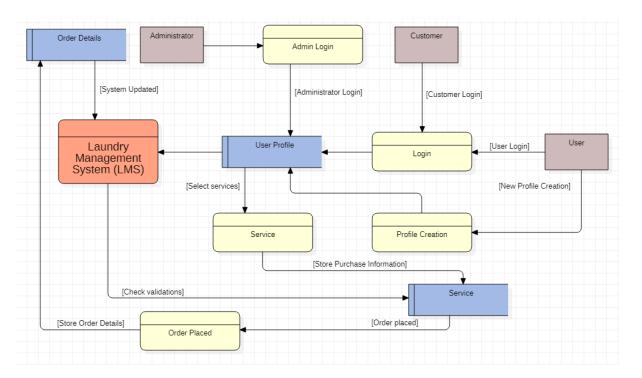


Figure 1: Data-Flow Diagram: Laundry Management system

Data-flow Diagram is representing the flow of data of a process in the Laundry Management System.

5 Use Case Diagrams

Laundry Management System (LMS)

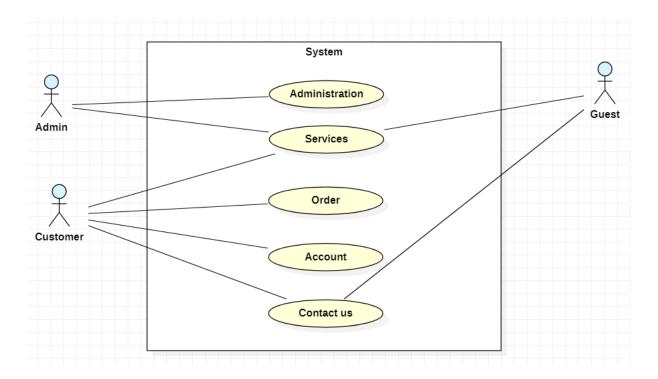


Figure 2: Use Case Diagram: Overview of LMS

The Use case diagram describes an overview of the system.

Use case services includes the Administration which has the functions Add new services and Modify the services is used by the Admin and List of All Services is used by the Customer and Guest.

Use case Order gives the functionality to create order, View Order history and cancelling the order to Customers.

Use case Account provides Customers to Create, View and Modify the profile and Admin can view all the Customers.

Use case Contact us provides platform for the customer to Contact Admin by using send message and Admin can view the message and reply to the same.

Services Management

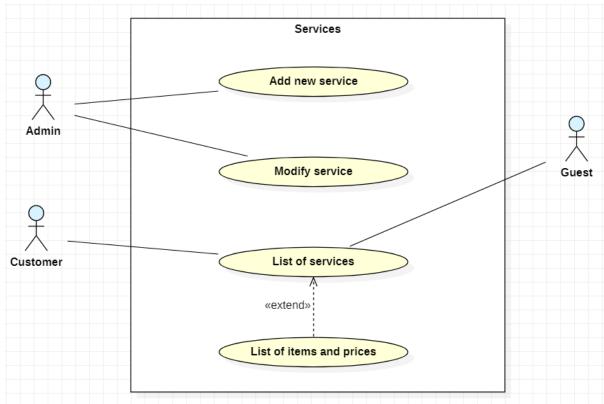


Figure 3: Use Case Diagram: Services

Now Admin and Customer has been registered in the system. Admin can add new services such as cloth items, prices and more details.

Also, it can be modified by using the use case Modify services to maintain the business requirements.

Use case List of services which can be accessed by the Customer who are registered with system and Guest, this use case includes the list of item and prices and more details on the service.

Order Management Order New Order Order Details Customer Cancel Order

Figure 4: Use Case Diagram: Order

Once the user logins to the system below action can be performed using the Use case diagram Order.

Order can be placed by use case New order and to check the history of the previous order, user need to access the Order details use case.

Order can be cancelled before it is sent for washing. Customer can place request for cancelling the order and then admin can check if it is possible.

Profile Management

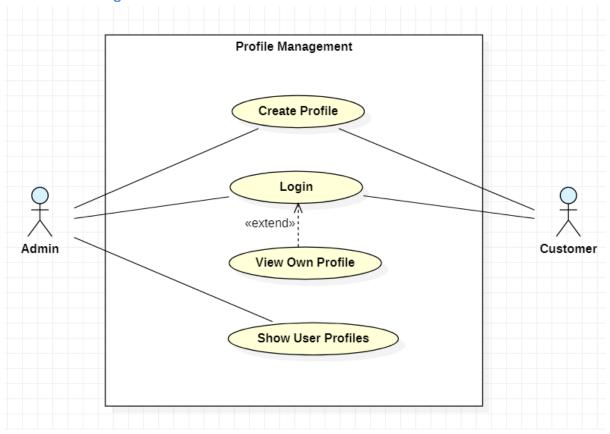


Figure 5: Use Case diagram: Profile Management

Above Use case diagram depicts account management for Admins and Customers.

Use case Create Profile allows Users to create account in the system.

Login provides platform for the users which are registered in the system to login and do the desired action. Login include the view profile for the User to check and modify its own profile.

Admin can check all the Customers which are registered in the system via show profile.

Contact us

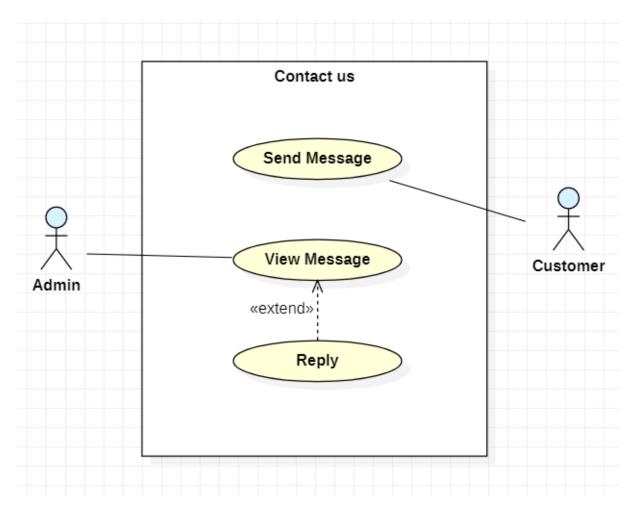
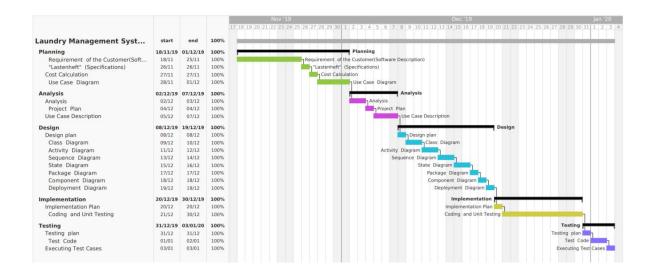


Figure 6: Use Case diagram: Contact us

Customers can contact the Admin for any complaint or suggestion by using the Contact us

Customers can send Message to the Admin, which will be checked by Admin by view message and will be replied by use case reply

6 Project Plan



Project plan for Laundry Management System was built by using online resource (Source: https://app.teamgantt.com/). The plan depicts the time course and the agreed specifications from 18th November 2019 to 03rd January 2020.

6 Use Case Description

User Login

/10/	User Login
Short Description	Customer and Admin can access their respective pages
Actors	Admin, Customer
Trigger	Enter credentials and Submit
Preconditions	Username and Password
Postconditions	User will be logged in the system
Normal Flow	1. Enter the Credentials
	2. Validate the entered data.
	3.Click on submit button
	4. User will be authenticated

User creation

/ 20/	User Creation
Short Description	Users will be registered in the system
Actors	Admin, Customer
Trigger	Enter all the data and Submit
Preconditions	Name, age, date of birth, sex, problem, place, date, mobile number, Email id and password should be known.
Postconditions	User will be registered, and data is stored in the table
Normal Flow	 Enter the required fields Validate the entered data. Click on submit button User will be registered.

User Profile Management

/ 30/	User Profile Management
Short Description	Users will be able to modify their profile
Actors	Admin, Customer
Trigger	View profile and click on update
Preconditions	User credentials and data which need to be updated
Postconditions	Changed data will be updated and saved in the database
Normal Flow	 Enter the fields which need to be updated Validate the entered data. Click on submit button User profile will be updated.

Place order

/ 40/	Place order
Short Description	Order will be submitted to Cleaners
Actors	Admin, Customer
Trigger	Create order and submit
Preconditions	User credentials, select the items
Postconditions	Order will be submitted and sent to cleaners
Normal Flow	1. Select the items which need to order
	2. Click on submit
	3.Cleaner will receive the order

View order

/ 50/	View order
Short Description	Order History will be displayed
Actors	Customer
Trigger	Create order and submit
Preconditions	At least 1 order should be placed before
Postconditions	Order will be submitted and sent to cleaners
Normal Flow	1. Select the items which need to order
	2. Click on submit
	3.Cleaner will receive the order

Billing details

/ 60/	Billing details
Short Description	Order History will be displayed
Actors	Customer
Trigger	Create order and submit
Preconditions	Order ID
Postconditions	User ID, Name of Company, Invoice Number, Date of Order, Delivery address, Number of services, Name of cloths, Basic Price, Discount if applicable, Tax, Total Amount to be paid should be displayed
Normal Flow	1. Select the items which need to order 2. Click on submit 4. Order received by cleaner 5. Order completed 6. Bill will be generated

Cancel Order

/ 70/	Cancel order
Short Description	Selected Order will be cancelled
Actors	Customer, Admin
Trigger	Cancel
Preconditions	At least 1 order should be placed before and order is not sent for washing
Postconditions	Order will be cancelled
Normal Flow	 Select the order to be cancelled Click on cancel Order will be cancelled

Delete Profile

/ 80/	Delete Profile
Short Description	User profile will be deleted
Actors	Customer, Admin
Trigger	Delete
Preconditions	User need to login
Postconditions	User should not be able to login after deletion
Normal Flow	1. Login 2. Click on Modify 3.Delete the Profile

Accept Order

/ 90/	Accept Order
Short Description	Cleaner will accept the order
Actors	Admin
Trigger	Accept
Preconditions	Order must be submitted by Customer and machine availability
Postconditions	Order will be submitted and sent to cleaners
Normal Flow	1.Customer places the order 2. Admin receives the order 3.Check for the requirements 4.Accept the order

Verify Order

/ 100/	Verify order
Short Description	Order will be checked if we can process as per the requirements
Actors	Admin
Trigger	Submit order
Preconditions	Customer submits the order
Postconditions	Order should be accepted or rejected based on requirements
Normal Flow	1.Customer places the order
	2. Admin receives the order
	3.Check for the requirements
	4.Accept the order

Show Status

/ 110/	Show Status
Short Description	Order status will be displayed
Actors	Admin
Trigger	Process completion
Preconditions	Order is accepted
Postconditions	Status will change according to the stage
Normal Flow	1. Order accepted
	2. Sent to next stage
	3.Status will be changed

Pickup product

/ 120/	Pickup product
Short Description	Order will be picked up
Actors	Delivery Person
Trigger	Order accepted
Preconditions	Order is accepted
Postconditions	Order will be picked up and updated the status
Normal Flow	1. Order accepted
	2. Pickup person will be notified
	3.Status will be changed
	4. Products are picked and sent to hub

Deliver product

/ 130/	Deliver Product
Short Description	Order History will be displayed
Actors	Delivery person
Trigger	Order completed
Preconditions	Order is washed
Postconditions	Order is delivered to customer
Normal Flow	1.Order is completed
	2. Delivered to Customer

7 Class diagrams

7.1 Domain Model

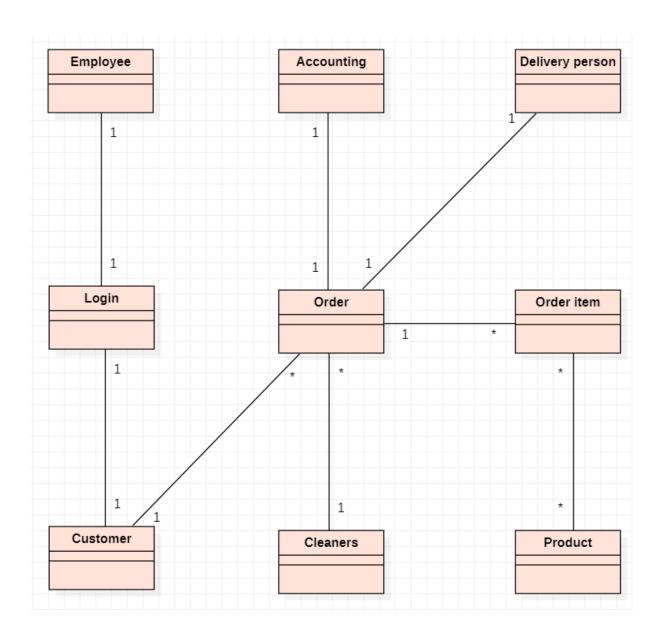


Figure 7: Domain Model

The above diagram explains all the entities and the relationships between them.

Class diagrams

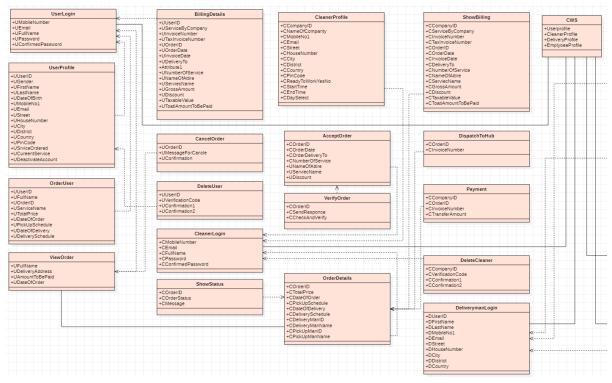


Figure 8: Class Diagram 1 of 2

The Class diagram depicts all the Classes that are required for Laundry Management system. Diagram shows a part of class diagram which defines the User interface, respective Action classes, Service classes and Data Access Objects (DAO) objects respectively.

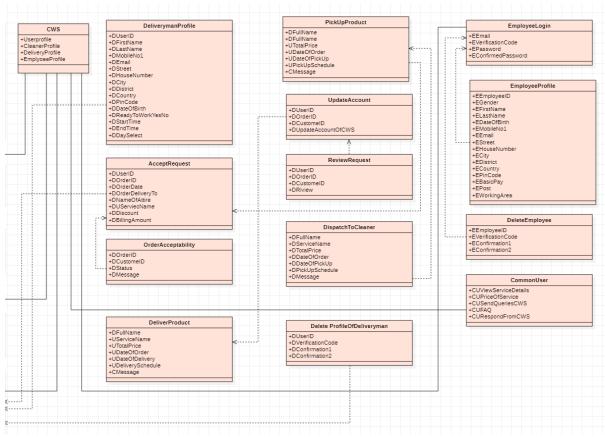


Figure 9: Class Diagram 2 of 2

Description and attributes for all the classes in the diagram is given below:

	CLASS: UserLogin	
/10/	Attributes	Description
	UMobileNumber UEmail UFullName UPassword UConfirmedPassword	This is the login page of the system when new users are created. Here Mobile Number or Email ID is required for login. We can enter the password and confirmed password and after verification user can enter details.
	CLASS: UserCreation	
/20/	Attributes	Description
	UUserID	After the login page user can get auto generated user ID.
	UGender	Now user can enter the details like Gender, First name, Last name, Gender, Date of Birth, Mobile Number, Email, Street

		UFirstName	name, House Number, City, District, Country, Pin Code.
		ULastName	
		UDateOfBirth	
		UMobileNo1	
		UEmail	
		UStreet	
		UHouseNumber	
		UCity	
		UDistrict	
		UCountry	
		UPinCode	
			CLASS: UserProfile
_	0/	Attributes	Description
/3	U/	Attributes	Description
/3	U /	UUserID	After the creation of profile, a user can modify the profile
/30			After the creation of profile, a user can modify the profile details like Gender, First name, Last name, Gender, Date of
/30	.	UUserID	After the creation of profile, a user can modify the profile details like Gender, First name, Last name, Gender, Date of Birth, Mobile Number, Email, Street name, House Number, City, District, Country, Pin Code. Here user can view the
/30	.	UUserID UGender	After the creation of profile, a user can modify the profile details like Gender, First name, Last name, Gender, Date of Birth, Mobile Number, Email, Street name, House Number,
/3	.	UUserID UGender UFirstName	After the creation of profile, a user can modify the profile details like Gender, First name, Last name, Gender, Date of Birth, Mobile Number, Email, Street name, House Number, City, District, Country, Pin Code. Here user can view the services which are requested by him/her. User can also
/3		UUserID UGender UFirstName ULastName	After the creation of profile, a user can modify the profile details like Gender, First name, Last name, Gender, Date of Birth, Mobile Number, Email, Street name, House Number, City, District, Country, Pin Code. Here user can view the services which are requested by him/her. User can also deactivate
/3/		UUserID UGender UFirstName ULastName UDateOfBirth	After the creation of profile, a user can modify the profile details like Gender, First name, Last name, Gender, Date of Birth, Mobile Number, Email, Street name, House Number, City, District, Country, Pin Code. Here user can view the services which are requested by him/her. User can also deactivate
/3/		UUserID UGender UFirstName ULastName UDateOfBirth UMobileNo1	After the creation of profile, a user can modify the profile details like Gender, First name, Last name, Gender, Date of Birth, Mobile Number, Email, Street name, House Number, City, District, Country, Pin Code. Here user can view the services which are requested by him/her. User can also deactivate
/3/		UUserID UGender UFirstName ULastName UDateOfBirth UMobileNo1 UEmail	After the creation of profile, a user can modify the profile details like Gender, First name, Last name, Gender, Date of Birth, Mobile Number, Email, Street name, House Number, City, District, Country, Pin Code. Here user can view the services which are requested by him/her. User can also deactivate
/3/		UUserID UGender UFirstName ULastName UDateOfBirth UMobileNo1 UEmail UStreet	After the creation of profile, a user can modify the profile details like Gender, First name, Last name, Gender, Date of Birth, Mobile Number, Email, Street name, House Number, City, District, Country, Pin Code. Here user can view the services which are requested by him/her. User can also deactivate
/3/		UUserID UGender UFirstName ULastName UDateOfBirth UMobileNo1 UEmail UStreet UHouseNumber	After the creation of profile, a user can modify the profile details like Gender, First name, Last name, Gender, Date of Birth, Mobile Number, Email, Street name, House Number, City, District, Country, Pin Code. Here user can view the services which are requested by him/her. User can also deactivate
/3/		UUserID UGender UFirstName ULastName UDateOfBirth UMobileNo1 UEmail UStreet UHouseNumber UCity	After the creation of profile, a user can modify the profile details like Gender, First name, Last name, Gender, Date of Birth, Mobile Number, Email, Street name, House Number, City, District, Country, Pin Code. Here user can view the services which are requested by him/her. User can also deactivate

	T.,,,	
	USrviceOrdered	
	UCureentService	
	UDeactivateAccount	
		CLASS: PlaceOrderByUser
		-
/40/	Attributes	Description
	UUserID	In this module user can easily place the order from their
	UFullName	profile and the Order ID, Service, Amount to be paid, Date of Order, Pick Up Schedule, Date of Delivery, and the
	UOrderID	Delivery Schedule.
	UServiceName	
	UTotalPrice	
	UDateOfOrder	
	UPickUpSchedule	
	UDateOfDelivery	
	UDeliverySchedule	
		CLASS: ViewOrder
/50/	Attributes	Description
		In this module user can see order details (Service) as well as
	UFullName	User ID, Name, Order ID, Service, Amount to be paid, Date of Order, Pick Up Schedule, Date of Delivery, and the
	UDeliveryAddress	Delivery Schedule by using their user ID.
	UAmountToBePaid	
	UDateOfOrder	
	- Courte of a contract	
		CLASS:Billing details
/60/	Attributes	Description
	UUserID	In this module user can see billing details by using Order ID.
	UServiceByCompany	It displays as well as User ID, Name of Company, Invoice Number, Date of Order, Delivery address, Number of

	UInvoiceNumber	services, Name of cloths, Basic Price, Discount if applicable,
	UTaxInvoiceNumber	Tax, Total Amount to be paid.
	UOrderID	
	UOrderDate	
	UInvoiceDate	
	UDeliveryTo	
	UNumberOfService	
	UNameOfAttire	
	UServiecName	
	UGrossAmount	
	UDiscount	
	UTaxableValue	
	UToatlAmountToBePaid	
		CLASS: CancelOrder
/70/	Attributes	Description
	UOrderID	Here user can cancel the services before it is starting and
	UMessageForCalcel	send reason of cancelation by using order ID.
	UConfirmation	
		CLASS: DeleteProfile
1001		
/80/	Attributes	Description
	UUserID	and the second s
	Ooserib	Here if user wants to discontinue to keep his/her profile
	UVerificationCode	software provides easy way to deactivate the account after
		software provides easy way to deactivate the account after getting the confirmations but data will be remained store in the database of CWS, but it will be invisible the user after
	UVerificationCode	software provides easy way to deactivate the account after getting the confirmations but data will be remained store in
	UVerificationCode UConfirmation1	software provides easy way to deactivate the account after getting the confirmations but data will be remained store in the database of CWS, but it will be invisible the user after
	UVerificationCode UConfirmation1	software provides easy way to deactivate the account after getting the confirmations but data will be remained store in the database of CWS, but it will be invisible the user after

	CMobileNumber	This is the login page of the system when new Cleaners who
	CEmail	will clean the cloths are created. Here Mobile Number or Email ID is required for login. We can enter the password
	CFullName	and confirmed password and after verification Cleaners can enter details.
	CPassword	
	CConfirmedPassword	
		CLASS: CleanerCreation
/100/	Attributes	Description
	CCompanyID	After the login page Cleaner can get auto generated user ID.
	CNI a ser Of Community	Now Cleaner can enter the details like Name of Company,
	CNameOfCompnay	Mobile Number, Email, Street name, House Number, City,
	CMobileNo1	District, Country, Pin Code.
	CEmail	
	CStreet	
	CHouseNumber	
	CCity	
	CD: 1 .: 1	
	CDistrict	
	CCountry	
		CLASS: CleanerProfile
		CLASS: CleanerProfile
		CLASS: CleanerProfile
/110/		CLASS: CleanerProfile Description
/110/	CCountry	
/110/	CCountry Attributes	Description
/110/	CCountry Attributes CCompanyID	Description After the creation of profile, Cleaner can modify the profile details Mobile Number, Name of Company, Email, Street name, House Number, City, District, Country, Pin Code. They can also set the services which are provided by them and
/110/	CCountry Attributes CCompanyID CNameOfCompanty	Description After the creation of profile, Cleaner can modify the profile details Mobile Number, Name of Company, Email, Street name, House Number, City, District, Country, Pin Code. They can also set the services which are provided by them and specify the time of starting and ending of the job and select the days when they are available. Here Cleaner control the
/110/	CCountry Attributes CCompanyID CNameOfCompanty CMobileNo1	Description After the creation of profile, Cleaner can modify the profile details Mobile Number, Name of Company, Email, Street name, House Number, City, District, Country, Pin Code. They can also set the services which are provided by them and specify the time of starting and ending of the job and select
/110/	CCountry Attributes CCompanyID CNameOfCompanty CMobileNo1 CEmail	Description After the creation of profile, Cleaner can modify the profile details Mobile Number, Name of Company, Email, Street name, House Number, City, District, Country, Pin Code. They can also set the services which are provided by them and specify the time of starting and ending of the job and select the days when they are available. Here Cleaner control the services which are given by CWS. Cleaner can also
/110/	CCountry Attributes CCompanyID CNameOfCompanty CMobileNo1 CEmail CStreet	Description After the creation of profile, Cleaner can modify the profile details Mobile Number, Name of Company, Email, Street name, House Number, City, District, Country, Pin Code. They can also set the services which are provided by them and specify the time of starting and ending of the job and select the days when they are available. Here Cleaner control the services which are given by CWS. Cleaner can also
/110/	CCountry Attributes CCompanyID CNameOfCompanty CMobileNo1 CEmail CStreet CHouseNumber	Description After the creation of profile, Cleaner can modify the profile details Mobile Number, Name of Company, Email, Street name, House Number, City, District, Country, Pin Code. They can also set the services which are provided by them and specify the time of starting and ending of the job and select the days when they are available. Here Cleaner control the services which are given by CWS. Cleaner can also

	CCountry		
	CPinCode		
	CReadyToWorkYesNo		
	CStartTime		
	CEndTime		
	CDaySelect		
		CLASS: AcceptOrder	
/120/	Attributes	Description	
	COrderID	In this wood, its conday (somitions) are contained the Classican and	
	Cordenib	In this module order (services) are sent to the Cleaners and they accept Order ID, date of order, date of delivery,	
	COrderDate	number services, name of attire, name of service	
	COrderDeliveryTo	temporarily. Then it sends for checking whether order can	
	CNumberOfService	accept or not.	
	UNameOfAttire		
	UServiecName		
	UDiscount		
		CLASS: VerifyOrder	
/130/	Attributes	Description	
	COrderID	Here check the status of workload and if the orders	
	CCheckAndVerify	(services) are deliverable with specified scheduled, then orders are accepted, otherwise response the CWS that	
	CSendResponce	orders are accepted by using Order ID.	
		CLASS: ShowStatus	
/140/	Attributes	Description	
/140/	Attributes	Description	
		In this function if order(services) is accepted and show the	
	COrderID	staus of order and send the message to Customer.	

	CO de Clata		
	COrderStatus		
	CMessage		
	CLASS: OrderDetails		
/150/	Attributes	Description	
	COrderID	In this phase Cleaner can see the details of order like Order	
	CTotalPrice	ID, date of Order, Total Price, Pickup and Delivery Schedule, name of Delivery or Pick Up man.	
	CDateOfOrder		
	CPickUpSchedule		
	CDateOfDelivery		
	CDeliverySchedule		
	CDeliveryManID		
	CDeliveryManName		
	CPickUpManID		
	CPickUpManName		
		CLASS: ShowBilling	
/160/	Attributes	Description	
	CCompanyID	In this module user can see billing details by using Customer	
	CServiceByCompany	Order ID. It displays as well as Name of Company, Invoice Number, Date of Order, Delivery address, Number of	
	ClnvoiceNumber	services, Name of cloths, Basic Price, Discount if applicable, Tax, Total Amount to be paid.	
	CTaxInvoiceNumber	rax, rotal Amount to be palu.	
	COrderID		
	COrderDate		
	CInvoiceDate		
	CDeliveryTo		
	CNumberOfService		

	CNameOfAttire	
	CServiecName	
	CGrossAmount	
	CDiscount	
	CTaxableValue	
	CToatlAmountToBePaid	
		CLASS: DispatchToHub
/170/	Attributes	Description
7 17 07	Acciloaces	Description
	COrderID	This function just sends the billing to the CWS including
	CInvoiceNumber	billing details
		CLASS: Payment
		·
/180/	Attributes	Description
/180/	Attributes CCompanyID	Here Cleaner will get the payment from CWS. It contains
/180/	CCompanyID	Here Cleaner will get the payment from CWS. It contains Company ID, Order ID, Invoice Number and Amount to be
/180/	CCompanyID COrderID	Here Cleaner will get the payment from CWS. It contains
/180/	CCompanyID	Here Cleaner will get the payment from CWS. It contains Company ID, Order ID, Invoice Number and Amount to be
/180/	CCompanyID COrderID	Here Cleaner will get the payment from CWS. It contains Company ID, Order ID, Invoice Number and Amount to be
/180/	CCompanyID COrderID CInvoiceNumber	Here Cleaner will get the payment from CWS. It contains Company ID, Order ID, Invoice Number and Amount to be
/180/	CCompanyID COrderID CInvoiceNumber	Here Cleaner will get the payment from CWS. It contains Company ID, Order ID, Invoice Number and Amount to be transferred.
	CCompanyID COrderID CInvoiceNumber CTransferAmount	Here Cleaner will get the payment from CWS. It contains Company ID, Order ID, Invoice Number and Amount to be transferred. CLASS: DeleteCleaner
/180/	CCompanyID COrderID CInvoiceNumber	Here Cleaner will get the payment from CWS. It contains Company ID, Order ID, Invoice Number and Amount to be transferred.
	CCompanyID COrderID CInvoiceNumber CTransferAmount	Here Cleaner will get the payment from CWS. It contains Company ID, Order ID, Invoice Number and Amount to be transferred. CLASS: DeleteCleaner Description Here if cleaners want to discontinue to keep his/her profile,
	CCompanyID COrderID CInvoiceNumber CTransferAmount Attributes	Here Cleaner will get the payment from CWS. It contains Company ID, Order ID, Invoice Number and Amount to be transferred. CLASS: DeleteCleaner Description
	CCompanyID COrderID CInvoiceNumber CTransferAmount Attributes CCompanyID	Here Cleaner will get the payment from CWS. It contains Company ID, Order ID, Invoice Number and Amount to be transferred. CLASS: DeleteCleaner Description Here if cleaners want to discontinue to keep his/her profile, software provides easy way to deactivate the account after getting the confirmations, but data will be remained store in the database of CWS, but it will be invisible to the Cleaners
	CCompanyID COrderID CInvoiceNumber CTransferAmount Attributes CCompanyID CVerificationCode CConfirmation1	Here Cleaner will get the payment from CWS. It contains Company ID, Order ID, Invoice Number and Amount to be transferred. CLASS: DeleteCleaner Description Here if cleaners want to discontinue to keep his/her profile, software provides easy way to deactivate the account after getting the confirmations, but data will be remained store in the database of CWS, but it will be invisible to the Cleaners after deactivation. It asks for Company ID, Verification Code
	CCompanyID COrderID CInvoiceNumber CTransferAmount Attributes CCompanyID CVerificationCode	Here Cleaner will get the payment from CWS. It contains Company ID, Order ID, Invoice Number and Amount to be transferred. CLASS: DeleteCleaner Description Here if cleaners want to discontinue to keep his/her profile, software provides easy way to deactivate the account after getting the confirmations, but data will be remained store in the database of CWS, but it will be invisible to the Cleaners
	CCompanyID COrderID CInvoiceNumber CTransferAmount Attributes CCompanyID CVerificationCode CConfirmation1	Here Cleaner will get the payment from CWS. It contains Company ID, Order ID, Invoice Number and Amount to be transferred. CLASS: DeleteCleaner Description Here if cleaners want to discontinue to keep his/her profile, software provides easy way to deactivate the account after getting the confirmations, but data will be remained store in the database of CWS, but it will be invisible to the Cleaners after deactivation. It asks for Company ID, Verification Code

	CLASS: Deliveryman Login				
/200/	Attributes	Description			
	DUserID DFirstName DLastName DMobileNo1 DEmail DStreet DHouseNumber DCity DDistrict DCountry	This is the login page of the system when new Delivery Agents are created. Here Mobile Number or Email ID is required for login. We can enter the password and confirmed password and after verification user can enter details.			
	CLASS:DeliverymanCreation				
/210/	Attributes	Description			
/210/	DUserID DFirstName DLastName DMobileNo1 DEmail DStreet DHouseNumber DCity DDistrict DCountry	After the login page New Delivery Agent can get auto generated user ID. Now Delivery Agent can enter the details like Gender, First name, Last name, Gender, Date of Birth, Mobile Number, Email, Street name, House Number, City, District, Country, Pin Code.			
/210/	DUserID DFirstName DLastName DMobileNo1 DEmail DStreet DHouseNumber DCity DDistrict	After the login page New Delivery Agent can get auto generated user ID. Now Delivery Agent can enter the details like Gender, First name, Last name, Gender, Date of Birth, Mobile Number, Email, Street name, House Number, City,			

/220/	Attributes	Description
	DUserID DFirstName DLastName DMobileNo1 DEmail DStreet DHouseNumber DCity DDistrict DCountry DPinCode DDateOfBirth DReadyToWorkYesNo DStartTime DEndTime DDaySelect	After the creation of profile, Delivery Agent can modify the profile details Mobile Number, Email, Street name, House Number, City, District, Country, Pin Code. They can also set the schedule when they are for work. In which date and what time, they are ready to work can also be modified. They can also deactivate the account if they want by easy way.
		CLASS: AcceptRequest
/230/	Attributes	Description
	Deliveryman DUserID DOrderID DOrderDate DOrderDeliveryTo DNameOfAttire DUServiecName DDiscount	Here check the status of workload and if the Delivery Agent is free to provide the Service, then they can accept the request from CWS and provide the status of their availability. Here they can get Order ID, Date of Order, Address of Delivery, Name of Attire, Name of service and billing details.

	DBillingAmount	
		CLASS: VerifyOrder
/240/	Attributes	Description
	DOrderID	Here check the status of workload and if the orders
	DCustomeID	(services) are deliverable with specified scheduled, then orders are accepted, otherwise response the CWS that
	DStatus	orders are accepted by using Order ID. They can send
	DMessage	message to the CWS.
		CLASS: DeliverProduct
/250/	Attributes	Description
	DFullName	In this function Delivery Agent get the details of Customer
	UServiceName	to deliver the items and they get the information like Name, Name of service. Total Price, date of order of service, date
	UTotalPrice	of delivery, time schedule and send the message services.
	UDateOfOrder	
	UDateOfDelivery	
	UDeliverySchedule	
	CMessage	
		CLASS: PickUpProduct
/255/	Attributes	Description
	DFullName	In this function Delivery Agent get the details of Customer
	UServiceName	to pick up the items and they get the information like Name, Name of service. Total Price, date of order of service, date
	UTotalPrice	of delivery, time schedule and send the message services.
	UDateOfOrder	
	UDateOfPickUp	

	LID'-LLL-C-l	
	UPickUpSchedule	
	CMessage	
		CLASS: UpdateAccount
/260/	Attributes	Description
	DUserID	After collection the money from customer they update the
	DOrderID	account of CWS if cash is collected (direct cash Service). and
	Dordend	also send messages the customers for confirmation and
	DCustomeID	feedback.
	DUpdateAccountOfCWS	
		CLASS: RequestReview
/270/	Attributes	Description
	DUserID	After the delivery to the customer they send the messages
	DOrderID	and request for feedback by using Order ID, Customer ID
	Dordenb	and review.
	DCustomeID	
	DRiview	
		CLASS: DispatchToCleaner
		<u> </u>
/280	Attributes	Description
	DFullName	To send the cloths to the Cleaner's Hub and provides the
		Order ID, Name of Delivery Agent, ID of Delivery Agent.
	DServiceName	They get the date of Order (service) and date and time of
	DTotalPrice	pick up and send message after dispatch.
	DDateOfOrder	
	DDateOfPickUp	
	DPickUpSchedule	
	·	
	DMessage	
1		

	<u>C</u> I	LASS: Delete ProfileDeliveryman		
/290	Attributes	Description		
	DUserID	Here if Delivery Agent want to discontinue to keep his/her		
	Doserio	profile, software provides easy way to deactivate the		
	DVerificationCode	account after getting the confirmations but data will be		
	DConfirmation1	remain store in the database of CWS but it will be invisible		
	DC- of investigation	to the Delivery Agent after deactivation. It asks for user ID,		
	DConfirmation2	Verification Code and Confirmation.		
		CLASS: EmployeeLogin		
/300/	Attributes	Description		
/300/	Attributes	Description		
	EEmail	This is the login page of the system when new Employees		
	EVerificationCode	are created. Here an Email ID and Verification Code and		
	ED	Password are required for login which are provided in the Email at the time recruitment.		
	EPassword			
	EConfirmedPassword			
		CLASS: EmployeeCreation		
		<u>en los employeces cation</u>		
/310/	Attributes	Description		
	EEmployeeID	After the login page, an employee details are created by		
	EGender	CWS and details are stored like Employee ID, Gender, First		
	Locitice	name, Last name, Gender, Date of Birth, Mobile Number,		
	EFirstName	Email, Street name, House Number, City, District, Country, Pin Code, working post and working area		
	ELastName	The state of the s		
	EDateOfBirth			
	EMobileNo1			
	EEmail			
	EStreet			

	EHouseNumber			
	ECity			
	EDistrict			
	ECountry			
	EPinCode			
	EBasicPay			
	EPostHold			
	EWorkingArea			
		CLASS: EmployeeProfile		
/320/	Attributes	Description		
	EEmployeeID	After the entering the user's details, Cleaner can modify the		
	EGender	profile details		
	EFirstName	like Employee ID, Gender, first name, Last name, Gender, Date of Birth, Mobile Number, Email, Street name, House Number, City, District, Country, Pin Code, working post and		
	ELastName			
	EDateOfBirth	working area		
	EMobileNo1			
	EEmail			
	EStreet			
	EHouseNumber			
	ECity			
	EDistrict			
	ECountry			
	EPinCode			
	EBasicPay			
	EPost			
		1		

	C	LASS: DeleteProfileOfEmployee
/330/	Attributes	Description
	EEmployeeID EVerificationCode EConfirmation1 EConfirmation2	Here the details of a profile can deleted by administrator of CWS by using Employee ID, but data will be remained stored in the database of CWS, but it will be invisible to the Employee after deletion.
		CLASS: CommonUser
/340/	Attributes	Description
	CUViewServiceDetails CUPriceOfService	This function provides the common user to view the services are provided by the CWS and the rate of price and they can send some queries or FAQ and CWS responds to
	CUSendQueriesCWS	the common users.
	CUFAQ	
	CURespondFromCWS	

7 Component Diagram

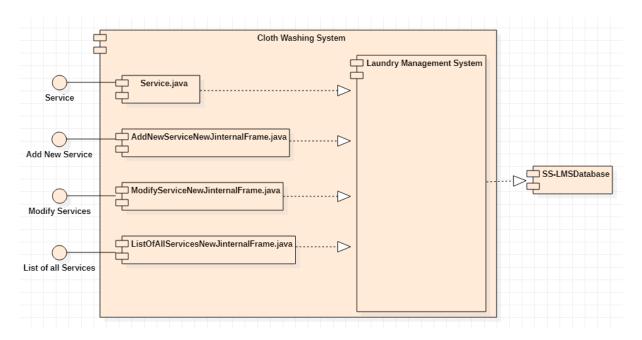


Figure 10: Component Diagram – Service Management

The component diagram gives the overview of the Service Management module. Service module will provide the platform to perform operations such as adding, modifying and listing all the services available.

AddNewServiceNewJinternalFrame class will add the new services in the system by providing the required details and the services will be added. This class is only accessible to admin.

ModifyServiceNewJinternalFrame class allows you to modify the services which were added earlier in the system. This class is only accessible to admin.

ListOfAllServicesNewJinternalFrame class will give the list of all the services that are available in the system. This class is accessible to Admin, customer as well as the Guest.

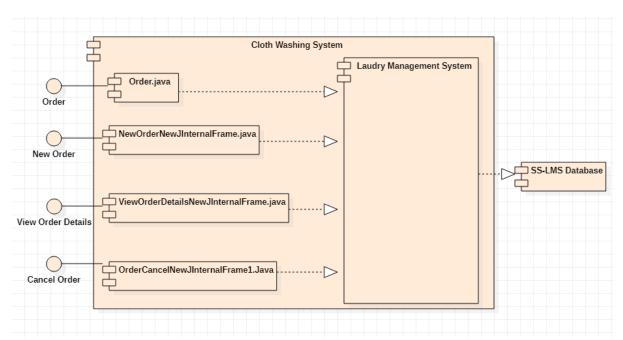


Figure 11: Component Diagram – Order Management

The component diagram shows the overview of the Order management module. The Order class provides access to create, cancel and view the order history.

NewOrderNewJInternalFrame class allows to create new order which is accessible by customers and admin.

ViewOrderDetailsNewJinternalFrame class enables to view current order status and the order history for pervious orders. This class can be accessed by admin and Customer

OrderCancelNewJInternalFrame class is designed to cancel the current order. This class can only be accessed by the admin.

8 Sequence Diagram

9.1 Sequence Diagram Profile Registration

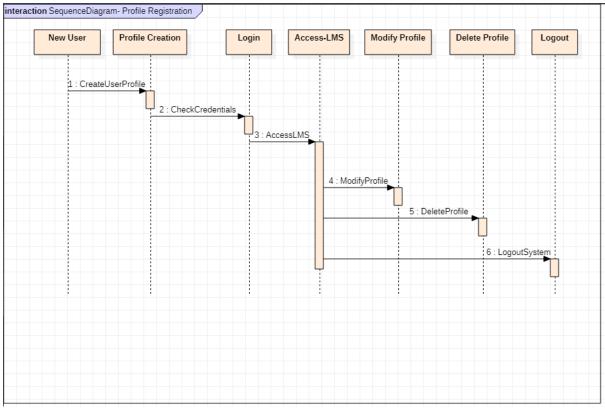


Figure 12: Sequence Diagram Profile Registration

Above Sequence diagram of Profile Registration. User enters all the required data and submits it. New profile Object is created with data entered. User is checked if already exists. If the user does not exist, then data is inserted into database.

Sequence diagram Service

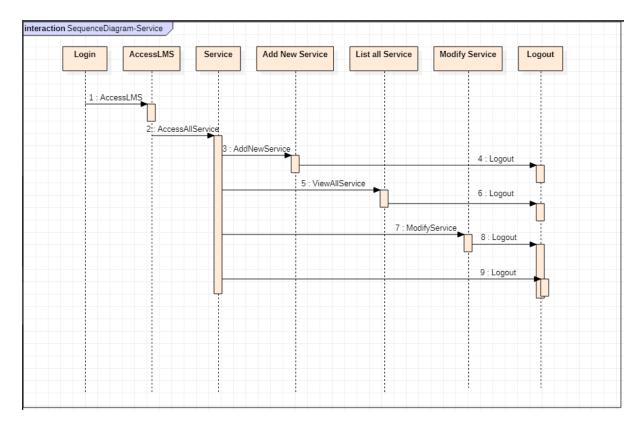


Figure 13: Sequence Diagram Service management

Figure 12 depicts Sequence diagram of Service Management. Admin will register the new services and provide the required data for the same. User enters all the relevant data to search the service. New Object is created with respective data.

Sequence diagram Order

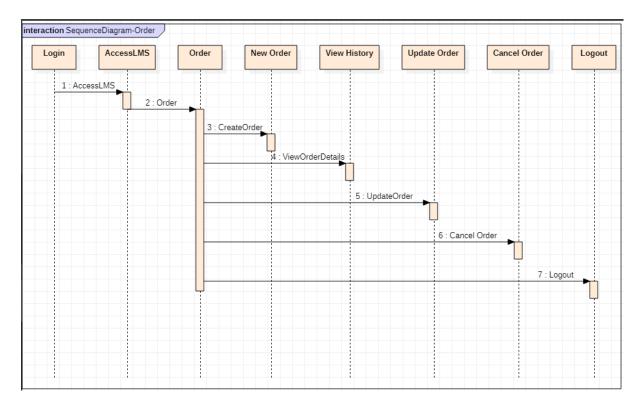


Figure 14: Sequence Diagram Order

Sequence diagram show the flow of Order management which handles the order creation, cancellation of order and order history. In order to place the order user must select the items. New Data object will be created with data given by the user.

9.4 Sequence diagram Accounting

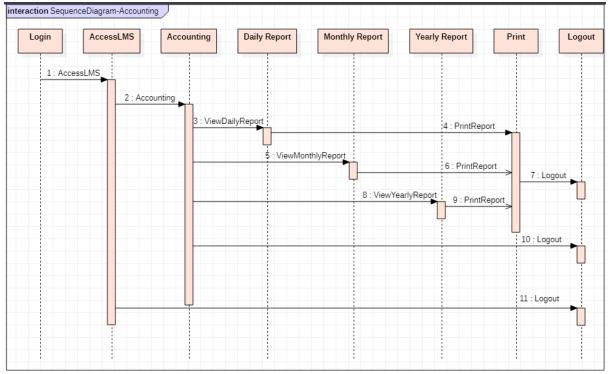


Figure 15: Sequence diagram Accounting

Sequence diagram of Accounting shows the flow to check the daily, monthly and yearly report for the account. Admin must select the date, month or year with respective the report and the object will be created with entered data.

9 State diagram

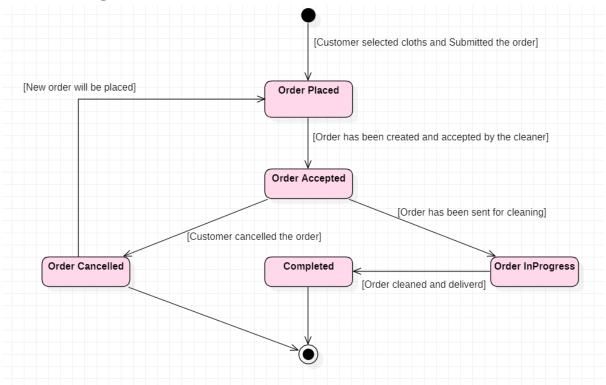


Figure 16: State chart for Order

State diagram represents different states of Order object. Customer will place the order initially, then it will be sent to admin for acceptance. Once the Order is accepted it can be sent to next phase or it can be cancelled.

If the order is accepted, then it will send for cleaning and will be delivered on cleaning then order will go to "completed" state.

If customer want to cancel the order, then order will be cancelled and set to "cancelled" state.

10 Activity Diagrams

Customer Registration

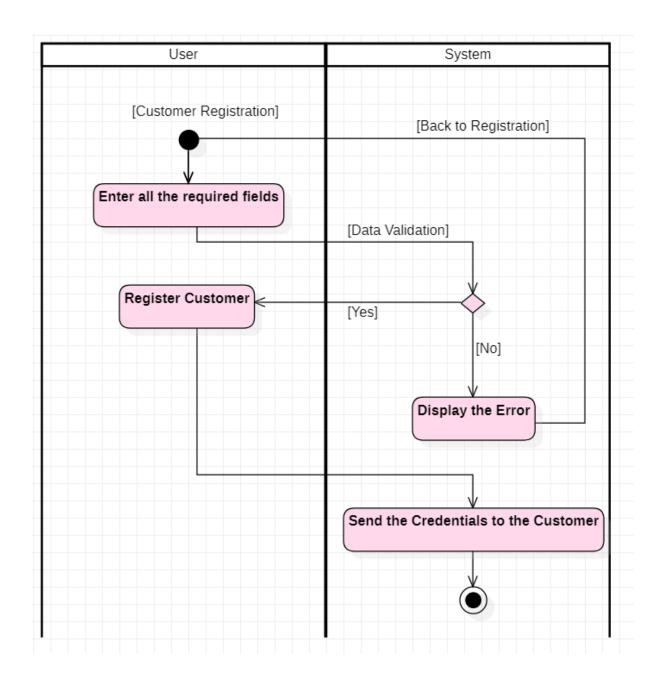


Figure 17: Activity diagram Customer Registration

Customer Management

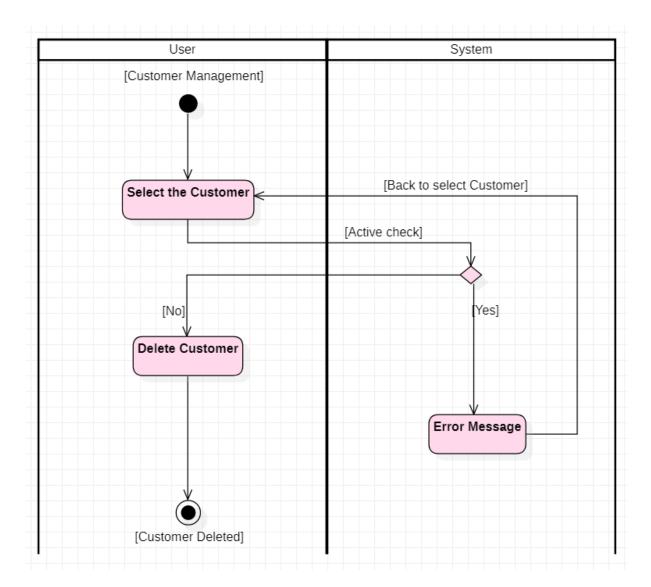


Figure 18: Activity diagram Customer management

Admin Registration

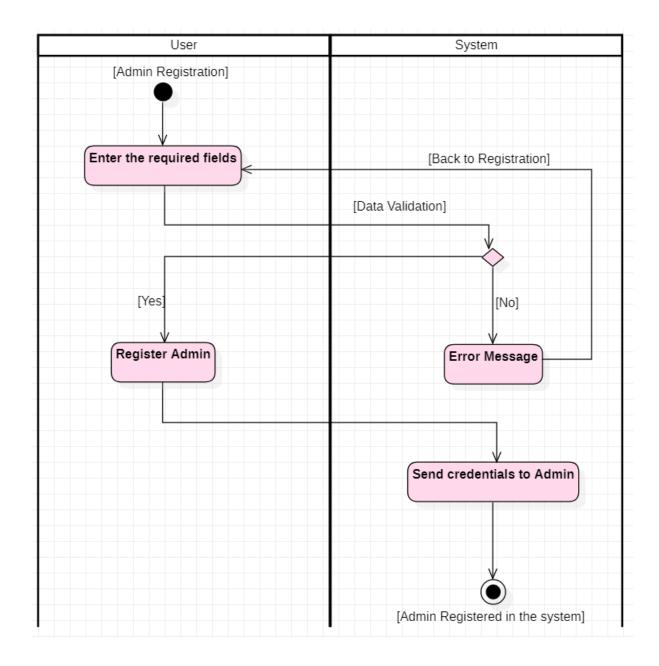


Figure 19: Activity diagram Admin Registration

Add Services

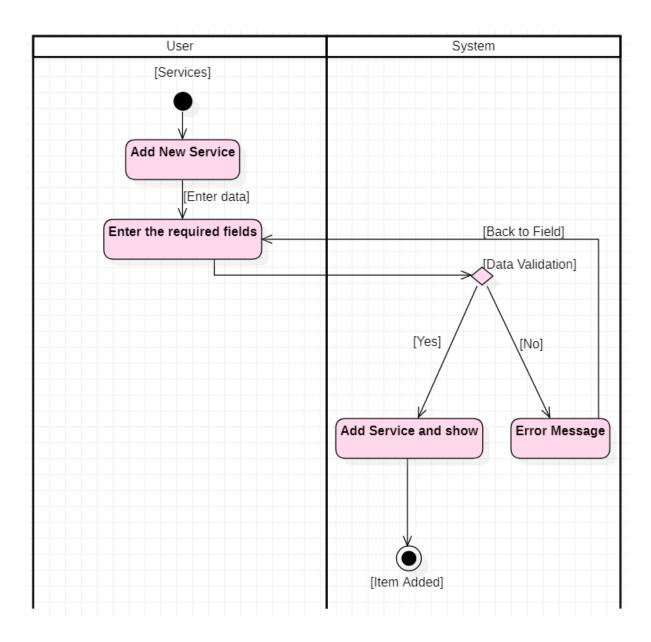


Figure 20: Activity diagram Add Services

List Services

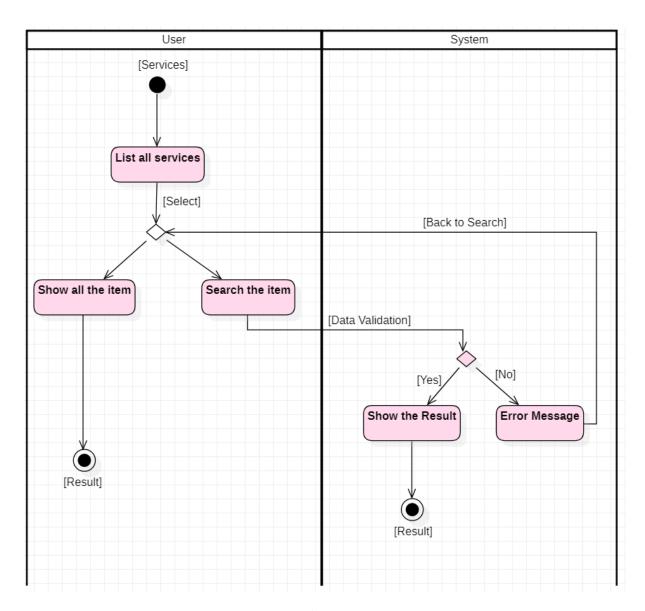


Figure 21: Activity diagram List Services

Modify Services

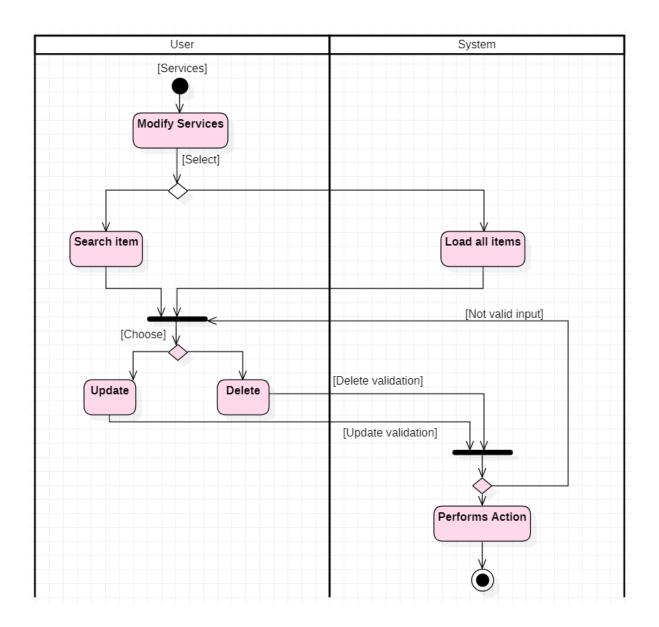


Figure 22: Activity diagram Modify Services

Contact Us

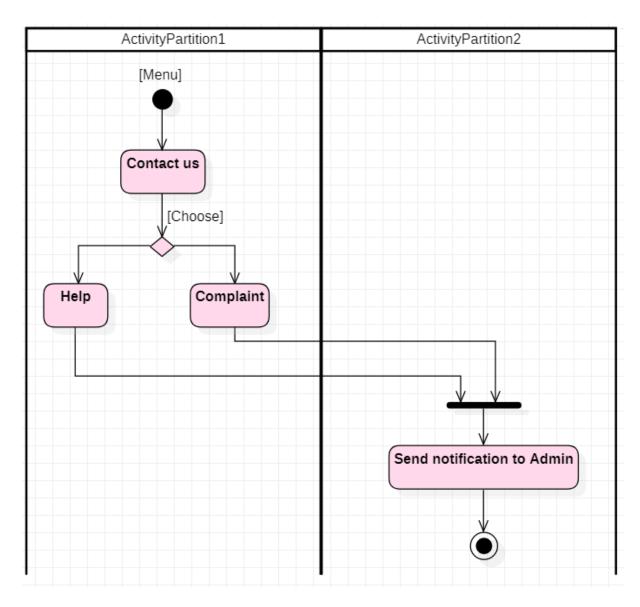


Figure 23: Activity diagram Contact us

Create Order

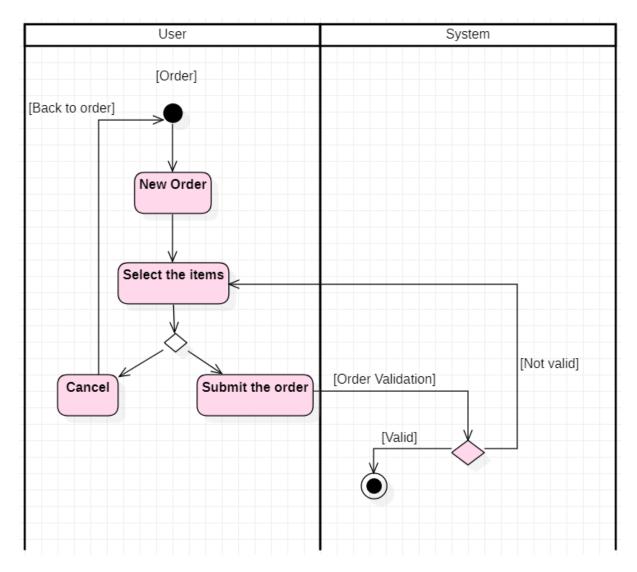


Figure 24: Activity diagram Create Order

Customer has to select or search the appropriate list of items and display it. Once all the items are selected, cutomer can place the order.

On selection of the items order can be submitted or cancelled. If customer cancelles the order then state will be set to "Cancel".

Once the customer has submitted the order. State will be set to "Completed"

Order History

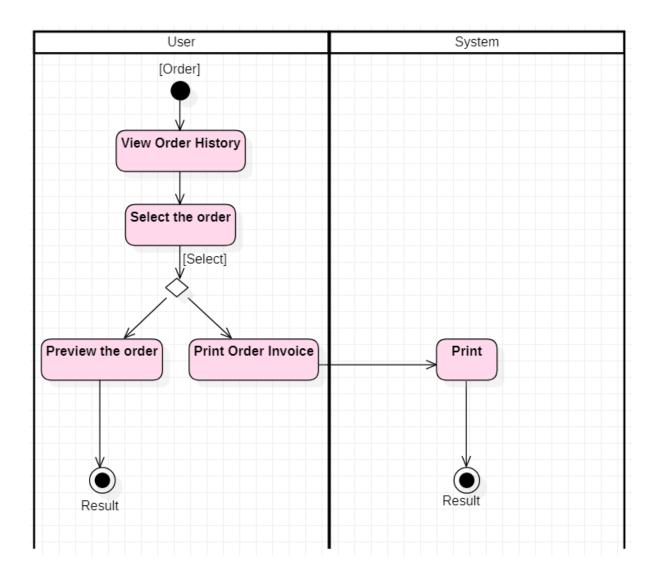


Figure 25: Activity diagram Order History

Above State diagram shows the flow for Order History. Customer must select one of the orders which they have placed earlier to check the order details.

Customer has two option either one can preview the order details or print the order invoice

Order cancellation

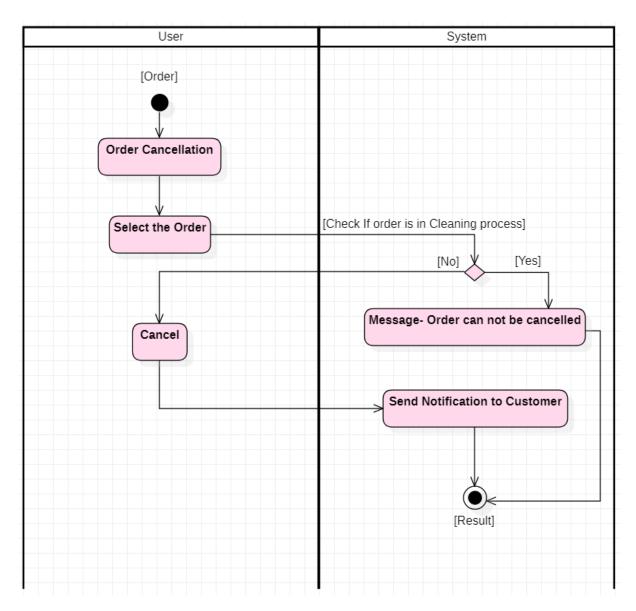


Figure 26: Activity diagram Order Cancellation

Activity diagram Order cancellation represent the process of cancelling the order. Customer needs to select the active order which need to be cancel.

Once the Customer selects the order to cancel, then system will check if the order is in cleaning process. If the order is in cleaning process then it can not be cancelled, customer will be notified and if the order is not sent for the cleaning, then it can be cancelled.

Accounting

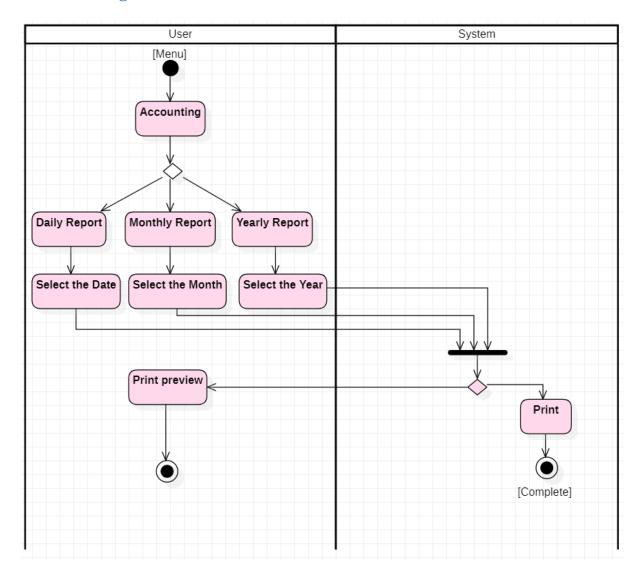


Figure 27: Activity diagram Accounting

Above State diagram represents the Accounting which includes reporting on daily, monthly and yearly basis.

Admin must select the function which need to be executed and fill the data accordingly. Once admin enter the data, report can be printed or previewed.

11 Package diagram

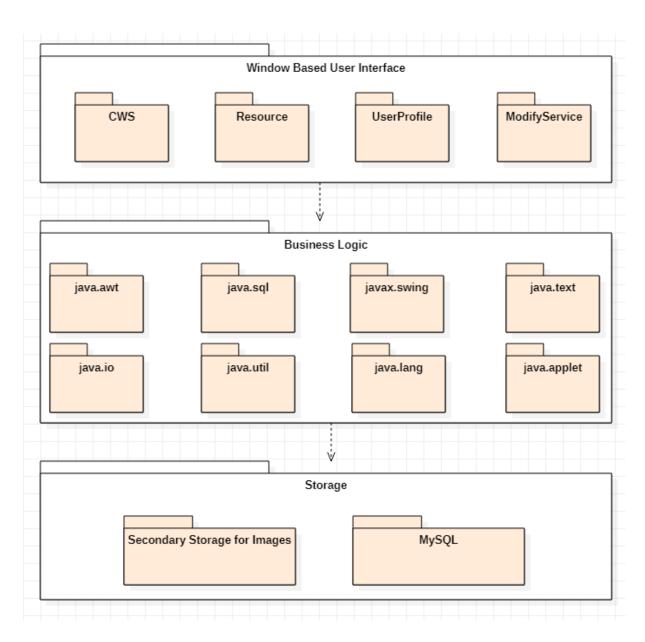


Figure 28: Package diagram

The Package Diagram depicts multi-layered application with windows-based User Interface, Business layer using java libraries. It also shows different packages used internally like util, awt, swing. At the end, storage layer shows MySQL database and secondary storage to store the image files.

12 Deployment Diagram

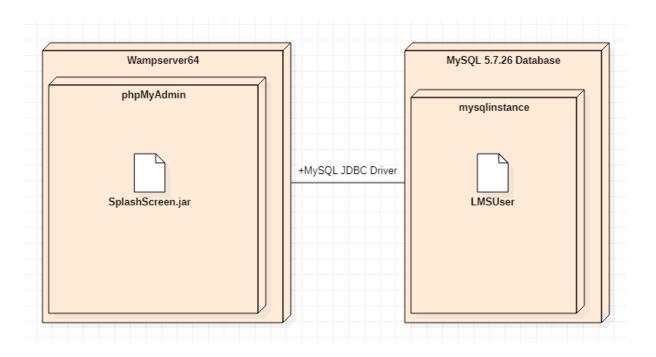


Figure 29: Deployment diagram

Laundry Management System is packaged into jar file SplashScreen.jar and is deployed onto Wampserver64 using phpMyAdmin. Application connects to LMSUSER which is mysql database of laundry management system. Database used is MySQL 5.7.26. Database is connected using MySQL JDBC driver.

13 User Interface

Splash Screen of LMS



Figure 30: Launch Screen

User Login

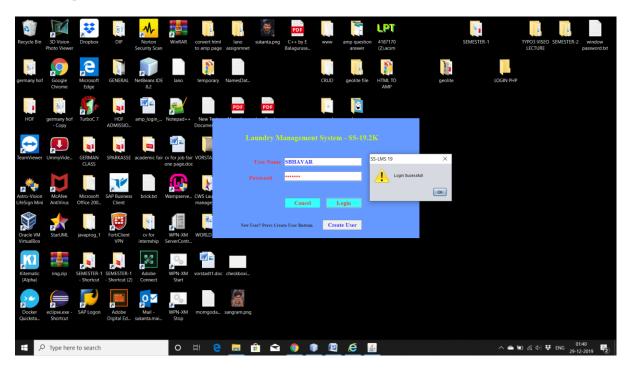


Figure 31: Login Screen

New User Profile Creation

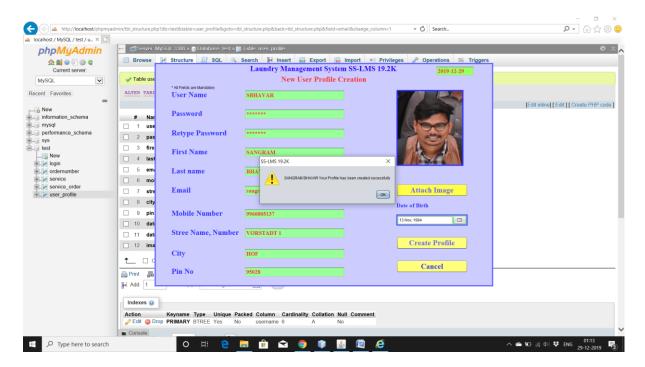


Figure 32: User profile creation

View User Profile

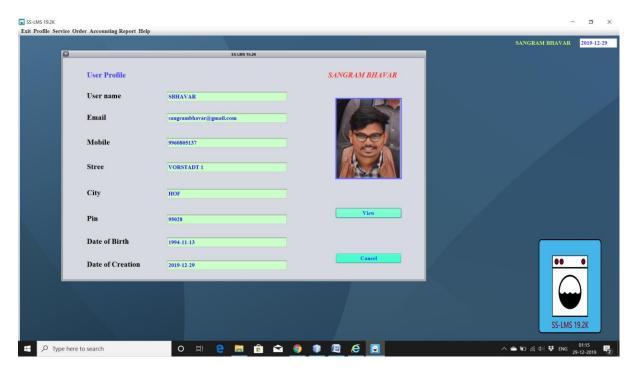


Figure 33: View profile

Modifying User Profile

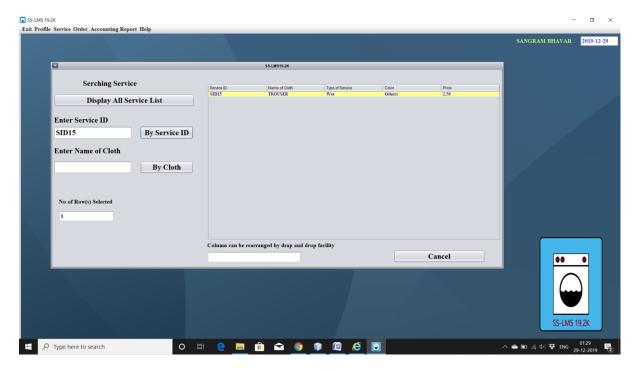


Figure 34: Listing available services

Modify Service

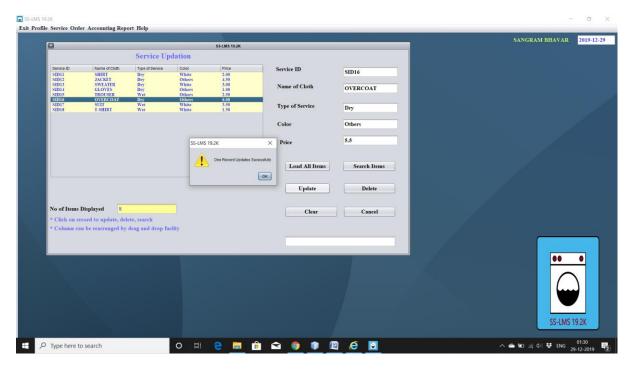


Figure 35: Modifying services

Order details

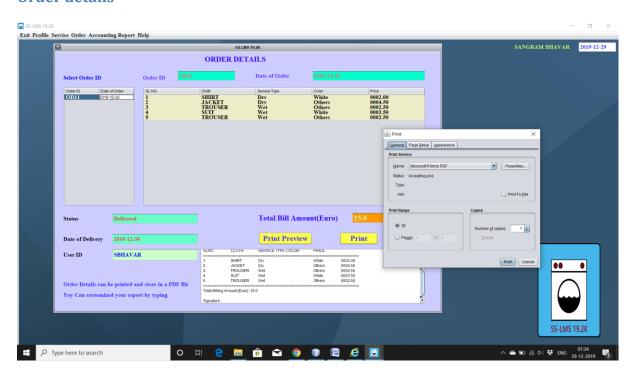


Figure 36: View and print Order details

Daily Report

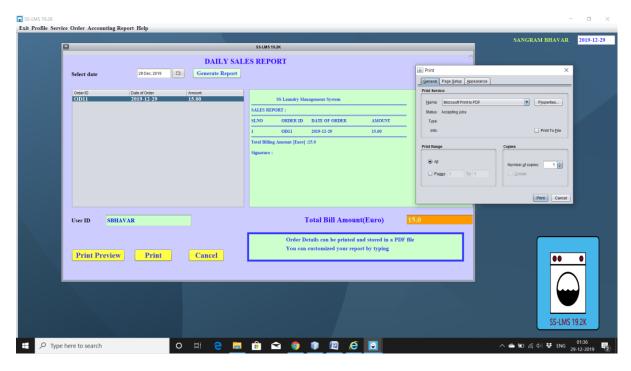


Figure 37: Accounting: Daily report

Monthly report

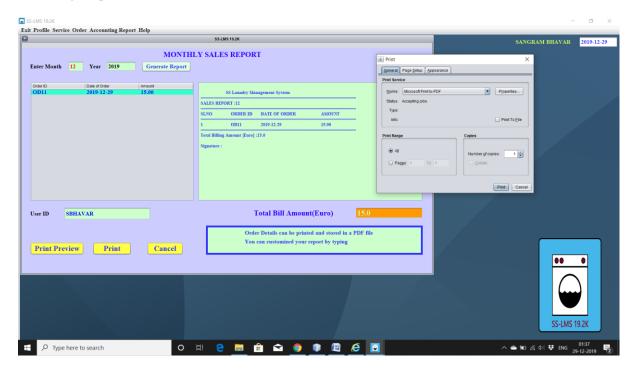


Figure 38: Accounting: Monthly report

Yearly report

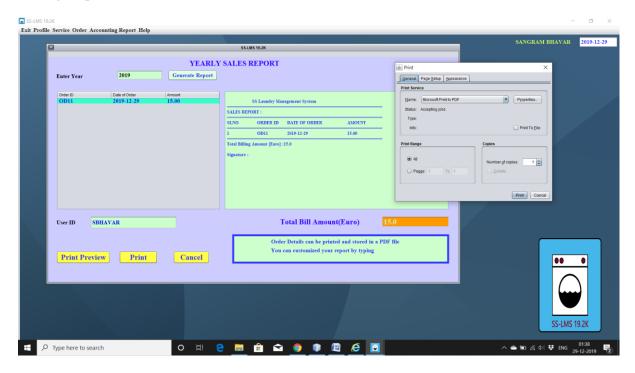


Figure 39: Accounting: Yearly report

Help menu

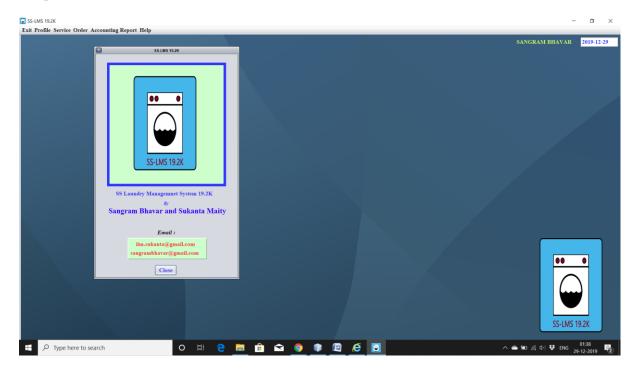


Figure 40: Contact us

About Product

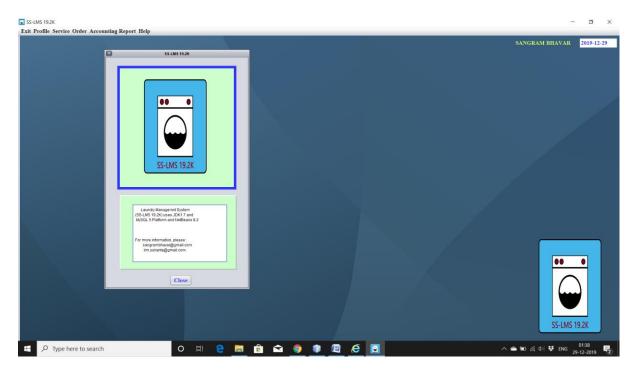


Figure 41: About the product

Multiple Screen at a time

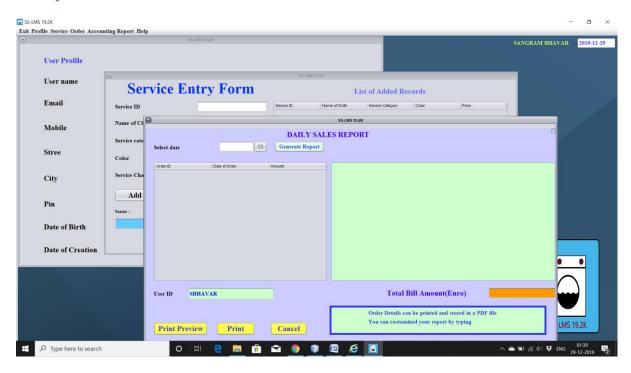


Figure 42: We can open multiple screens at once.

14 Test phase

The test cases are designed based on UI Screens.

Test Case – User Profile Creation

Test Plan ID: 0001

Test Priority: (Low/Med/High): Med

Module Name: NewUserProfileCreationJFrame1

Test Title: New User Profile Creation

Description: Create New user profile to access main program

Pre-conditions: User is a valid user.

Dependencies: none

	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
1.	Launch user Profile Creation				
2.	Provide Username	SBHAVAR			
3.	Provide Password	SBHAVAR			
4.	Retype Password	SBHAVAR			
5.	Provide Email	sangrambhavar @gmail.com			
6.	Provide Contact Number	9960805137			
7.	Provide Date of birth	10-10-1994			
8.	Street Name with Number	VORSTADT 1			
9.	Provide City	Hof			
10.	Provide Pin No	98025			
11.	Add Profile Photo	sangram.png			
12.	Click on "Create Profile"		Get accessing the LMS. Now in your user you can do your operations		

Test Case – Add New Services

Test Plan ID: 0002

Test Priority: (Low/Med/High): Med

Module Name: AddNewServiceNewCreationJFrame1

Test Title: New Service Entry Form

Description: New services are added for usage

Pre-conditions: User is a valid user.

Dependencies: none

	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fa il)
1	Launch Service Entry Form				
2	Provide Service ID	SID11			
3	Provide Name of Cloth	SHIRT			
4	Provide Service Category	Dry			
5	Provide Colour	White			
6	Provide Service Charge	2.0			
7	Click on "Add" Button		added in the table on	List of Services will be added in the table on the right-hand side with Proper headings	

Test Case – Buy Services

Test Plan ID: 0003

Test Priority: (Low/Med/High): Med

Module Name: NewOrderNewCreationJFrame1

Test Title: Buy Service Entry Form

Description: Buy the services form the existing Service Items

Pre-conditions: User is a valid user and Services are stored

Dependencies: Services Availability

	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
1	Launch Order Creation Form				
2	Provide Service ID one More	SID11	Added to the Item list for buying		
3	Provide Order ID	OD11			
4	User ID	SBHAVAR	Automatically Generated		
5	date of Order	2019-12-29	Automatically generated current date		
6	Order of Time	1:32	Automatically generated current system time		
7	Provide Date of Delivery	2019-12-30	Select from Calendar		
8	Select the Status	Not Delivered	Radio Button will be selected		
9	Click on "Buy" Button		Display A message box and display no of Items and Amount to be paid		Pass

Test Case – Buy Services

Test Plan ID: 0004

Test Priority: (Low/Med/High): Med

Module Name: ViewOrderCreationJFrame1

Test Title: View Order Details

Description: View, Print Preview and Print Order Details

Pre-conditions: User is a valid user and Previous Order is required

Dependencies: Existing Order

	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
1	Launch Order Details Form				
2	Select Order ID	OD11	Auto loaded in the form if it exists	Display all Items in this Order	Pass
3	Date of Order	2019-12-29	Auto loaded in the form if it exists	Display date of order	
4	Status	Delivered	Automatically Generated		
5	date of Order	2019-12-29	Automatically generated current date		
6	Order of Time	1:32	Automatically generated current system time		
7	Provide Date of Delivery	2019-12-30	Select from Calendar		
8	User ID	SBHAVAR	Automatically generated current system time	Displayed	
9	Select the Status	Delivered	Automatically generated current system time		
10	Total Bill amount	15.0	Automatically generated current system time		
11	Click on "Print			Report will be	
4.5	Preview "Button	the Report		displayed in text area	
12	Click on "Print" Button	Printer Dialog Box will be appeared	You can print or Create new file to be stored	Show printing status	Pass

15 Source Code

Please find the source code embedded in this file below.

