



TWO WHEELER SERVICE MANAGEMENT

TEAM MEMBERS AND THEIR ROLES:

HARINI V-	TEAM MASTER (DEVELOPMENT TEAM)
HARISH K -	DEVELOPMENT TEAM
HARISH RM -	DEVELOPMENT TEAM
HARSH BANSAL -	SCRUM MASTER, FRONT END
HARSHA NANDHINI K M-	TESTER
HARSHINI D -	DEVELOPMENT TEAM



PROBLEM STATEMENT

- A two-wheeler service shop wants to develop a system to regulate the maintenance of their day-to-day services.
- Every incoming vehicle must be assigned a job card.
- The card should have various details such as registration number, owner details, engine number, type of service needed, and expected delivery date.
- Further information to be filled in the job card varies as per the service type (Ex: maintenance, oil service, brake condition etc.).
- On completing the vehicle service, the job card has to be updated, and the system has to alert the owner automatically.
- The job's priority is fixed based on specific criteria like delivery date, and a service mechanic gets the list of jobs for the day.



OBJECTIVES

- The customer should be able to register himself/herself by giving details about him/her and him/her two-wheeler.
- The customer should be able to book the available services for his/her two-wheeler through my login.
- The customer should be getting alert after his/her booked service is accomplished.
- The shop owner should be able to login through his/her username and password.



OBJECTIVES

- The shop owner should be able to see the details of all the customers , services and workers.
- The shop owner should be having access to assign the works to respective workers.
- The worker should be able to login through his id and password.
- The worker should be able to see the works assigned to him.



Customer-Requirements

- Register
- Login
- Edit his/her profile
- Book a service
- Access the job card
- Avail an alert sms/mail,once service finished



ADMIN -REQUIREMENTS

Admin has the access to

- View the entire details of customer
- The pending services
- The details of services (both finished and pending)
- The details of workers
- Assign the services to respective workers



SYSTEM DESIGN

DATA STRUCTURES:

- LINKED LIST FOR STORING THE CUSTOMERS
- LINKED LIST FOR STORING THE WORKERS
- LINKED LIST FOR STORING THE TOTAL SERVICES
- LINKED QUEUE FOR STORING THE PENDING SERVICES

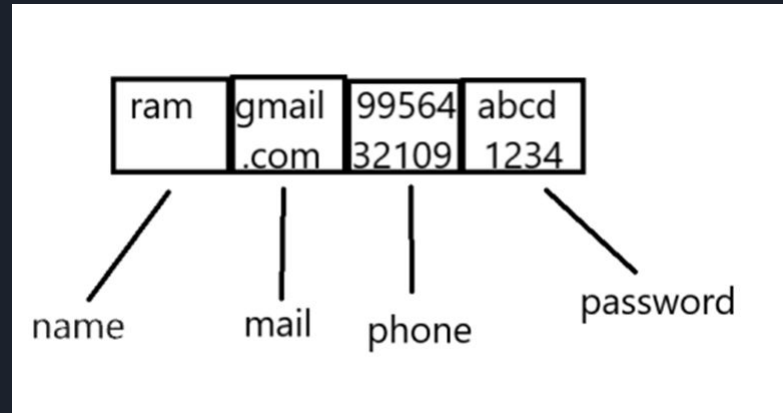
CLASSES:

- ADMIN
- CUSTOMER
- WORKER
- SERVICE

Customer class

This class deals with the customer attributes namely

- Name
- Mail
- Phone
- Password



Class attributes



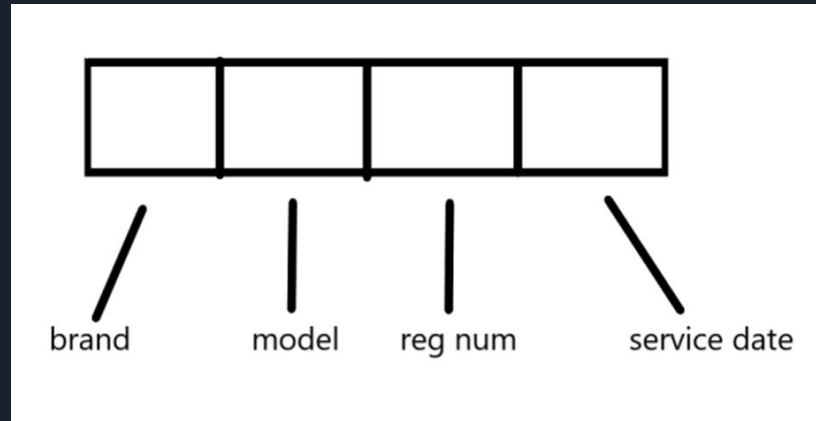
Methods of Customer class:

- Change name
 - Change mail
 - Change pwd
 - Change phone
 - Get_customer_details
 - Get_login_credentials
- Edit Profile

Service class

This class deals with the customer's vehicle information namely

- Brand
- Model
- Reg Number
- Date of service



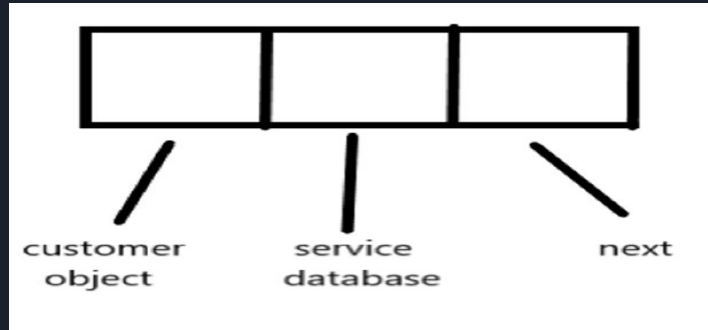
Class attributes



Methods of Service class:

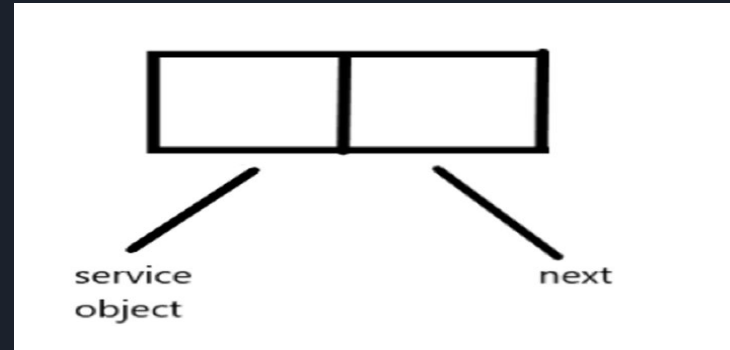
- Assign_worker
- Servicetype
- Add_service
- Get_return_date
- Price_details
- Get_service_details

This data structure class consist of two light weight elements(nodes).

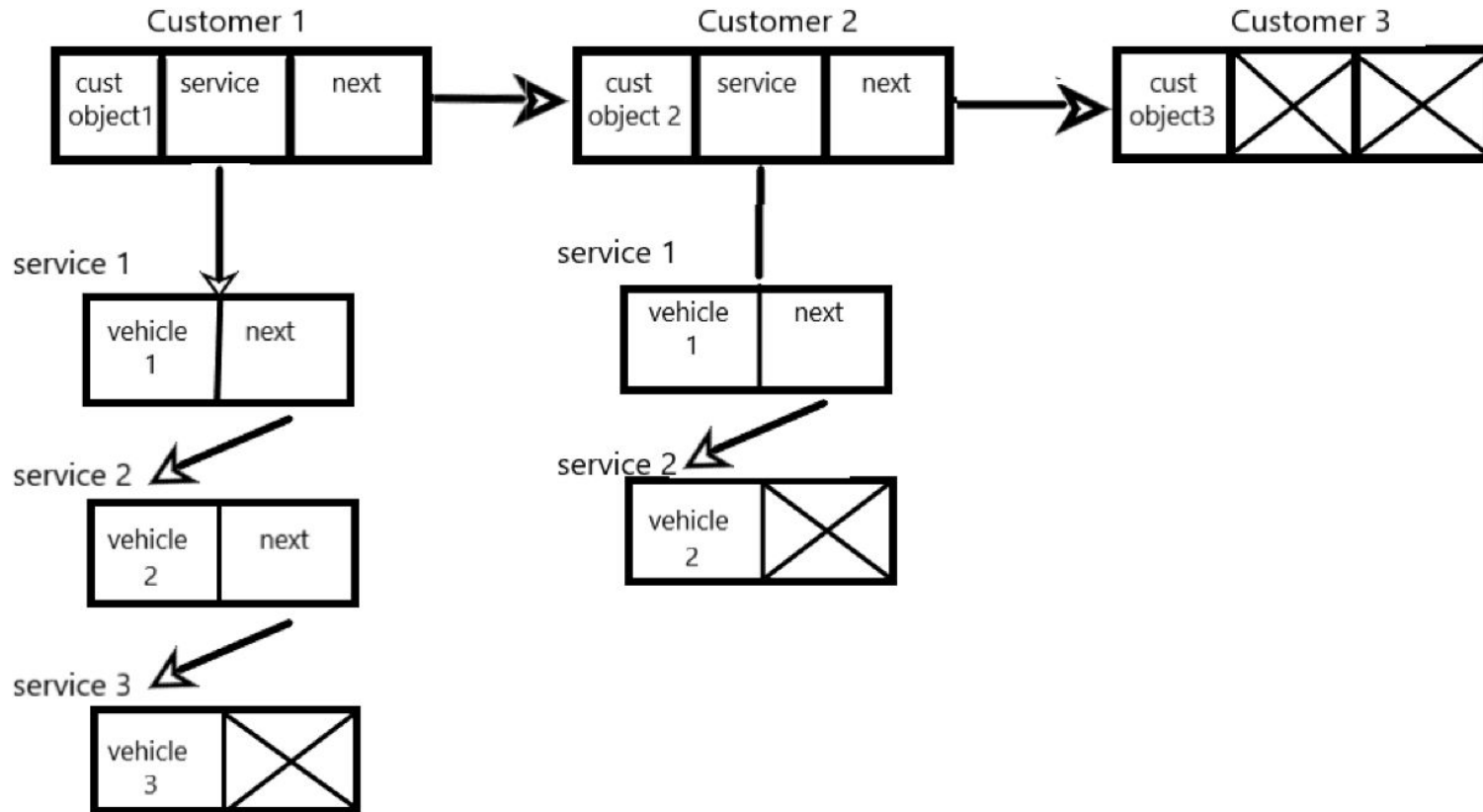


Customer_node

Service_node



Data-Structure Diagram



Customer
Node

Service
node



ADMIN CLASS

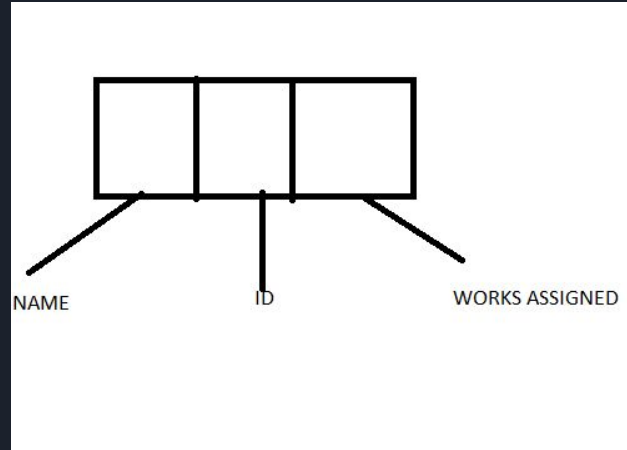
METHODS:

- ADD REPAIR BIKE
- REMOVE FINISHED SERVICE
- VIEW SERVICE DETAILS
- VIEW CUSTOMER DETAILS
- GENERATE REPORTS
- SEND EMAIL NOTIFICATIONS
- ASSIGN WORKS

WORKER CLASS

FIELDS:

- NAME
- ID
- WORKS ASSIGNED





METHODS OF WORKER CLASS

1. ADD SERVICE
2. REMOVE SERVICE

THE DATA OF WORKERS ARE STORED IN LINKED LIST STRUCTURE.

THE SERVICES ARE IN LINKED QUEUE STRUCTURE .

EACH WORKER HAS A SPECIFIC USERNAME AND ID .

JIRA SCREENSHOTS

Projects / Two wheeler service management

Backlog



Epic ▾

Versions ▾

Insights

▼ TWSM Sprint 1 8 Aug – 22 Aug (6 issues)

0 0 0

Complete sprint



customer edit profile to be finished various service options to be displayed and vehicle requirements should be stpred

✓ TWSM-6 Do the admin part

IN PROGRESS ▾



✓ TWSM-7 Do the worker part

IN PROGRESS ▾



✓ TWSM-8 Do the customer part

IN PROGRESS ▾



✓ TWSM-9 Do the notification part

IN PROGRESS ▾



✓ TWSM-10 Do the interface design

IN PROGRESS ▾



✓ TWSM-11 Do the user interface

IN PROGRESS ▾



+ Create issue



	Two wheeler service management.pdf	presentation	7 days ago
	admin.jpg	Harsh Bansal	14 days ago
	admin.py	Harini V	2 days ago
	button_3.png	Harsh Bansal	14 days ago
	cust.py	Harish K	14 days ago
	custclass.py	Harish RM	5 hours ago
	custframe.py	Harish K	12 days ago
	custom.py	Harsh Bansal	14 days ago
	data.json	HARISH RM	yesterday
	database.py	HARISH RM	7 days ago
	emalert.py	Add files via upload	23 hours ago
	imagetwo.jpg	Harsh Bansal	14 days ago
	llproj.py	harshini	2 days ago
	logo.jpg	Harsh Bansal	14 days ago
	lqproj.py	harshini	14 days ago
	messagebox.py	Add files via upload	7 days ago
	revcustframe.py	Add files via upload	7 days ago
	serviceclass.py	HARISH RM	7 days ago
	tkcust.py	Harini V	yesterday
	tkinter (1)	Harini V	15 days ago
	user_story.text	Harini V	14 days ago
	vsms.py	Harish RM	5 hours ago
	workerclass.py	harshini	15 days ago



FRONT PAGE

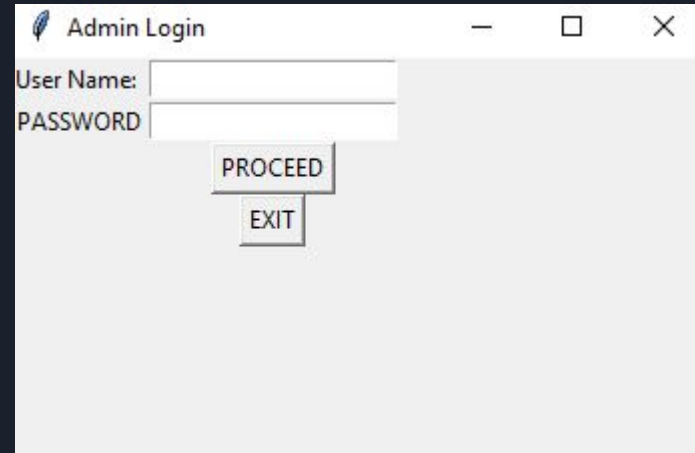
The front page directs for the three interfaces.

1. Admin
2. Customer
3. Worker



ADMIN LOGIN PAGE

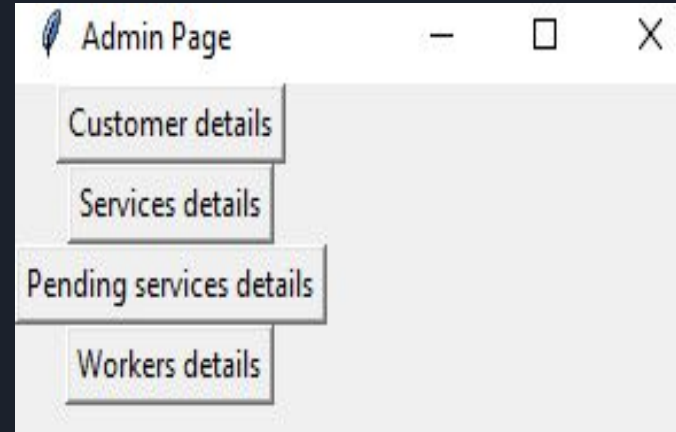
- This is the page where the admin has to login using appropriate Username and password.
- It will show the exception if we enter any invalid username or password.



A screenshot of a web application window titled "Admin Login". The window has a standard title bar with minimize, maximize, and close buttons. Inside the window, there are two input fields: "User Name:" and "PASSWORD". Below these fields are two buttons: "PROCEED" and "EXIT".

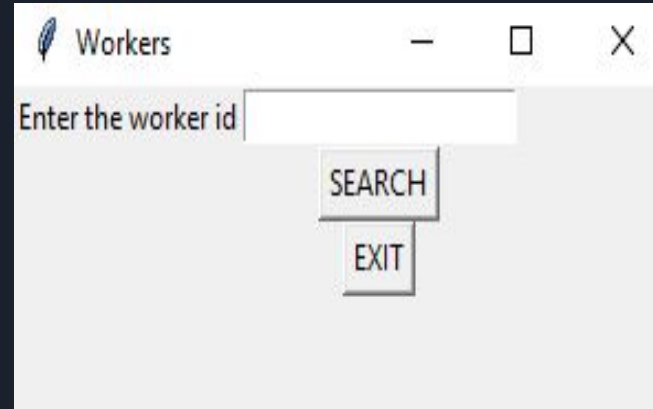
ADMIN ACCESS PAGE

- This is the window that will be created after successful login of admin.
- By these options, the admin can have access to various details.



ADMIN'S ACCESS TO WORKERS

- This page will be created if Admin wants to see details of workers.
- The admin can simply enter the id of worker and get the details of particular worker.

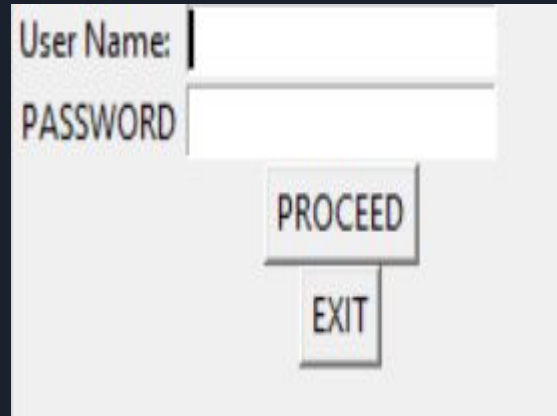


The screenshot shows a window titled 'Workers' with standard window controls (minimize, maximize, close). Inside the window, there is a text input field with the placeholder text 'Enter the worker id'. Below the input field, there are two buttons: 'SEARCH' and 'EXIT', stacked vertically.



WORKER CLASS:

WORKER LOGIN PAGE :



User Name:

PASSWORD

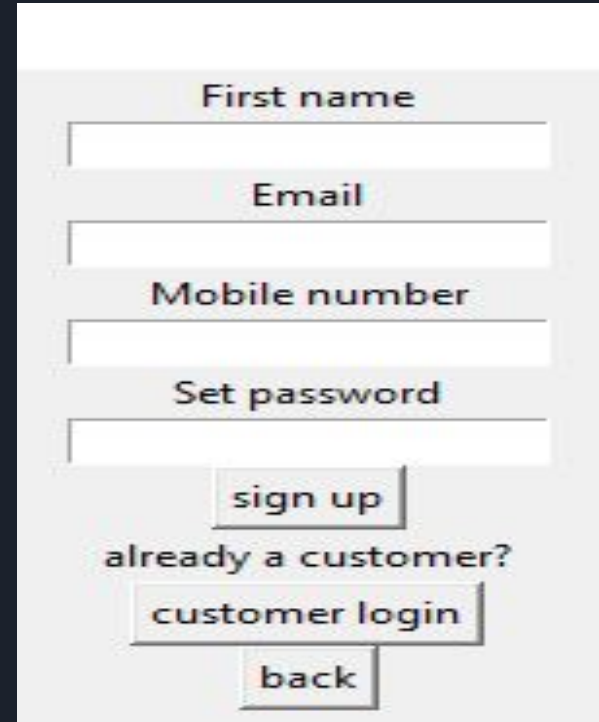
PROCEED

EXIT



CUSTOMER-PAGE 1:

.This is second page where the customer has to enter their first name, last name, email, mobile number , and will be able to set their password. After that they will be able to sign up



First name

Email

Mobile number

Set password

sign up

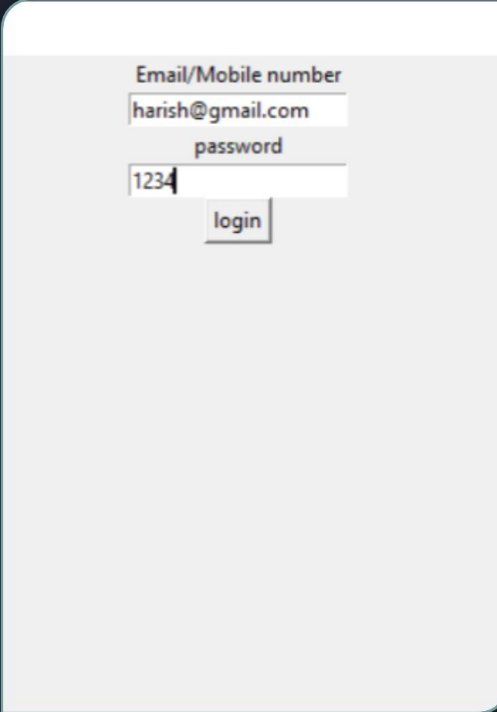
already a customer?

customer login

back

PAGE 2:

- If the customer already has a account they can login into their account by entering their email/mobile number and their password



A login form mockup with a light gray background and rounded corners. It features two input fields: the first is labeled "Email/Mobile number" and contains the text "harish@gmail.com"; the second is labeled "password" and contains the text "1234". Below the password field is a "login" button.

Email/Mobile number
harish@gmail.com
password
1234
login

PAGE 3:

- This is the third page where the customer has to enter the vehicle details like , vehicle brand and model , reg.no.
- The customer will be able to select the services they want.

welcome Harish enter your vehicle details and pick the services you want

Vehicle Brand and Model

Vehicle Reg no.

☒ general service

☒ oil service

☒ break system maintainance

☒ engine maintainance

☒ oil service



PAGE 4:

- After clicking submit the customer will be redirected to this page where they can able to see the services they selected

The services are genaral services, oil service, break system maintainance, engine maintainance, oil service



CONCLUSION

- We have created an interface for the user to sign up with the details and login with the phone number and password.
- The user can edit the profiles.
- We have created an interface for admin to view the entire details.
- We have created another interface for worker to log in and see the works assigned to him.



FUTURE WORKS

The works yet to be completed are

- To create a strong user interface
- To connect the services booked



THANKYOU