

A decorative graphic on the left side of the slide consisting of two overlapping parallelograms. The front one is blue and the back one is a light greenish-blue. They are positioned diagonally, with the blue one in front of the green one.

TWO WHEELER SERVICE MANAGEMENT



TEAM MEMBERS AND 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.



Customer can

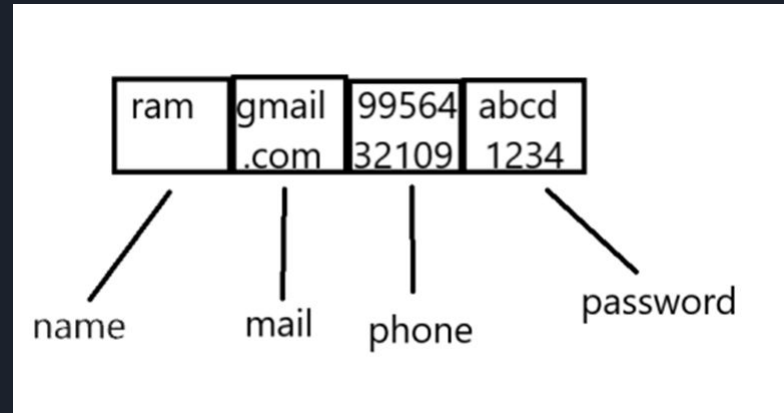
- Register
- Login
- Edit his/her profile
- Book a service
- Access the job card
- Avail an alert sms/mail,once service finished

Classes and ADTs used

Customer class:

This class deals with the customer attributes namely

- Name
- Mail
- Phone
- Password



Class attributes



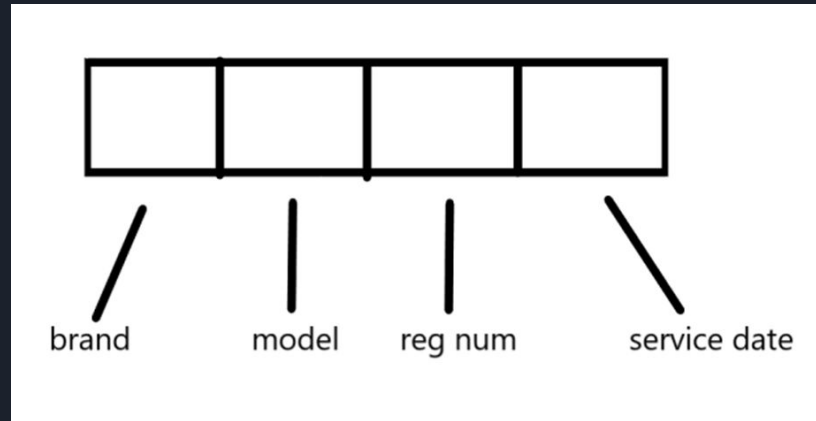
Methods of Customer class:

- 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



Database

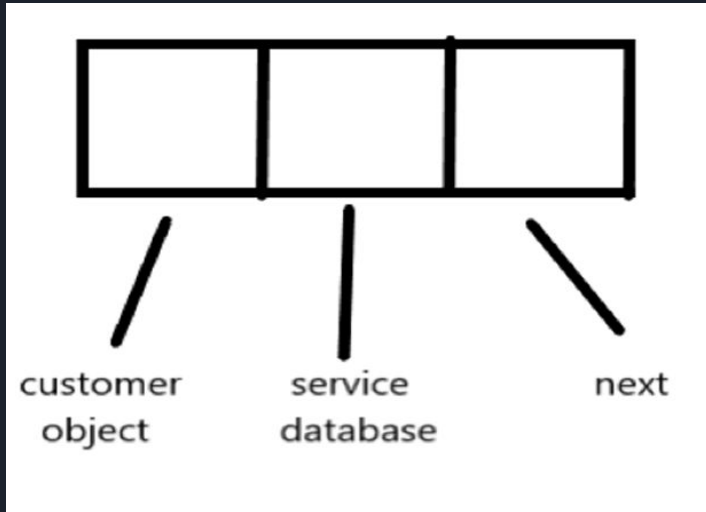
Storing Customer and Service details



A **database** structure ,for storing the customers' data and their respective service details is created similar to and implemented using **Linked List Abstract Data Type(ADT)**.

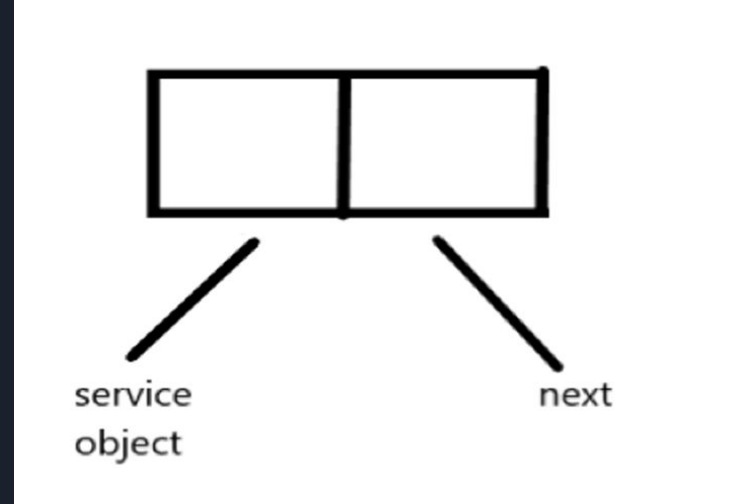
This database class consist of two light weight elements(nodes).

- 1.customer_node
- 2.service_node

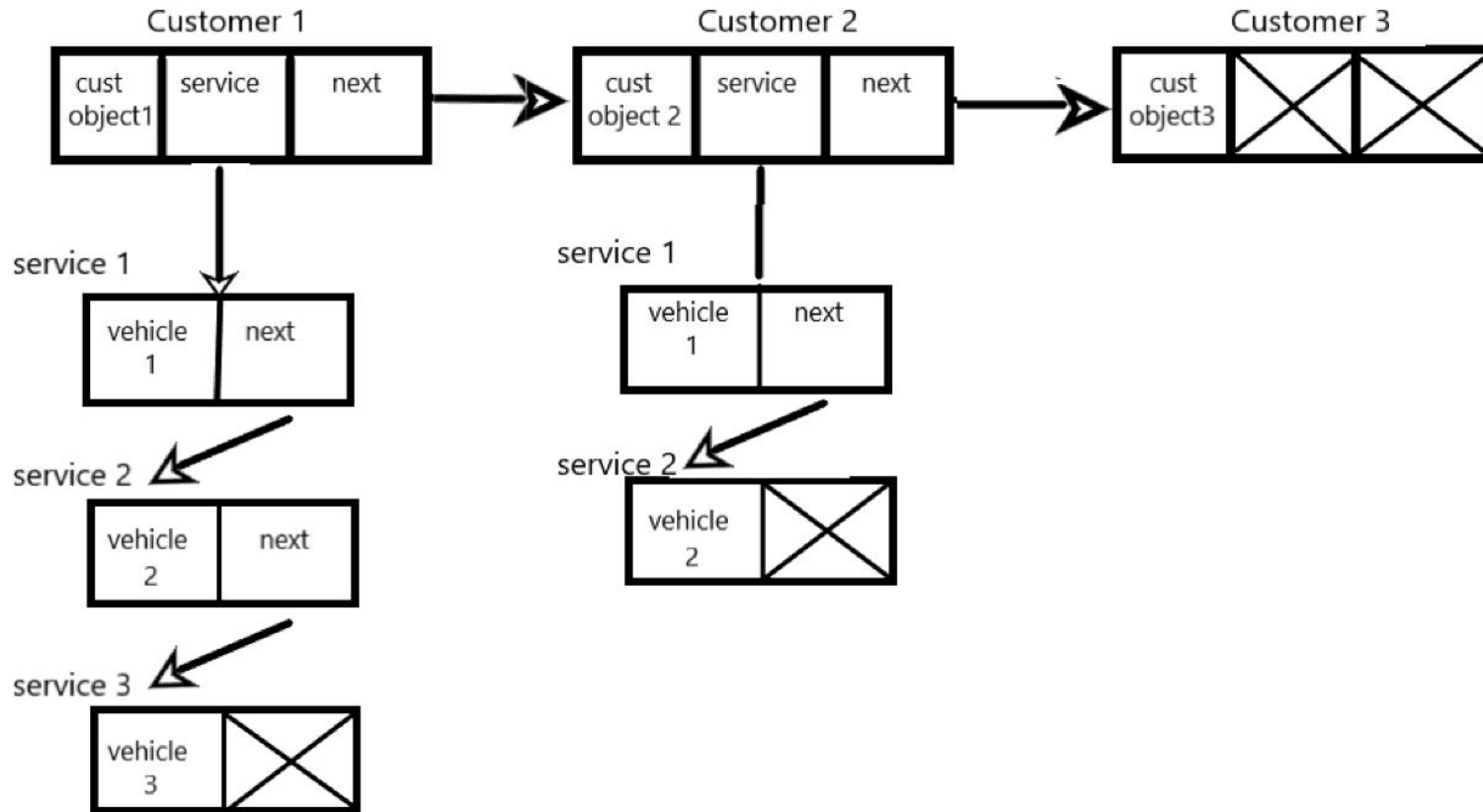


Customer_node

Service_node



Database-Structure Diagram



Customer Node

Service node



ADMIN CLASS

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



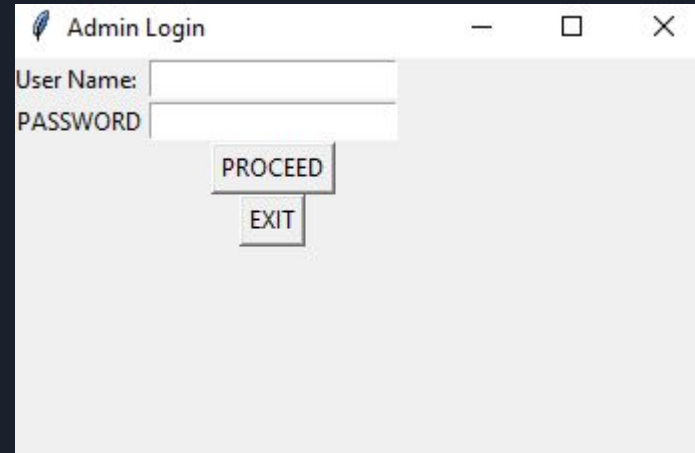
ADMIN CLASS

METHODS:

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

ADMIN LOGIN PAGE

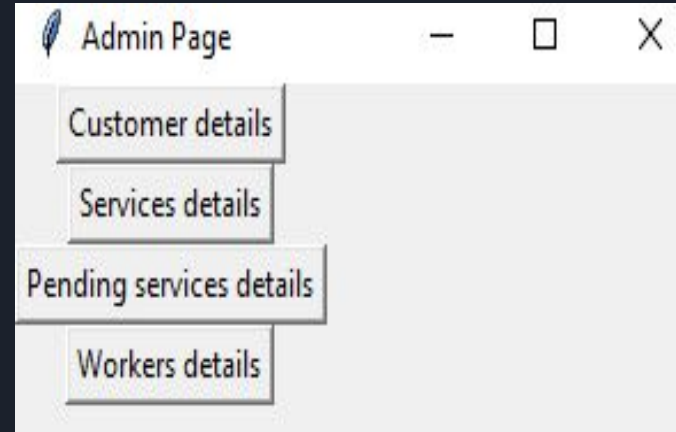
- This is the page where the admin has to login using appropriate Username and password.
- It will show the exception if we enter any invalid username or password.



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 the input fields, there are two buttons: "PROCEED" and "EXIT".

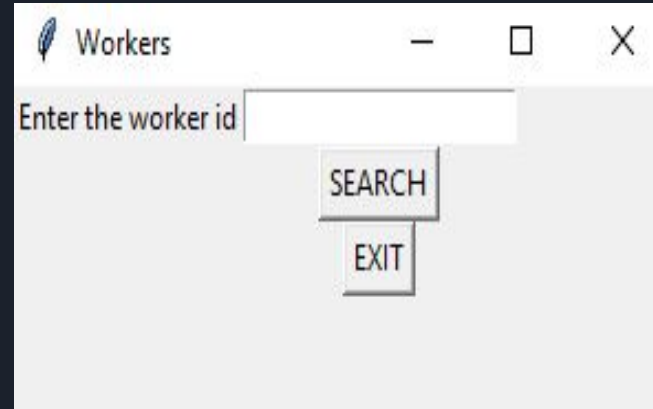
ADMIN ACCESS PAGE

- 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.



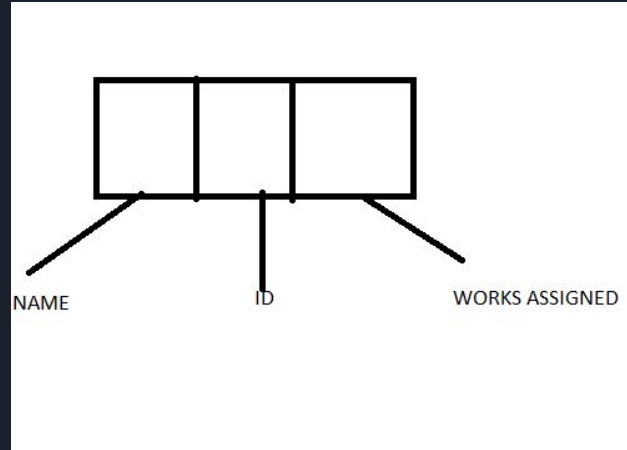
ADMIN TO DO

- The admin has to store the collection of customers added to the data as a linked list structure.
- The admin has to enqueue the services newly booked to the worker's linked queue of services to be done.
- The admin has to add the newly booked services to the list of entire services.

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.

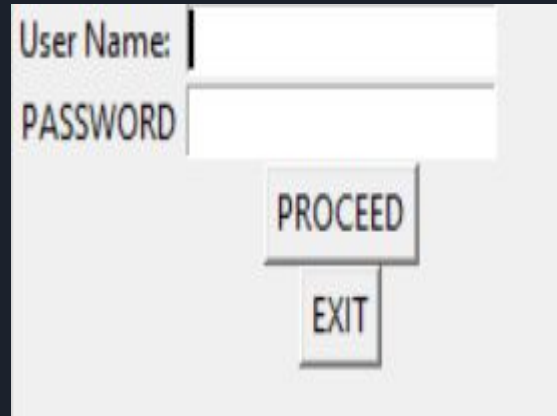
THE SERVICES ARE IN LINKED QUEUE STRUCTURE .

EACH WORKER HAS A SPECIFIC USERNAME AND ID .



WORKER CLASS:

WORKER LOGIN PAGE :



A screenshot of a worker login page. It features two input fields: 'User Name:' and 'PASSWORD'. Below the 'PASSWORD' field are two buttons: 'PROCEED' and 'EXIT'.

User Name:	<input type="text"/>
PASSWORD	<input type="password"/>
<input type="button" value="PROCEED"/>	
<input type="button" value="EXIT"/>	



WORKER CLASS

After login in workers will be able to see their assigned services .

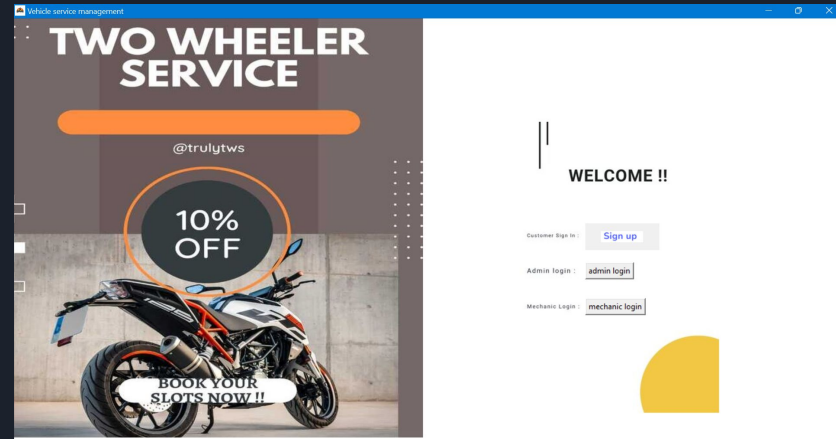
Services are assigned to each worker based on first in first out condition.

Date of completion of their work will be given.

After the date of completion ,the services will be dequeued from queue of works.

CUSTOMER LOGIN: PAGE 1:

- This is the first page which has the buttons customer sign in for customer to login to their account.
- There is a button admin login in which the admin can login in and manage the tasks
- There is a button mechanic login in which the mechanic can login and see the tasks assigned to them



PAGE 2:

.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
Harish

Last name
K

Email
harish@gmail.com

Mobile number
123456789

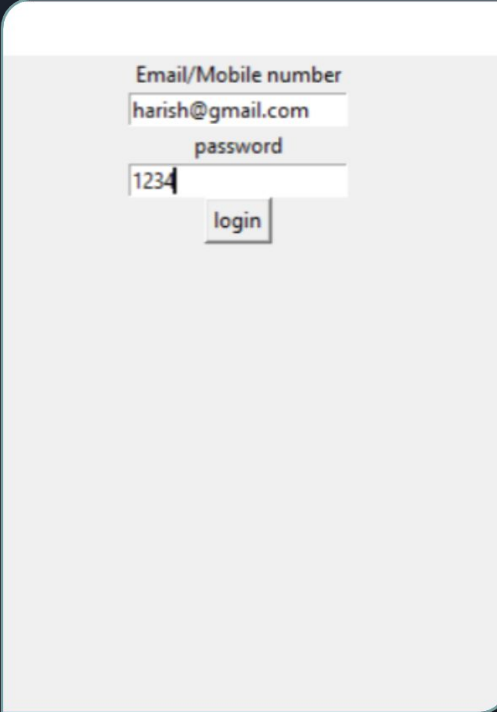
Set password
1234

sign up

already a customer?
customer login

PAGE 3:

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

A mockup of a login form on a light gray background. 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 these fields is a "login" button.

Email/Mobile number

harish@gmail.com

password

1234

login

PAGE 4:

- 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 5:

- 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



THANKYOU