

Transport Company Computerized Software Presentation

W E C O M E

Presenting the TelePort Software......







Team Members.

Hardik Soni

20CS30023

Kushaz Sehgal

20CS30030

Shivam Raj

20CS10056





Presenting...

Teleport......

Teleport provides an interactive and user-friendly process to manage, process and deliver consignments from a Sender to Customer within all our branch offices in India.



Table of Contents.

01 The Problem Definition

Let's talk in brief about the Problem Description

04 Challenging Use Case

After that we will talk about this.

02 Significance of our Project

05 Some Improvements we thought of

We will also talk about this.

03 Challenges we Faced

Then, we will talk about this.

06 Live Demo of the Software

And we will talk about this last.





The Problem Definition



Teleport provides an interactive and Customer-Friendly to Manage Delivery of all Requested Consignments. The Login Can be Done: - Employee, Customer and Manager.

Manager

The Manager is able to see the status of any truck. He can view the average waiting time period of any truck in-transit or idle. He will be responsible for adding a new truck if the average waiting time of consignments become high.

Employee

The Employee of a Branch can view the statistics as intended for the Manager for his Branch and the Status of Trucks for his Branch. He also can query Consignments placed through his/her branch.

Customer

The Customer can view all his Consignments placed till date, also he will be able to generate a bill. He can also Register Himself. He

TCCS

TCCS provides a very Interactive and easy way to manage all consignments, process them, and help in delivering them effectively.



Languages and Resources Used!



01	Python	 Python was simple to learn and easy to write. Implementation of OOP's concepts are pretty convenient and helped in quick development of Software
02	Flask	 We chose Flask as it has a in-built development server It also supports a fast-debugger to help us fix the bugs quickly
03	WTForms	 WTForms supports a Flexible Form Validation It also supports Data Validation for Login
04	flask_login	 Flask-Login provides user session management for Flask Store the active user's ID in the session, and let you log them in and out easily.
05	HTML, CSS, JS Bootstrap	 HTML helps us design the basic structure behind the Webpage CSS helped us beautify the website. Bootstrap is a potent front-end framework used to create modern websites and web apps. It's open-source and free to use







Significance of Our Project.....

User-friendly and easy-to-use User Interface

The Web-Application provides a User-Friendly Experience to the User.

Easy management of cargo and employees by managers

The Software's Database gets updated accordingly in real-time using WTForms and SQLAlchemy

All staff details, Consignment details, transactions, and costs are stored in the database

All the details of Manager, Customer, Employee, Transaction or Truck is Stored in the Database, and can be retrieved if needed.

Easily access all transactions for a particular customer.

The Customer and the Manager can view the Previous Transactions of the Customer.

Easy access to invoices, customer-centric.





Challenges we Faced



- ☐ Interlinking of Webpages for Smooth functioning of the Website.
- ☐ Making the Web Application Responsive, i.e, how to website will behave if we changed the width and height of the window.
- Considering all the Error-Handling Cases.
- Learning SQLAlchemy and understanding it's management of Database.
- Making an Aesthetic GUI fit for the Software.
- Creating Miscellaneous test cases for Test Suite.
- Constantly Needed Changes in Requirements of Project during development
- ☐ Inculcating Database information and python functionalities in HTML web pages was a tough task.







Future Improvements..:-

- → Displaying the Information and Statistics of the Bill/Transaction in a more detailed graphical Fashion, using Line Graphs, Pie Chart, Histogram etc.
- → Improving the User-Interface of web application Teleport.
- → Facility of Online Payments for Ordering Consignments.
- → Employees can update their profiles details on their own.
- → Host the database through AWS
- → Add an API to connect to Mobile by Scanning a Bar-Code.
- → Create Server roles in MySQL
- → Matching Branch ID's with ZipCodes.
- → Additional bug fixes and improvements.





Challenging Use Case



- ☐ If the truck is not Present in the branch initially when the consignment order is placed but added afterwards the consignments should still be delivered.
- ☐ Displaying the relevant charts for the Consignments and branches as asked in Problem Statement.





Timeline...

Week 1

Week 2

Week 3

Week 4

Week 5

Started creating Front-end in HTML, CSS bootstrap Started back-end work in Python Flask Linked the back-end to front-end

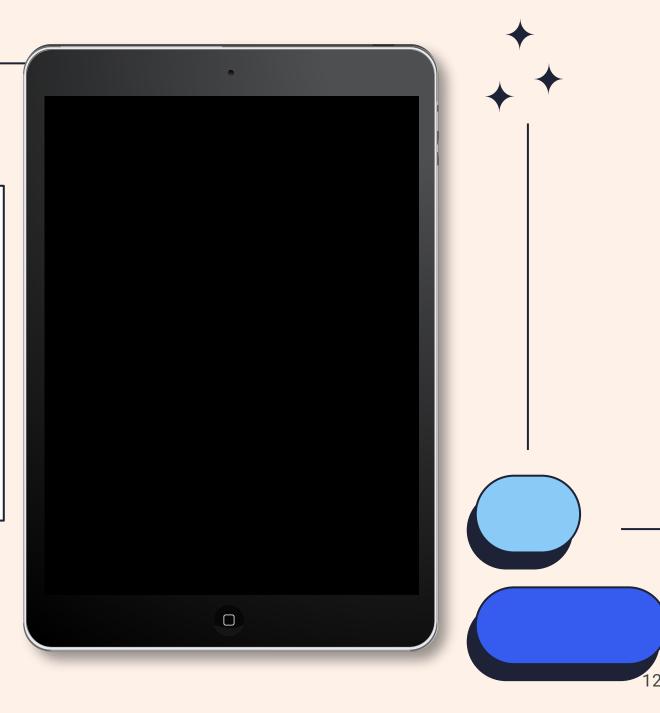
Testing the Code
with the Given
Test Cases for
preparing Test
Cases and
Testing the
Software with
the Test Suite.

Worked on the
Presentation of
the working
Software. Finding
Bug Fixes and
Brainstorming
about the
Possible
Improvements of
Code.



Presenting a website?

Presenting our website, Let's delve deeper into its functioning.





Thank you!

Do you have any questions?

