LOVELY PROFESSIONAL UNIVERSITY

PYTHON(INT-213) PROJECT PRE-SUBMISSION REPORT

Project No.10, Design a Courier Management System for LPU using python.

Submitted by

- Patel Krish (RK21RTA10)
- Hiya Jain (RK21RTA35)
- Guruju Yaswanth Kumar (RK21RTB58)

INTRODUCTION

- The project uses Python to use GUI-based Courier Management System (C.M.S.).
- A user can track his/her packages or couriers that are delivered to a specific destination.
- GUI stands for Graphic User Interface and provides a Visual Link between the Python code and the user, making it easier for the user to enter his/her data even if they have no prior knowledge of coding.
- Python provides various options for developing graphical user interfaces (GUIs). The most important of these is “Tkinter” and we will be using it Primarily to build this Project.

A courier management system, or CMS, is business software that simplifies courier management and routing. A CMS streamlines all of the following tasks:

- Planning and optimizing delivery routes
- Courier tracking and scheduling
- Analysing courier performance
- Package tracking during delivery service
- Updating customers

Manual planning and routing are time-consuming processes. It’s hard to isolate the optimal route across cities with thousands of different roads. It’s nearly impossible to do this well when you need to calculate hundreds or thousands of stops. This is known as the traveling salesman problem, and it’s what courier management systems set out to solve.

we set out not only to solve the traveling salesman problem but to give businesses of all sizes access to advanced tools—features you can use to not only plan routes but also plan five weeks. Not only update your customers but also give them a live tracking link, so they can see where their courier is in real-time.

Project No: 10	Student Details

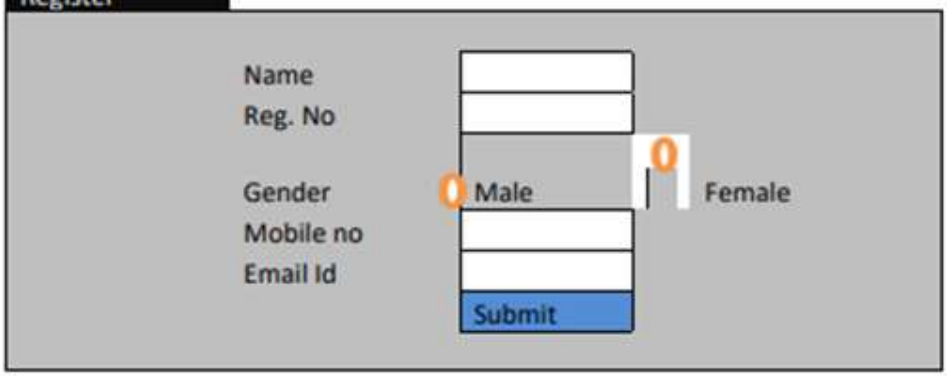
Project Title: Design a Courier Management System for LPU using python.

Project Description:

The minimum requirement of GUI as follows:

CMS

Register



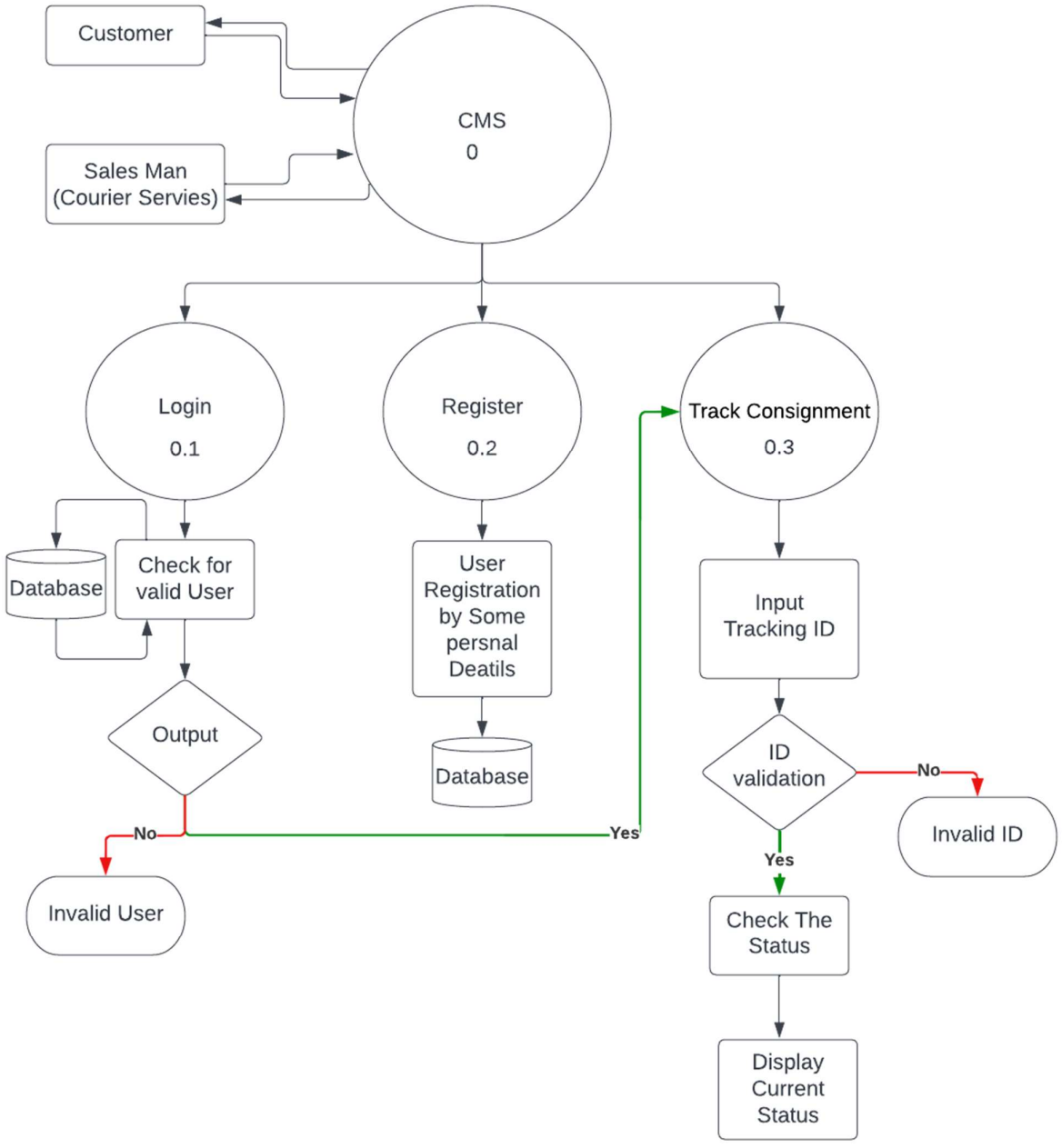
Login Page

Track Consignment

DFD (Flow of Execution of the Project)

As per the Project Requirement, We have the following main Process in the System

- Login Page from where the user can log in by providing his/her private credentials.
- Registration Page here a new user needs to register himself/herself into the system before using the CMS.
- Tracking Consignment Page here a valid user can access his/her package tracking about its location by providing a tracking Id



Roles and Responsibilities

- **Patel Krish**: - Resource gathering, Designing Track Consignment, Debugging, Unit testing, Functional Dependency, and Management.
- **Hiya Jain**: - Designing Register Page and Login Page, Debugging, Unit testing, Integration Testing of the project (Linking of all the pages).
- **Guruju Yaswanth Kumar**: - Implementing GUI, and system testing Design (Lpu's) UMS view for the CMS..

Bibliography

Websites Referred:

- Geeks For Geeks (Understanding the concept of GUI in Python and File Handling in Python)
- Python.org (Various Kind of new Python Libraries)

Timelines

Task Name	Week1		Week2		Week3		Week4		Week7		Week8	
Planning												
Research (Understanding New Concepts)												
Designing												
Implementation												
Improving												

Work Starts on 4th October and ends on 13th November.