ADVANCED PROGRAMMING IN PYTHON

Train Management System

Group 11

About Us

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1. INTRODUCTION

1. INTRODUCTION

- 1.1. About Train Management System
- 1.2. The Importance of Train Management System
- 1.3. How The Train Management System Works

1.1. About Train Management System

Nowadays, train is one of the most important transportations all around the worlds. Therefore, the need of making a logical, easy-to-control system for all activities related to the railway is fundamental across the countries.

Train Management System (TMS) is a **system** implemented for integrated **management** and monitoring of suburban **train** movements and signalling, as well as planning **train** routes and diversions.



1.2. The Importance of Train Management System

In the real situation, the Train Management System can help administrators and clients in:

- Keeping every information related up-to-date
- 2. Editing details about train aspects **timely**
- Making a **logical system** for better management



1.3. How The Train Management System Works

- 1. Scope: Vietnam Railway
- 2. Requirements:
- The Administrators: search/check, change and update train-related information (schedule, station, etc.)
- **The Clients:** Check information about trains according to own needs, buy tickets as well as check tickets.

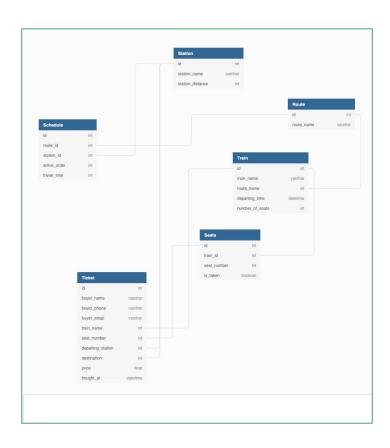


2. STRUCTURE

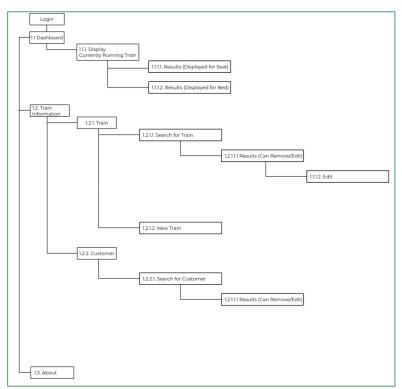
2. STRUCTURE

- 2.1. Database
- 2.2. UI Structure
- 2.3. Python Modules, Classes, Input and Output

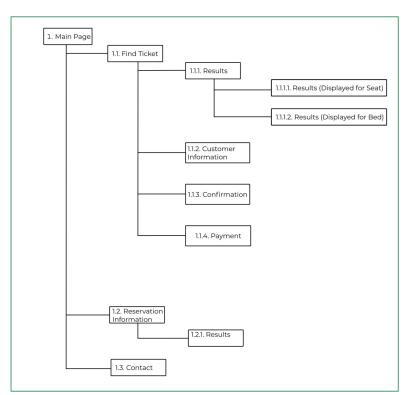
2.1. Database



2.2. UI Structure



Admin UI Structure



Clients UI Structure

2.3. How We Create

- For UI:
- + Use Figma to present UI
- + Use Tkinter to code in Python
- For Database:
- + Use Django for storing TMS Database

3. DEMO

4. CONCLUSION

4. CONCLUSION

- Finished:
- Successfully create database and UI
- Some Improvements:
- More logical and nicer UI
- + Some functions not working: create ticket, etc.
- + More effort on creating better functions for Administrators as well as Clients.