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Railway reservation system

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# Problem Analysis:

## Overview of the project:

Railway reservation system is mainly used to book train tickets with an ease. It also tracks the waiting list feature and also has the record of previously booked tickets

There are two users namely

* Customer who are the end users to book their tickets
* Admin’s who can add/modify/cancel trains

**Why computerized?**

Previously train tickets have to booked only at the reservation centers.

Demerits of reservation centers;

* Long queues to book tickets
* No choice of seats
* Employees have to work hard to satisfy all customers
* Human errors

By computerizing we can overcome the above-mentioned problem by proposing “RAILWAY RESERVATION SYSTEM”

The reservation system has all the salient features such as booking tickets, viewing pre-booked tickets, cancelling tickets, dashboard etc,.

This system helps in eradicating the manual ticket booking at the reservation centers. The dashboard is the most innovative feature in this “RAILWAY RESERVATION SYSTEM”

## Identification of project scope;

* User friendly interface
* It is easy to book and cancel tickets

**Task involved:**

* User must be careful with the dates that he wishes to travel on.
* Admin must take care when modifying train details as it can alter all the users tickets
* Feasibility study
* Implementation of security system
* Database management system
* Password and login management system

## Objectives

Easy access:

* It is very easy to access
* It has no complexity

Mail alerts:

* On successful Booking/cancellation mail will be sent to the registered Email

Dashboard

* It has all the tickets history of the user

Waiting list

* If the tickets to a particular train is completely filled up, the tickets will be stacked upon in the waiting list queue. And then it will be allotted when any other user wishes to cancel his/her ticket

Seat selection

* The user can select his/her seats based upon his/her own wish according to the “class” they select

## Infrastructure

The list below will highlight all software and technologies used in order to create the project

* Python 3.7 - Development Environment used to write and debug code
* OpenPyXL - To handle data storage
* Argo UML/Star UML/ UML Graph/ Top cased-used to model our desired architecture for the project.