



KLE Technological
University

Creating Value
Leveraging Knowledge

Java Programming Course Project

[19ECSP301]

on

Courier Service System

Team 9

Submitted by

Name	USN
Gagandeep Ramgiri	01FE19BCS423
Shahid Afrid H	01FE19BCS431

Course Teacher Signature

(Ms. Madhura Shettar)

SoCSE Label

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

HUBLI- 580031

ACADEMIC YEAR 2020-2021

Problem Statement

The courier service system has been developed to override the problems prevailing in the practicing manual system. This application is supported to eliminate and in some cases reduce the hardships faced by this existing system. Moreover this application is designed for the particular needs of the user to carry out operations in a smooth and effective manner. The application is reduced has much as possible to avoid errors while entering the data. In traditional process people visit these courier delivery stores with their packed parcels. After giving the pick-up and delivery address to the courier vendor, we get a paper slip. But in this problem user book delivery of parcel by providing pick-up and drop address facilities through mobile app. Using traditional process parcel delivery gets delayed, but using nowadays technologies we can reduce the travel time.

Objectives

- The main objective of the courier service system is to manage the details of courier and user details like pickup and delivery address.
- Checking the status of the parcel.
- To reduce manual work of traditional courier services by replacing it with an application where user can book a delivery from any place.

Classes

- User
- Registration
- Pickup
- Delivery
- Courier
- Package
- Dashboard

Design Patterns

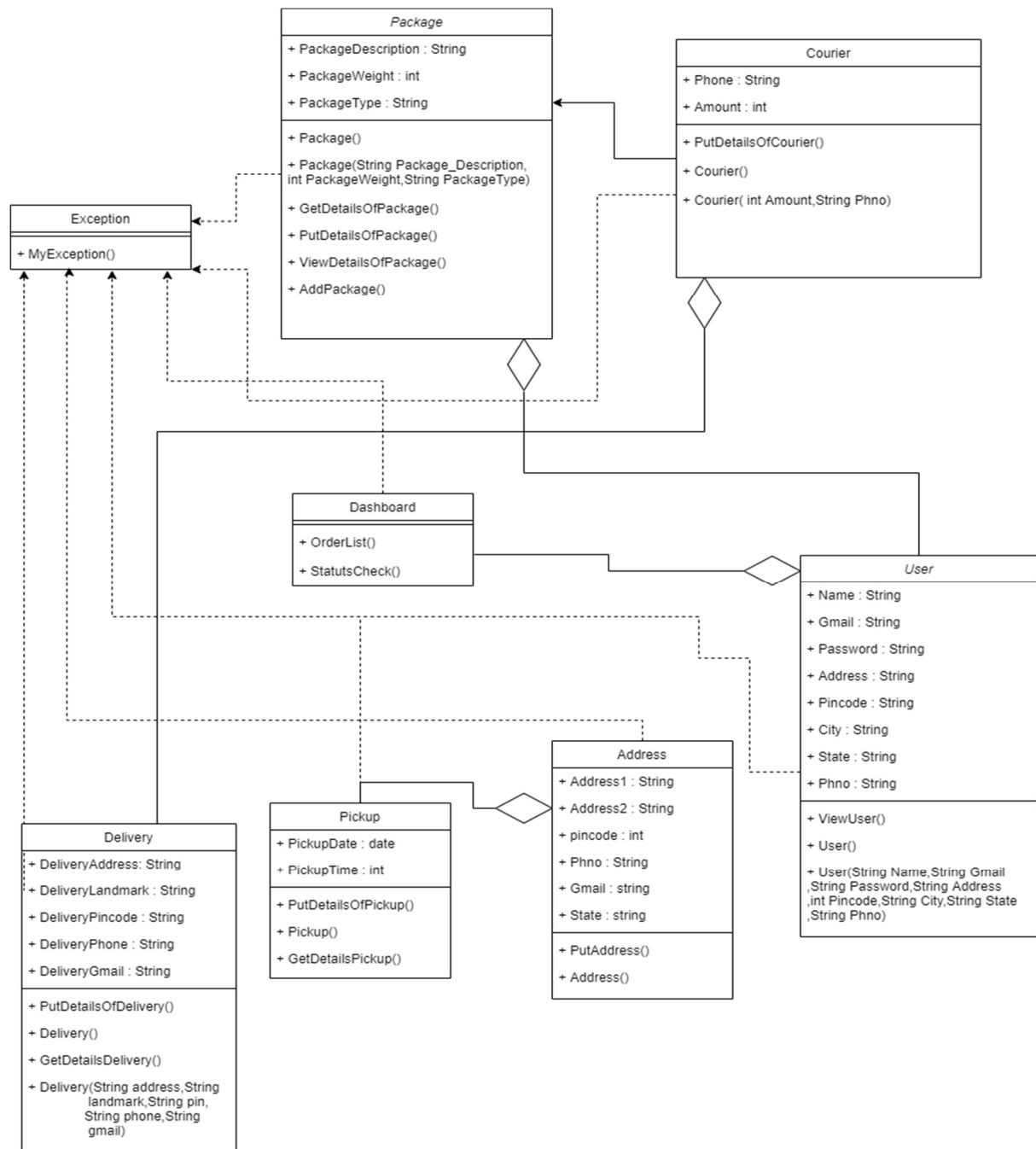
Builder Pattern

The builder pattern is a design pattern designed to provide a flexible solution to various object creation problems in object-oriented programming. The intent of the Builder design pattern is to separate the construction of a complex object from its representation. It is one of the Gang of Four design patterns. Here in this application we use this pattern for adding pickup and delivery details.

Aggregator Pattern

The aggregator design pattern is a service that receives a request, subsequently makes requests of multiple services, combines the results and responds to the initiating request.

Class Diagram




Data Structure and Algorithm

Array

Array list is used in this application for view of multiple data from the firebase database.

Interface



Registration

Pickup Details

Delivery Details

Package details