Requirements Specifications

Overall Description:

A reliable database driven web application that is easy to use and maintain.

Software Requirements:

IDE: Visual Studio Code
Web Browser - Firefox 50 or later, Google Chrome- 60 or later
Database support - Postgres 9
Operating System - Ubuntu 16.04 or higher

Hardware Requirements:

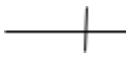
Processor - Pentium 4 or above
RAM - 2 GB or more
Hard Disk- 3 GB or more
Monitor - VGA of 1024x768 resolution or above

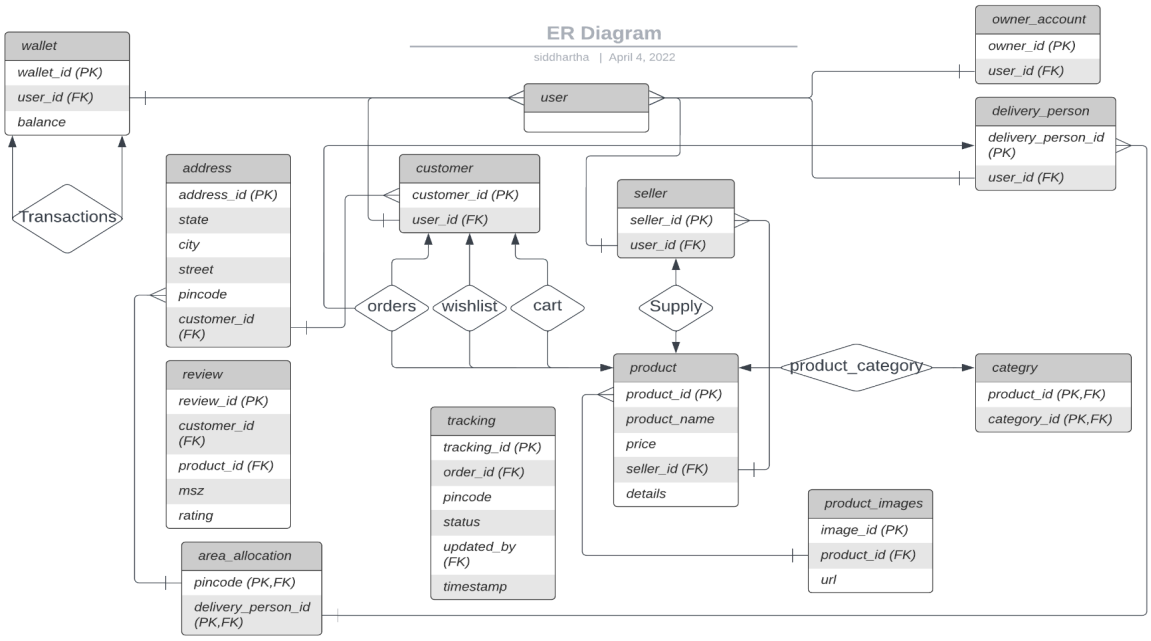
Entity Relationship Diagram

An E-R model does not define a business process, it only presents a business data schema in a graphical form. Entities(boxes) are connected with relationships (lines) which express the dependencies between entities.

We have used this enhanced E-R diagram for our E-commerce system. The identifiers for each table is identified as (PK) attributed as primary key.

 1:n Identifying Relationship

 1:1 identifying Relationship



Use Cases

1) Customers can add/remove products to cart, provide their own user ID and product ID.
2) Customers can add/remove products to cart, provide their own user ID and product ID.
3) Customers can update quantity by providing the product_id, quantity and its user id.
4) Customer provides a string in the search bar to filter out the products having the provided string as a substring of the product's name.
5) User provides its user ID and gets balance in their wallet.
6) Users can add money to wallet by providing the amount it wants to add and its own user ID
7) Users can add addresses by providing its address i.e. user id, state, city, street and pincode. Furthermore each user can have multiple addresses.

8) Users can delete addresses by providing user id and address id.
9) Users can view their cart by providing its own user id.
10) Sellers can add their products by providing the seller id, product's name, image urls, price, detail.