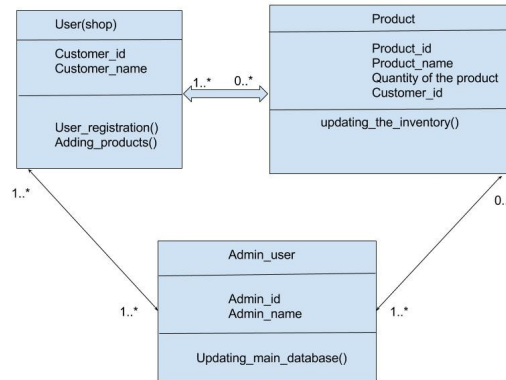# Product Design

Team no: SSAD45

Project name: E-Commerce Backend for online and offline
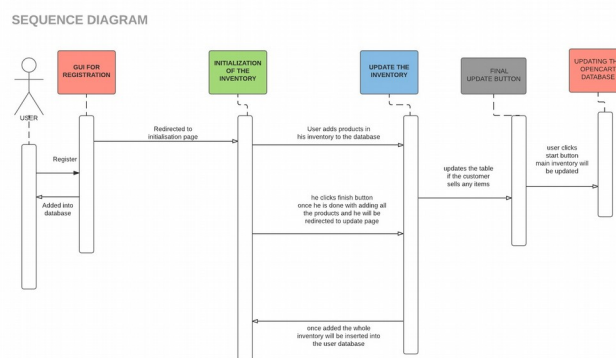synchronisation

Team members:
1) Hari sai charan challa
2) Somu Bhargava
3) *Satwik Aileneni*
4) *Priyansh Agrawal*
5) *Anam Raihan*

1) Product	*Class state* This product class contains information about the name,id and quantity of the product,the id of the customer who is selling that product is also stored *Class behavior* The method implemented is updating_the_inventory() which updates only the user table when he sells any product.
2) User	*Class state* This user class contains name,id of the customer who is basically a seller registerd at opencart. *Class behavior* The methods implemented are registration() and adding_products(). Registration add a new user into the database and the adding_products() initializes the newly created database.
3) Admin_user	*Class state* This class contains admin name and id. *Class behavior* The method update_main_database() updates the entire inventory.

Class diagram:

Sequence diagram.

Design Rationale:

1) We first want to use magento framework for this e-commerce site.But due to many difficulties like we tried to develop a small plugin on magento but we were not able to enable it and the installation also took much time so we changed our framework to opencart.

2) For getting the user data(list of products), we tried using ERP software but installing it is taking a lot of t*ime. so we are developing a prototype of ERP and using that prototype as a complete ERP software.*