Introduction

Problem and Motivation

Solution

Requirement and Goals of the System

We will be designing a system with the following requirements:

1. Users should be able to add new products to sell.
2. Users should be able to search products by their name or category.
3. Users can search and view all the products, but they will have to become a registered member to buy products.
4. Users should be able to add/remove/modify product in their shopping cart.
5. Users can check-out and buy items that are in the shopping cart.
6. Users can rate and add a review for a product.
7. Users should be able to specify a shipping address at the time of check-out where their order will be delivered.
8. Users can cancel an order if it has not shipped.
9. Users should get a notification on any change of their order or shipping status.
10. Users should be able to pay online.
11. Users should be able to track their order to see the current status of their order.
12. Users can question and answer in the discussion forum.

Use case Diagram

We have three main actors in our system:

1. **Admin:** Mainly responsible for account management and adding or modifying a new category.
2. **Guest:** All the guests can search products, add/remove items to their shopping cart and can check-out, buy products.
3. **Member:** All the members can perform all operation of **Guest** besides they can add/remove/modify products.