

# Team 7 Project Design Report

Team 7

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# Chapter 1

## Introduction

This design document is intended to familiarize the reader with the team 7 project, a project for UTSC CSCC01S17. *Note: This document is a work in progress.*

### 1.1 Problem Definition

Small businesses need a better platform for supply chain management, in order to connect with producers and manufacturers. We could like to build a platform on which small business can easily connect with producers and manufacturers and establish a business relationship.

### 1.2 Purpose

The purpose of this document is to provide general information to the reader about the project and provide details for system architecture, description of components, architectural design and UML diagram.

## Chapter 2

# System Architecture

### 2.1 Description of Components (CRC Cards)

1. Class name: **User**  
Parent class (if any): N/A  
Classname Subclasses (if any): Consumer, Producer, Administrator  
Responsibilities:
  - (a) Store information of user and their account
  - (b) retrieve and edit information of user and their accountCollaborators:
  - (a) N/A
2. Class name: **Consumer**  
Parent class (if any): User  
Classname Subclasses (if any): N/A  
Responsibilities:
  - (a) Store specific info for consumers
  - (b) Store payment info and order history
  - (c) Retrieve and edit above infoCollaborators:
  - (a) PersonalInformation
  - (b) PaymentInformation
  - (c) Payment
3. Class name: **Producer**  
Parent class (if any): User  
Classname Subclasses (if any): N/A  
Responsibilities:

- (a) Store specific info for Producer
- (b) Store listings of products
- (c) Retrieve and edit above info

Collaborators:

- (a) BusinessInformation
- (b) Listings

4. Class name: **Administrator**

Parent class (if any): User

Classname Subclasses (if any): N/A

Responsibilities:

- (a) Add and remove users
- (b) Add and remove listings

Collaborators:

- (a) Listings

5. Class name: **Information**

Parent class (if any): N/A

Classname Subclasses (if any): PersonalInformation, PaymentInformation, BusinessInformation

Responsibilities:

- (a) Store info type
- (b) Retrieve info type

Collaborators:

- (a) N/A

6. Class name: **PersonalInformation**

Parent class (if any): Information

Classname Subclasses (if any): N/A

Responsibilities:

- (a) Store personal information of consumer
- (b) Retrieve personal information of consumer

Collaborators:

- (a) Consumer

7. Class name: **PaymentInformation**

Parent class (if any): Information

Classname Subclasses (if any): N/A

Responsibilities:

- (a) Store payment information of consumer
- (b) Retrieve payment information of consumer

Collaborators:

- (a) Consumer

8. Class name: **BusinessInformation**

Parent class (if any): Information

Classname Subclasses (if any): N/A

Responsibilities:

- (a) Store business information of consumer
- (b) Retrieve business information of consumer

Collaborators:

- (a) Producer

9. Class name: **Listings**

Parent class (if any): N/A

Classname Subclasses (if any): N/A

Responsibilities:

- (a) Store product information (name, price, stock, description etc.)
- (b) Retrieve product information

Collaborators:

- (a) Producer
- (b) Administrator
- (c) ProductDescription
- (d) Order
- (e) ProductReview

10. Class name: **ProductDescription**

Parent class (if any): N/A

Classname Subclasses (if any): N/A

Responsibilities:

- (a) Stores details of product
- (b) Stores paragraph descriptions of product
- (c) Stores images of product
- (d) Retrieve above information

Collaborators:

- (a) Listings

11. Class name: **ProductReview**  
Parent class (if any): N/A  
Classname Subclasses (if any): N/A  
Responsibilities:
- (a) Stores information about each review left
  - (b) Stores User, Rating, Review, date
  - (c) Retrieve above information
- Collaborators:
- (a) Listings
12. Class name: **Order**  
Parent class (if any): N/A  
Classname Subclasses (if any): N/A  
Responsibilities:
- (a) Stores information of each order
  - (b) Stores User, Order Number, Item, Price, Shipping address etc.
  - (c) Retrieve above information
- Collaborators:
- (a) Listings
  - (b) Consumer
13. Class name: **AuthController**  
Parent class (if any): N/A  
Classname Subclasses (if any): N/A  
Responsibilities:
- (a) Controls the log in process
- Collaborators:
- (a) Log in View
14. Class name: **UserController**  
Parent class (if any): N/A  
Classname Subclasses (if any): N/A  
Responsibilities:
- (a) Controls the Registration Process
  - (b) Controls creating/removing/modifying user
- Collaborators:
- (a) User model

- (b) Register view
  - (c) Dashboard view
15. Class name: **ListingController**  
 Parent class (if any): N/A  
 Classname Subclasses (if any): N/A  
 Responsibilities:
- (a) Controls creating/removing/modifying listings
- Collaborators:
- (a) Listing model
  - (b) Product view
  - (c) Dashboard view
16. Class name: **OrderController**  
 Parent class (if any): N/A  
 Classname Subclasses (if any): N/A  
 Responsibilities:
- (a) Controls creating/cancelling/modifying orders
- Collaborators:
- (a) Listing model
  - (b) Orders view
17. Class name: **Log in (View)**  
 Parent class (if any): N/A  
 Classname Subclasses (if any): N/A  
 Responsibilities:
- (a) Front end log in page
- Collaborators:
- (a) authController
18. Class name: **Register (View))**  
 Parent class (if any): N/A  
 Classname Subclasses (if any): N/A  
 Responsibilities:
- (a) Front end Registration page
- Collaborators:
- (a) authController



19. Class name: **DashBoard (View)**  
Parent class (if any): N/A  
Classname Subclasses (if any): N/A  
Responsibilities:  
  
(a) Front end user Dashboard page  
  
Collaborators:  
  
(a) UserController  
(b) ListingController  
(c) OrderController
20. Class name: **Products (View)**  
Parent class (if any): N/A  
Classname Subclasses (if any): N/A  
Responsibilities:  
  
(a) Front end product page  
  
Collaborators:  
  
(a) ListingController
21. Class name: **Orders (View)**  
Parent class (if any): N/A  
Classname Subclasses (if any): N/A  
Responsibilities:  
  
(a) Front end order page  
  
Collaborators:  
  
(a) orderController

## Chapter 3

# Architectural Design

### 3.1 UML Diagram

Please reference the `uml.pdf` file under the same directory as this report, or at the bottom of the report.

