Requirement Document
Commerce Website Developer—Grocery Shopping

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User part
1. Public Interface, before login in
   (1) Account Controller
      a) Register: Form as show below
         - verify if the username is unique and meet the limitation
         - verify if email address is unique, correct and having correct format
         - verify if password is no less than 8 characters and meet limitation
         - verify if confirm password is equal to password
         - encrypt password and store it to the database after submitting
         - redirect to the login page and ask the user to login in, if registered successfully, or show the error hint when the form isn't filled as required
         - send confirm email after submitting the form successfully
         - bind the account with the email after the user confirms the email address

Register Form	
Username	unique, have limitation
Email address	unique, format correct, correct email address
Password	require no less than 8 characters, have limitation
Confirm password	equal password

      b) Login:
         - verify if the user account exists
         - verify if the password is correct
         - set the cookie
         - set the expiration date for the cookie if the user wants to keep the account information
         - redirect the index page after the user logins in successfully or show the error hint
Future: sign in with school account or other third-party accounts, adding verification code
      c) Forget password:
         - send the link to the user's email address
         - set the password
   (2) Sale Controller
      a) Category for product:
         - show the whole products of the category
         - add the products to the shopping cart as a guest
Future: grid view and list view, sort, filter, wishing lists, compare
      b) Category for dishes:
         - show the whole dishes of the category.
      c) Product(Ingredients):

- show the detail of one product
- can change the information, like quantity, weight
- add to the shopping cart and database as a guest account
- provide the related dishes here for the user to choose
  d) Dishes:
- show the detail of the dishes and provide the ingredients of the dishes
- can change the information, like quantity, weight here
- the selected ingredients can be added to the shopping cart together
- store to the database for a guest
  e) Shopping cart:
- modify quantity, weight
- remove products
- place the order and record the order
  (3) Shipping Controller
  a) Delivery
- fill the name, delivery address and comment in the form
- different delivery type choice

Future: check address

  b) Carryout
- choose pick-up date, time and location
- choose packing type
  c) Carpooling(form shown below)
- choose from different time selections
- create a group of people reasonably (depending on car type)
- set the meeting location

Future: consider old meeting location

Selection DATE, Time, Location	single or return
Name	required
pick-up location	required
phone	required

  (4) Checkout Controller
- get total price including shipping fee
- record the checkout information to the database

future: payment api

2. User administration Interface, after login in
   (1) Account Controller
   a) Load the account information
- load the purchased information
- load personal information
- load shopping cart information
   b) modify password:
- modify password
   b) Sign out:
- redirect the login page
   (2) Sale Controller
   a) Category for product:

- show the whole products of the category
- add the products to the shopping cart as a user

Future: Grid view and list view, sort, filter, wishing lists, compare

    b) Category for dishes:
- show the whole dishes of the category

    c) Product(Ingredients):
- show the detail of one product
- can change the information, like quantity, weight
- add to the shopping cart and database as a user account
- provide the related dishes here for the user to choose

    d) Dishes:
- show the detail of the dishes and provide the ingredients of the dishes
- can change the information, like quantity, weight here
- the selected ingredients can be added to the shopping cart together
- store to the database for a user

    e) Shopping cart:
- modify quantity
- remove products
- place order
- store to the database

(3) Shipping Controller
    a) Delivery
- fill the name, delivery address and comment in the form
- different delivery type choice

    b) Carryout
- choose pick-up date, time and location
- packing type

    c) Carpooling(form shown below)
- choose from different time selections
- create a group of people (depending on car type)
- set the meeting location

Selection DATE, Time, (Location)	single or return
Name	required
pick-up location	required
phone	required

(4) Checkout Controller
- get total price including shipping fee
- record the checkout information to the database

Administrator Part
(1) Account Controller
- mange account information
(2) Sale Controller
- manage the order
- change the quantity, weight and other features of the products
- add new products and remove old products

- add new dishes and remove old dishes
- add, remove, update dish tag on the product
- place products and dishes into different category

(3) Shipping Controller
- change the shipping information
- change shipping way
- change the group of people automatically again or manually

(4) Checkout Controller
- change the payment information