

Commerce Website Developed—Grocery shopping

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Goals:

Firstly, the most important goal is trying to help you to buy what you want to eat, cook with and use and providing a convenient way particularly for those students who live far from the grocery store and don't own a car, for example international students. They may prefer to buy something familiar rather than something in the Walmart. Secondly, adding carpooling service into the commerce website instead of transitional shipping way is the most amazing part. There may be several students who go to the real grocery store sharing one car operated by the seller or several buyers themselves. Thirdly, adding recipe service will also be considered in this commerce website. It may be a better way to do some recommendations and help you clear what kind of food can be made by these ingredients. The main goal is always to make students' life easier and create an attracting and usable website, particularly focusing on Chinese students here.

Motivation:

- Developing this website actually will help students, like me, buy food or something else. Instead of going there, picking goods and carrying them back, I'd prefer to do all these stuffs at home.
- Sometimes, I may prefer to have a look at the grocery store. If the Grocery shopping website will provide special shipping way like carpooling. I think this way may help lots of students go to the Grocery store easier. It will be very considerate.
- Buying food looks more convenient then. However, if I want to know how to cook with what I have buy, providing some simple recipe, it will be very thoughtful and sweet.
- This application may provide a section about fresh and live things, such as, fishes, blue crab, spinach and so on.

Technical Challenges:

- Plan to learn some knowledge about web server
- Plan to learn some knowledge about choose the web developing language
- Plan to learn some knowledge about web framework and usually it is based on the web developing language that I choose
- Plan to learn some knowledge about using database
- Plan to learn some knowledge about the data-interchange format
- Plan to make an attracting website and great user experience design will be a challenge, such as using bootstrap temple, Font awesome Icon, jQuery and YUI
- Plan to learn some knowledge about payment api
- Plan to raise the security for the shopping website, but don't know much about web security
- Plan to add high concurrence, but don't know much about that.

Milestone 1(Feb 23):

- Investigate and select tools,like web developing language(Java,Php, Python, Ruby, Nodejs), IDE(Intellij, Eclipse, NetBeans), web server(Nginx, Apache, Tomcat, Jboss), web framework(Play, SSH, Django, ROR), database(Mysql, Mariabd, SQL server, Oracle, Redis and Mangodb), data-interchange format(JSON, XML), UI design(Bootstrap, Font awesome, jQuery and YUI), payment api(Paypal, Stripe, Squire), Version control tool(Svn, Git, Github)
- Try write some small example codes evaluate those things above and to determine if they are sufficient for the project.
- Try to deploy the website in code.fit.edu
- Write requirement document
- Write design document
- Write test plan
- Design and develop the front end

Milestone 2(Mar 23):

- Design and test the front end
- Develop and design the back end (web server)
- Communicate with user front by using dynamic data in database instead of using static data.
- Achieve the basic functions, such as, log in, register, buy, ship, display, check out and special features
- Test the basic functions above

Milestone 3(Apr 20):

- Add and design carpooling service, recipe service and other service
- Test the front end and back end
- Fix bugs
- improve the user interface and improve the user experience
- Make a survey and ask feedback from those who have used this website
- Try to improve the security of the website and raise the high scalability

Approval from Faculty Sponsor

"I have discussed with the team and approve this project plan. I will evaluate the progress and assign a grade for each of the three milestones."

Signature: _____ Date: _____