

CS300 - CSC13002 - Introduction to Software Engineering

Project Assignment 0 (PA0)

- **Group member**

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- **Project proposal**

- ❖ **Problem description**

Many people nowadays do not know anywhere to buy safe food, especially vegetables. They, therefore, have to buy necessary foods from traditional markets that cannot give customers any information about how these foods were grown or where they came from. Consequently, consuming these products consistently can lead to various lethal diseases like stomach cancer, and thus, this phenomenon can put the medical care system in trouble.

- ❖ **Solution proposal**

To alleviate this situation, our team has come up with an online shopping website called “Tập Hóa Chuối Bì To” which provides everyone with an easier, more convenient alternative way to buy clean, nutritious vegetables. This project is a measure to protect our community from several unwanted health problems.

- ★ **Target users and environments**

- a. Target User:**

Our plan is to build a shopping website about purchasing safe, home-grown vegetables for everybody regardless of their age or gender including

- ❖ People are too busy working all day to go to markets, they can just sit at their office and order a bunch of vegetables.
- ❖ Introverts who are not comfortable about going to busy markets.
- ❖ Housewives who want their family to have healthy meals.

- ❖ Gymers who are taking steroids which are damaging their organs; therefore they want to consume safe vegetables to minimize the effect on their health.
- ❖ Vegetarians (such as monks, Buddhists, etc) who cannot live without fresh vegetables in their meals.

b. Environment:

- We use MongoDB which creates a database to store items and customer information.
- ReactJS and Figma for designing and implementing our website interface (front-end).
- ExpressJS and NodeJS for coding the root of our website (runtime & back-end).
- Users can visit our website on almost any browser: Firefox, Chrome, Brave, Microsoft Edge, Opera, Apple Safari,...
- Monitor size: Responsive.
- Hosting options:
 1. Local
 - 16 GB RAM, 32 vCPU, 200GB Storage
 - MongoDB host locally
 2. Cloud
 - Netlify free tier (PaaS)
 - MongoDB Atlas - AWS (DBaaS): 512MB DB storage

★ Key features

Project model: Waterfall

Account features: (Customer Account and Employee Account)

- Sign in / Sign out accounts.
- Sign up for a customer account.
- Change password and edit information of customer (avatar, cover, etc)

Actor 1: Admin

- Have authority to add employee accounts and ban accounts.
- Collect a list of best seller items weekly
- Manage a list of items which are nearly out of stock for updating new items faster.

Actor 2 : Shop Employees.

- See top of new comments (10 latest comments) and respond to these.
- Categorize each type of vegetable.
- Post item information (price + images + name + date + quantity) and edit posts.
- Manage the orders from customers (Update orders status:
Waiting/Delivering/Deliver Successful/Done/Cancel)

Actor 3 : Customers

- Search and show items by keywords.
- Purchase items
- Able to check the top selling items.
- Add items to “cart” to make a list of things customers want to buy.
- After purchasing items, customers have permission to comment and rate their orders.
- Cancel their order at anytime (must be pre-delivery)
- Sharing posts to other social platforms (Facebook,Instagram,...)
- Add their favorite items into a list.