Requirement document for Generic Ecommerce

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Dec 2019

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1. **Features**
   1. Roles
      1. Business requirement

The website will have three layouts depends on the user who logins into the system.

* Admin:
  + Create user for shop owner or manager when a shop wants to use the website for their business
  + Modify user interface that fits the requirement and culture of the shop
  + …
* Owner / Manager:
  + Upload products, do sale, monitoring, …
* Staff:
  + Do sale, …
* Customer:
  + Purchase order online, …
    1. Technical

Define four roles as enum for the system to work

* Admin: Have all the features
* Owner / Manager: Have all the shop’s features
* Staff: Have some basic features of Owner / Manager role
* Customer: Have all customer’s features
  1. Sign up
     1. Business requirement

This feature only for customer when logging into any shop’s domain. Customer needs to sign up to be able to purchase products online from the shop

There are some features that customer can still use without signing up and logging in like browsing the website to look for some particular product, FAQs, Feedback, …

After signing up, navigate user to a success sign up page. (See 1.3)

* + 1. Technical

To sign up, customer needs to provide basic information:

* First name, last name
* Email address
* Phone number
* Gender
* Date of birth
* Password
* Reenter password

After successfully creating user, send an activated link to their email. User clicks on the link, it will redirect the user to a success page to notify.

* 1. Activate signed up account:
     1. Business requirement:

After use has successfully signed up a new account, navigate user to a success page. Then inform user to check their email to activate the account

* + 1. Technical

1. Setup system email
2. Send an email to user with a link
3. A post request, with user id to activate
4. http://{port}/api/users/activate/{id}.
5. After user clicks on the link, navigate to login page.
   1. Login
      1. Business requirement

User needs to login to have access to all the features based on user’s role (See 1.1)

Note: User in general do not need to login to use some basic functionalities of the website.

* + 1. Technical

When login user needs to provide:

* Email address
* Password

The backend will verify and return a JWT for user to store in Web Storage. This JWT will be used to access all the features required login.

* 1. Forget password:
     1. Business requirement

In case the user (only for admin, customer and shop owner) forgets the password, they can use this feature to reset the password.

There are two methods can be used to reset

* Send an OTP to email
* Send an OTP to phone
  + 1. Technical
* Auto generate a random OTP with length 6 consists of lowercase letters and number.
* Depend on the method that user selects, send it to email or phone number based on their profile.
* An OTP will last for 2 minutes, provide a countdown to notify the user on UI
* Allow user to resend the OTP, and reset the countdown
* If user correctly enter OTP, redirect user to change password page.
  1. Login OAuth:
     1. Business requirement:

Use Google authentication for user to login.

* + 1. Technical
* Integrate firebase for google sign in
* Send the user information and access token provided by Google to back end
* Backend will check this token with google to verify
* Verify success, check if there is a user with this email then do login otherwise, sign up for new user
* Generate an access token and send back to front end
  1. Dashboard – Shop: TODO
  2. Dashboard – Customer: TODO
  3. DOCS\_Template:
     1. Business requirement:

----text----

* + 1. Technical

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