# Ecommerce Application

Sell zhu zhu pets – categories: series 1 to 7, special edition

Work to complete:

## Design

Sketch wireframes: done

Determine major endpoints: done

Home

Menu/Categories (get)

Menu/Search

User/signup (post)

User/signin (post)

User /Cart (get)

User/Cart/Add (post)

Info/privacy (get)

Info/terms (get)

Info/agreement (get)

Info/sitemap (get)

Create basic User Stories: done

User browse – not logged in using menu>categories, search or slider>categories, click on item

User signup (must have valid info)

User login (must have valid login)

User add to cart (must be logged in)

User checkout (must be logged in and have items in cart, valid address, valid payment)

User read important info

Basic work flows:

home> categories> item>add to cart>signin> browse>add to cart>checkout>signout

home>search>item>add to cart>signup>signin> info pages>checkout>signout

Database:

Users: name, email, password(hashed), [{role}], optional payment info(hashed)

Roles: name [user, admin]

Categories: name

Products: name, {category}, description, price, image

Carts: {user}, [{item}, units], total

Payments: {cart}, payment info, delivery info (hashed)

## Build

Technology: express, cors, mongoose, bcrypt, jsonwebtoken, cookie-session, [paypal, stripe]?

Dev: dotenv, jest, supertest, nodemon, eslint

Create backend skeleton project with mongodb

Setup main endpoint “/” and test

Add placeholders for major endpoints and tests

Add signup/signin/signout with JWT and htmlcookie – test with postman and write tests

- duplicate signup, incorrect password, user not exist

Add cors support

Create frontend skeleton project

Home page

Login/signup

Add nav bar and footer to home page, info pages and logout

Create basic jest+ react testing library tests

Create Home page content (categories/items) and tests

Add search bar functionality

Cleanup categories &refactor item cards for reuse

Add autocomplete functionality - use AutoComplete from MUI

Bug - Flicker in search results -fixed by useLayoutEffect instead of useEffect

Fix UI Bugs: Fix page resize and Fix Footer on main page, use media query

CI/CD on Render

Complete UI tests

Enhance Mobile performance – reduce image sizes

Use redis & refactor promises to enhance performance

prepare BDD for Cart functionality - Gerkin

Create cart, add to cart

Create payment, delivery