



ĐẠI HỌC QUỐC GIA THÀNH PHỐ HỒ CHÍ MINH
TRƯỜNG ĐẠI HỌC KHOA HỌC TỰ NHIÊN

PHÁT TRIỂN ỨNG DỤNG WEB

MID-TERM PROJECT

Giảng viên: Nguyễn Huy Khánh

Sinh viên thực hiện

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19127415 – Huỳnh Duy Hưng

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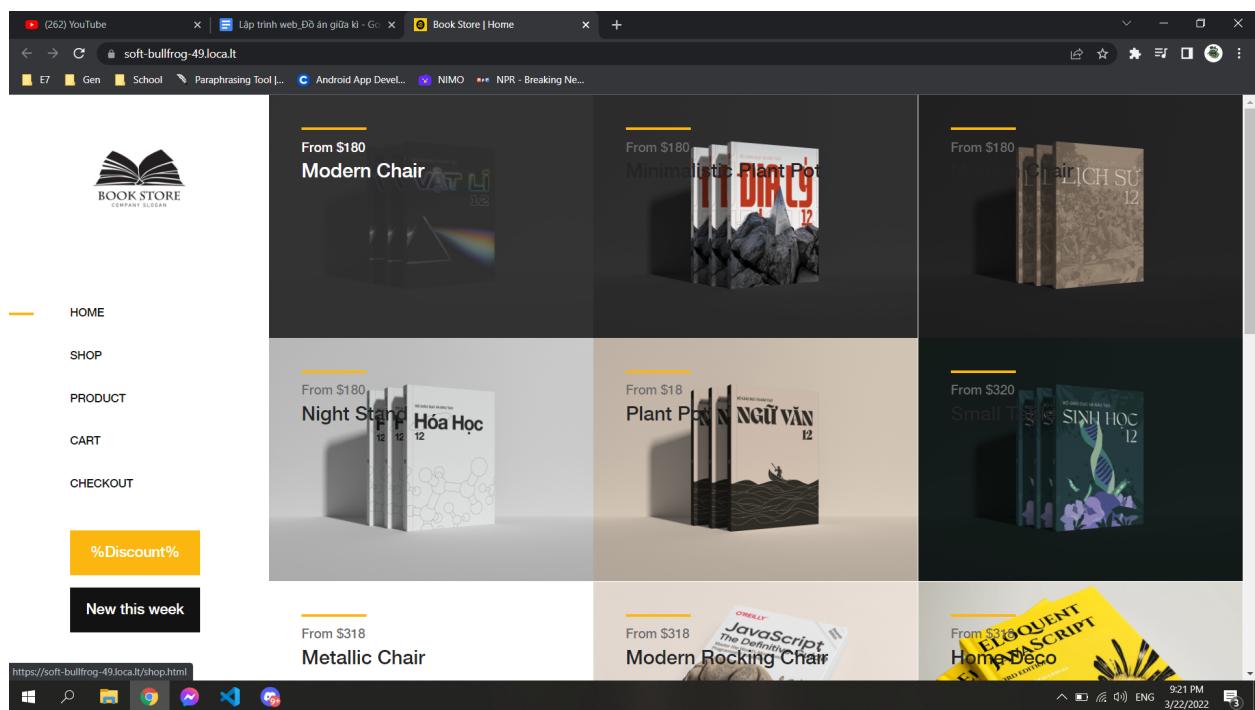
I) Describe your project that you want to build

1) Overall description about your project:

- Our website sells books with many different genres (Love, horror, myths, ...)

2) Describe your project feature with screenshot:

- Sign in
- Sign up
- Sign out
- Home screen



- View all product in store

YouTube | Lập trình web_Đồ án giữa kì - Google Slides | Book Store | Shop

soft-bullfrog-49.localt/shop

E7 Gen School Paraphrasing Tool |... Android App Devel... NIMO NPR - Breaking Ne...

Catagories

- Chairs
- Beds
- Accessories
- Furniture
- Home Deco
- Dressings
- Tables
- Brands
- Amado
- Ikea

Showing 1-8 OF 25

Sort by Date View 12

%Discount%

New this week

<https://soft-bullfrog-49.localt/shop#>

9:21 PM 3/22/2022

- Add/remove book(s) to cart

YouTube | Lập trình web_Đồ án giữa kì - Google Slides | Book Store | Cart

soft-bullfrog-49.localt/cart

E7 Gen School Paraphrasing Tool |... Android App Devel... NIMO NPR - Breaking Ne...

Shopping Cart

Name	Price	Quantity
White Modern Chair	\$130	Qty - 1 +
Minimal Plant Pot	\$10	Qty - 1 +
Minimal Plant Pot	\$10	Qty - 1 +

Cart Total

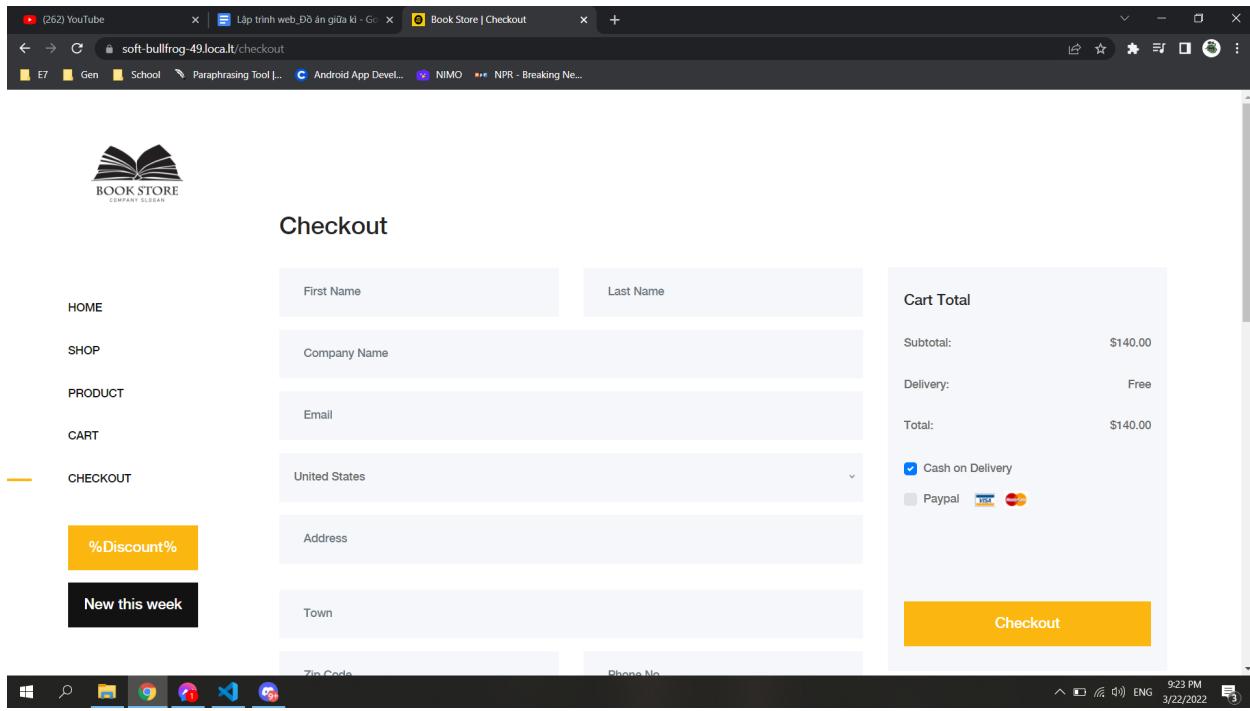
Subtotal:	\$140.00
Delivery:	Free
Total:	\$140.00

Checkout

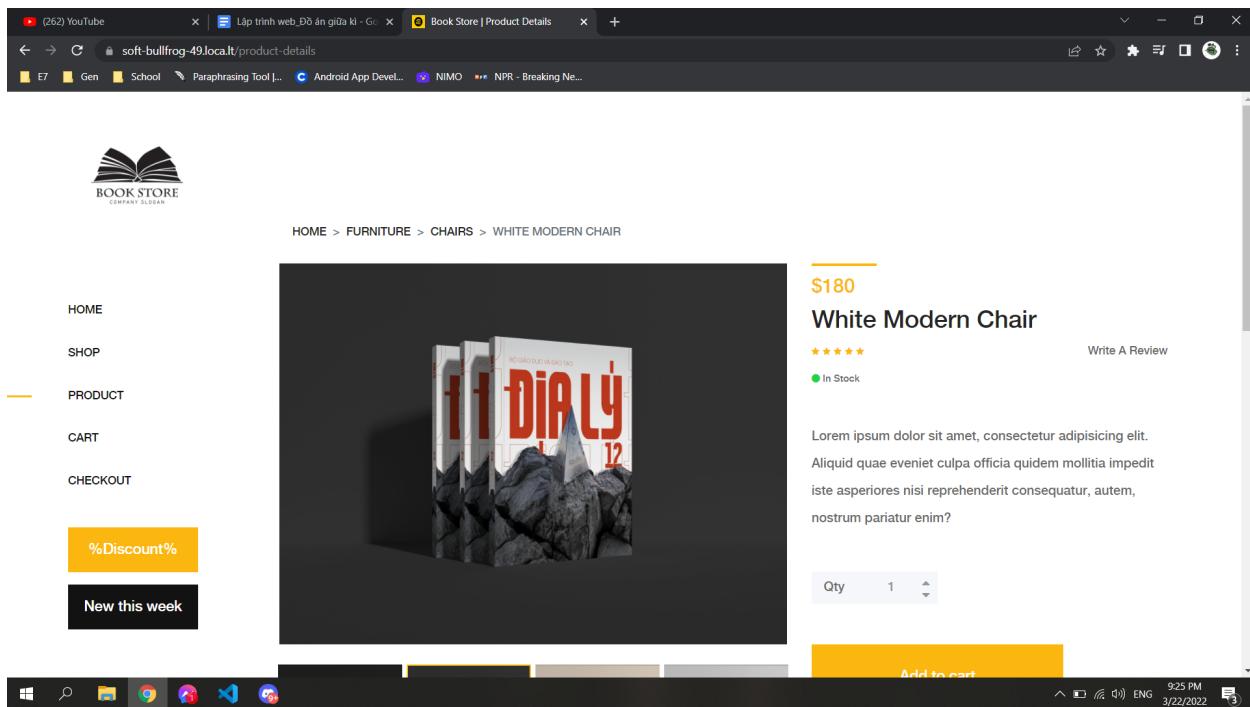
<https://soft-bullfrog-49.localt/cart>

9:22 PM 3/22/2022

- Make order



- View order
- Payment (cash/credit)
- Searching
- Preview product



- Filter (price/genre/rating/author/catalogy)
- Change password
- Edit personal information(Name, DoB, address, ...)

- Add/edit book
- View revenue

The screenshot shows the DASHMIN - Bootstrap Admin Template dashboard. On the left, there's a sidebar with navigation links: Dashboard, Elements, Widgets, Forms, Tables, Charts, and Pages. The main area features several widgets: 'Today Sale' (\$1234), 'Total Sale' (\$1234), 'Today Revenue' (\$1234), 'Total Revenue' (\$1234), 'Worldwide Sales' (bar chart for USA, UK, AU from 2016 to 2022), 'Sale & Revenue' (line chart for Sales and Revenue from 2016 to 2022), and a 'Recent Sale' table with one entry: Date (01 Jan 2045), Invoice (INV-0123), Customer (Jhon Doe), Amount (\$123), Status (Paid), and Action (Detail). The URL in the address bar is https://soft-bullfrog-49.localt/dashboard.

- Chat with store
- Rate
- View revenue in a year

The screenshot shows the DASHMIN - Bootstrap Admin Template chart section. The sidebar on the left has a 'Charts' link selected. The main area displays four charts: 'Single Line Chart' (line chart for Sales from 2016 to 2022), 'Multiple Line Chart' (line chart for Sales and Revenue from 2016 to 2022), 'Single Bar Chart' (bar chart for Sales by country: Italy, France, Spain, USA, Argentina), and 'Multiple Bar Chart' (bar chart for Sales by country: USA, UK, AU from 2016 to 2022). The URL in the address bar is https://soft-bullfrog-49.localt/chart.

- View list of in store(admin mode)

II) Build static pages by using Express with MVC architecture

- 1) Page of Customer website (at least 5 pages) (above)
- 2) Page of Admin website (at least 5 pages) (above)
- 3) Upload two of the above website to public host

```

File Edit Selection View Go Run Terminal Help
WEB
  > bin
  > node_modules
  > public
  > routes
    > views
      - cart.hbs
      - chart.hbs
      - checkout.hbs
      - dashboard.hbs
      - error.hbs
      - index.hbs
      - layout.hbs
      - product-details.hbs
      - shop.hbs
      - signin.hbs
      - table.hbs
      .gitattributes
    JS app.js
    package-lock.json
    package.json

app.js - WEB - Visual Studio Code
  1 // This is a comment
  2
  3 // Import express
  4 const express = require('express');
  5
  6 // Create a new express app
  7 const app = express();
  8
  9 // Set the view engine to ejs
 10 app.set('view engine', 'ejs');
 11
 12 // Serve static files from the public directory
 13 app.use(express.static('public'));
 14
 15 // Define routes
 16 app.get('/', (req, res) => {
 17   res.render('index');
 18 }
 19 );
 20
 21 // Catch 404 and forward to error handler
 22 app.use(function(req, res, next) {
 23   next(createError(404));
 24 });
 25
 26 // Error handler
 27 app.use(function(err, req, res, next) {
 28   // Set locals, only providing error in development
 29   res.locals.message = err.message;
 30   res.locals.error = err;
 31
 32   // Render the error page
 33   res.status(500).render('error');
 34 });
 35
 36 // Start the server
 37 app.listen(3001, () => {
 38   console.log('Server started on port 3001');
 39 });

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
PS D:\FILE\WEB\midterm\midterm\WEB> npm start
> midterm@0.0.0 start
> node ./bin/www
[1]
[2]
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[51]
[52]
[53]

node
powershell

```

```

File Edit Selection View Go Run Terminal Help
File Explorer Terminal
WEB
  > bin
  > node_modules
  > public
  > routes
  > views
    - cart.hbs
    - chart.hbs
    - checkout.hbs
    - dashboard.hbs
    - error.hbs
    - index.hbs
    - layout.hbs
    - product-details.hbs
    - shop.hbs
    - signin.hbs
    - table.hbs
    .gitattributes
  JS app.js
  package-lock.json
  package.json

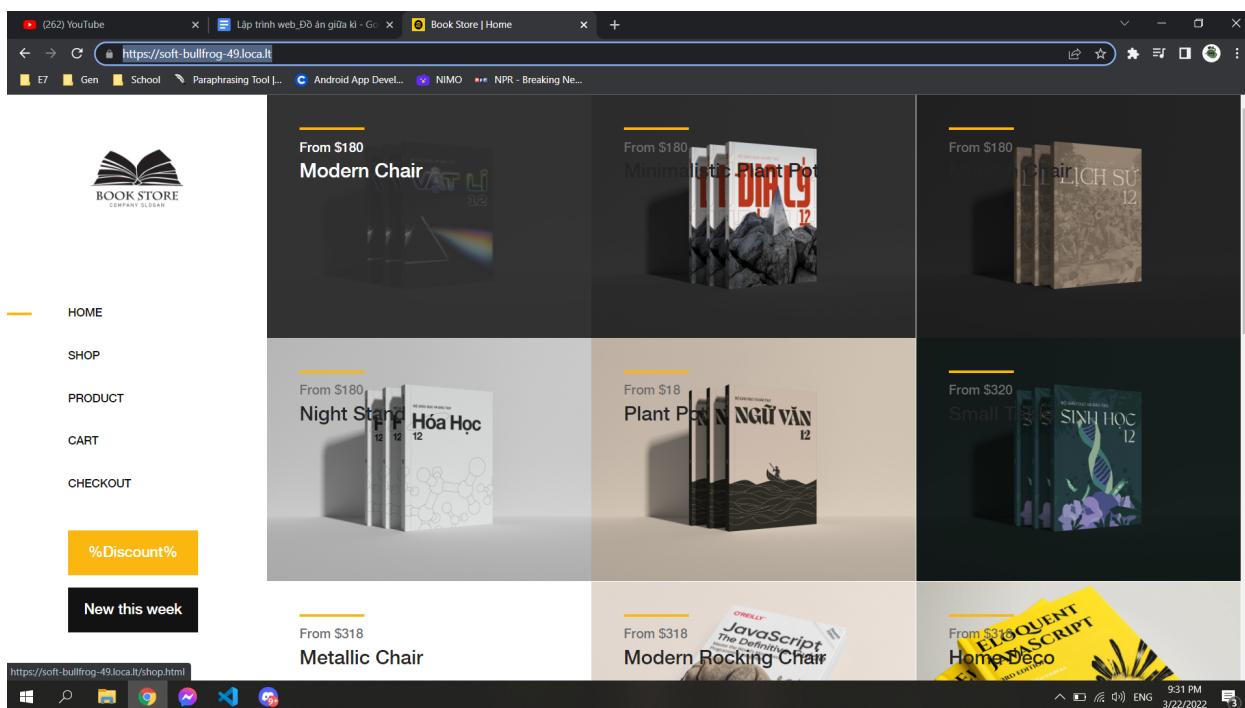
JS app.js
  14 app.use(express.urlencoded({ extended: false }));
  15 app.use(cookieParser());
  16 app.use(express.static(path.join(__dirname, 'public')));
  17
  18 app.use('/', indexRouter);
  19 app.use('/checkout', checkoutRouter);
  20 app.use('/cart', cartRouter);
  21 app.use('/shop', shopRouter);
  22 app.use('/product-details', productdetailsRouter);
  23 app.use('/signin', signinRouter);
  24 app.use('/dashboard', dashboardRouter);
  25 app.use('/chart', chartRouter);
  26 app.use('/table', tableRouter);
  27
  28 // catch 404 and forward to error handler
  29 app.use(function(req, res, next) {
  30   next(createError(404));
  31 });
  32
  33 // error handler
  34 app.use(function(err, req, res, next) {
  35   // set locals, only providing error in development
  36   res.locals.message = err.message;
  37   res.locals.error = err;
  38   // res.status(err.status || 500);
  39   res.end();
  40 });
  41
  42
  43
  44
  45
  46 // catch 404 and forward to error handler
  47 app.use(function(req, res, next) {
  48   next(createError(404));
  49 });
  50
  51 // error handler
  52 app.use(function(err, req, res, next) {
  53   // set locals, only providing error in development
  54   res.locals.message = err.message;
  55   res.locals.error = err;
  56   res.end();
  57 });

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS D:\FILE\WEB\midterm\midterm\WEB> npx localtunnel --port 3000
your url is: https://soft-bullfrog-49.localtunnel.me

```



- III) Design your database structure for your project (data migration script, database diagram in your report)
- 1) Database schema
 - a) Data migration script

```
***** Script for SelectTopNRows command from SSMS *****/
SELECT TOP (1000) [AuthorID]
    ,[Name]
  FROM [Web_midteam].[dbo].[AUTHOR]
GO

***** Script for SelectTopNRows command from SSMS *****/
SELECT TOP (1000) [BookID]
    ,[AuthorID]
    ,[PublisherID]
    ,[Title]
    ,[Genre]
    ,[Publication_year]
    ,[Price]
  FROM [Web_midteam].[dbo].[BOOK]
GO

***** Script for SelectTopNRows command from SSMS *****/
SELECT TOP (1000) [CustomerID]
    ,[Password]
    ,[Name]
    ,[DoB]
    ,[Address]
    ,[Phone_number]
  FROM [Web_midteam].[dbo].[CUSTOMER]
```

Result:

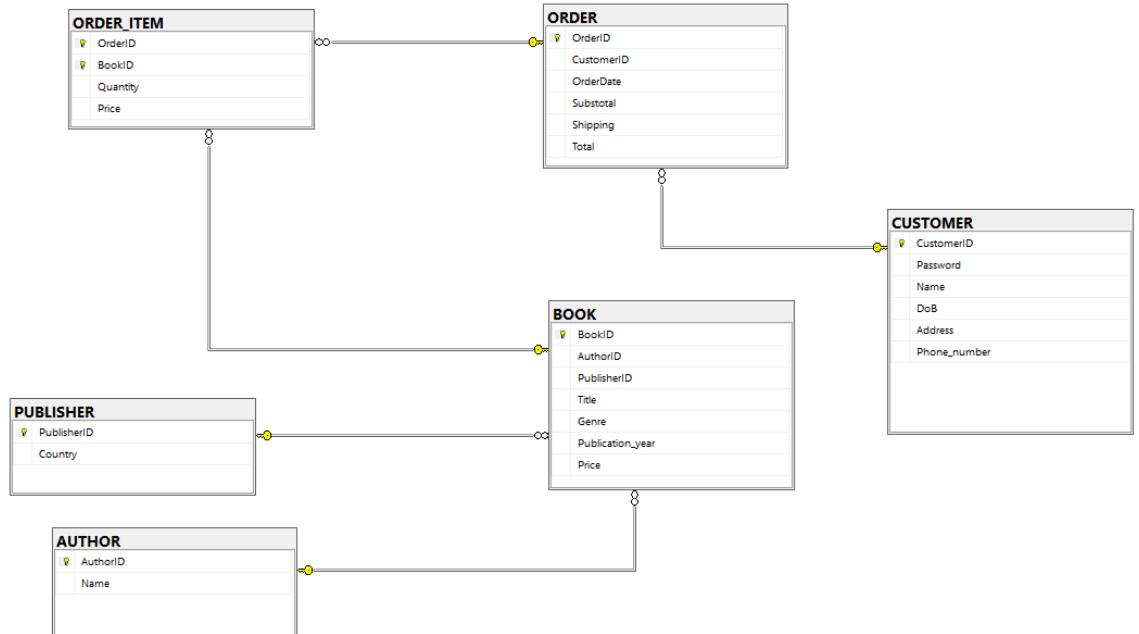
Results Messages

	AuthorID	Name
1	A01	Luan
2	A02	Khoa
3	A03	Khang
4	A04	An

	BookID	AuthorID	PublisherID	Title	Genre	Publication_year	Price
1	B01	A01	P01	Code	Education	2022	111111
2	B02	A02	P02	OOP	Education	2021	222222
3	B03	A03	P03	Computer network	Education	2020	333333
4	B04	A04	P04	Love story	Love	2019	444444

	CustomerID	Password	Name	DoB	Address	Phone_number
1	C01	123456	Luan	2001-03-27	Binh Tan	1234567890
2	C02	123456	Khoa	2001-01-02	Tan Phu	234567890
3	C03	123456	Kha...	2001-02-03	Tan Binh	3456789120
4	C04	123456	An	2001-03-04	Quan 10	4567891230

b) Database diagram



2) Sample data

- CUSTOMER

CustomerID	Password	Name	DoB	Address	Phone_num...
C01	123456	Luan	2001-03-27	Binh Tan	1234567890
C02	123456	Khoa	2001-01-02	Tan Phu	234567890
C03	123456	Khang	2001-02-03	Tan Binh	3456789120
C04	123456	An	2001-03-04	Quan 10	4567891230

- AUTHOR

AuthorID	Name
A01	Luan
A02	Khoa
A03	Khang
A04	An
NULL	NULL

- PUBLISHER

PublisherID	Country
P01	VN
P02	USA
P03	JP
P04	CN

- BOOK

BookID	AuthorID	PublisherID	Title	Genre	Publication...	Price
B01	A01	P01	Code	Education	2022	111111
B02	A02	P02	OOP	Education	2021	222222
B03	A03	P03	Computer n...	Education	2020	333333
B04	A04	P04	Love story	Love	2019	444444
NULL	NULL	NULL	NULL	NULL	NULL	NULL

- ORDER (order information)

OrderID	CustomerID	OrderDate	Subtotal	Shipping	Total
O01	C01	2021-01-01 ...	123456	20000	143456
O02	C02	2021-02-02 ...	123456	10000	133456
O03	C01	2021-03-03 ...	123456	30000	153456
O04	C02	2021-04-04 ...	123456	40000	143456

- ORDER_ITEM(Consist of books in orders and price of each other)

OrderID	BookID	Quantity	Price
O01	B01	1	123456
O02	B02	1	123456
O03	B03	1	123456
O04	B04	1	123456