University of Science – VNUHCM Faculty of Technology

MIDTERM REPORT BITI'S ECOMMERCE WEBSITE

Course Web Application Development

Course ID CSC13002_21CLC04

Authors 21127072 – Nguyen Huu Khanh

21127738 – Tran Bao Ngoc

Mentors M.S Nguyen Huy Khanh

A. Self-Evaluation Document

Team member: Tran Bao Ngoc

I. Technical skills

1. Front-end development:

- Strengths: Proficient in HTML, CSS, and JavaScript. Experience with popular front-end frameworks such as Bootstrap 5, ExpressJS.
- Areas for Improvement: Planning to enhance skills in responsive design and explore advanced JavaScript concepts.

2. Version control (Git):

- Strengths: Proficient in using Git for version control. Consistent use of branches and meaningful commit messages.
- Areas for Improvement: Plan to explore more advanced Git features and workflows.

II. Project contributions

1. Feature implementation:

- Contributions: Led the implementation of the redesigned pages for user (customers and admin) interface.
- Challenges: Faced challenges in keeping track of time with a considerable large number of pages.

2. Write report:

• Responsible for writing the project report and making decisions for the overall project's functionality.

Team member: Nguyen Huu Khanh

I. Technical skills

1. Database management:

- Strengths: Skilled in designing and implementing relational databases using MySQL. Experience with database normalization.
- Areas for Improvement: Interested in gaining more expertise in NoSQL databases and optimizing database performance.

2. Version control (Git):

- Strengths: Proficient in using Git for version control. Consistent use of branches and meaningful commit messages.
- Areas for Improvement: Plan to explore more advanced Git features and workflows.

II. Project contributions

1. Database design:

- Contributions: Developed the database diagram, emphasizing normalization for optimal data storage using SQL Server.
- Challenges: Faced challenges in balancing the trade-off between normalization and performance, resolved through consultation with the team.

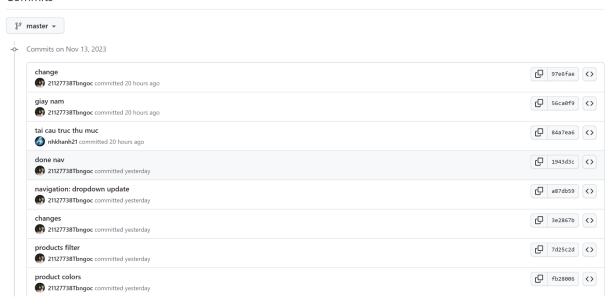
2. Web hosting:

 Responsible for hosting the website using Render, Express-handlebars and ExpressJS, Nodmon, Mogan, HBS.

B. Git commit history

Git commit history: Bitis | Git commit history

Commits



C. Features description

Project overview

The project has 11 pages for 2 stakeholders: Buyers and Admin.

- For Buyers: 5 pages including Home, Shop for men, Shop for women, About Biti's, and Contact page.
- For Admin: 6 pages including Dashboard, Calendar, Chat, Login, Register, and Orders management.

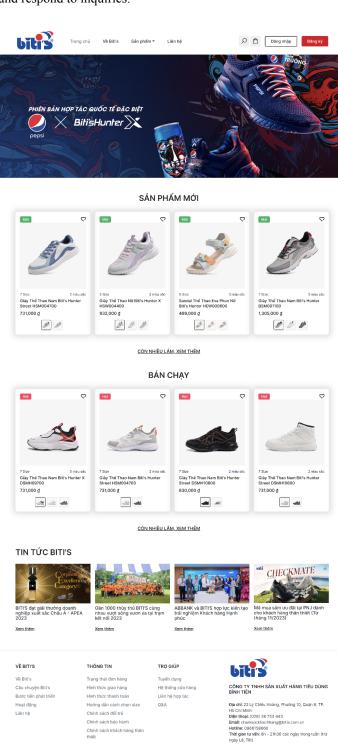
I. Primary features:

- 1. User:
- **Homepage:** The main landing page of the website.
- Navigation bar: A menu or set of links that allow users to easily navigate to different sections or pages within the website.
 - o Logo
 - Navigation links
 - o Dropdown menu
 - o Search bar
 - User account section
- **Footer:** The bottom section of a webpage, typically containing copyright information, links to important pages, and sometimes contact details.
- Call-to-Action (CTA): Prominent buttons or links that encourage users to take a specific action, such as making a purchase, signing up, or contacting the business.
 - o Primary buttons
 - Secondary buttons
 - Tertiary buttons
 - Outline buttons
 - Link buttons
- Forms: Areas where users can input information, such as contact forms, login forms, or search bars.
- Modals: Pop-up dialog boxes that overlay the current page content.
 - o Username/Email field
 - Password field
 - Forgot password link
 - o Login/Sign up button
 - Close button
- E-commerce cards: An interactive element commonly used on e-commerce websites to showcase individual products or items within a larger catalog. Typical components found in an e-commerce product card:
 - Product image
 - o Product name
 - Product price
 - o Product title
 - Product variants/options
 - Promotional badges
 - Swap images while hovering

2. Admin:

- **Dashboard:** A centralized area where administrators can access various tools and features to manage the website. It often provides an overview of key metrics and system status.
- **Content management system:** Allows administrators to create, edit, and organize the content on the website, including articles, pages, products, or any other type of information.
- User management: Functionality to add, edit, and remove user accounts. This includes assigning roles and

- permissions to control access levels for different administrators.
- **Settings panel:** Configuration options for customizing the website's behavior, appearance, and other parameters. This can include site settings, SEO configurations, and general preferences.
- Analytics and Reporting: Access to detailed analytics and reports to track website performance, user activity, and other relevant metrics.
- **User Support and Communication:** Features for administrators to communicate with users, manage support requests, and respond to inquiries.

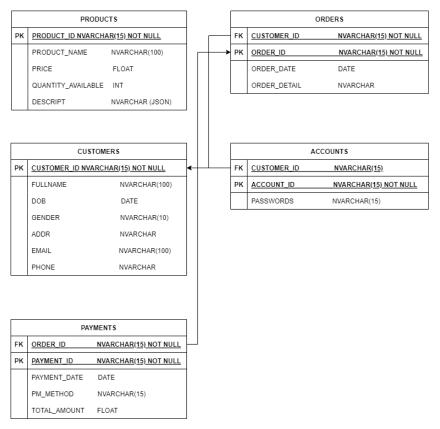


Copyright @ 2023 Biti's, All rights reserved.

Giấy CNĐKDN: 0301340497 được cấp ngày 20/01/1992, được sửa đổi lần thứ 20 ngày 28/12/2015 bởi Số Kổ hoạch và Đầu tư TPHCM

D. Database Management

Database diagram



Data Sample

masp	tensp	ngaysx	dongia
199-37-0795	Jicama	2023-05-13	257
212-21-5415	Garbage Bags - Clear	2023-05-13	103
275-96-9899	Roe - Lump Fish, Red	2023-05-10	926
405-14-3371	Bag - Clear 7 Lb	2023-05-26	333
528-28-0806	Calaloo	2023-05-05	929
531-46-9133	Sour Cream	2023-05-17	69
602-11-5874	Bread - Roll, Canadian Dinner	2023-05-03	210
784-49-0731	Corn - Mini	2023-05-11	967
828-54-9542	Beef - Rib Eye Aaa	2023-05-23	840
828-62-5972	Yoplait - Strawbrasp Peac	2023-05-03	263
NULL	NULL	NULL	NULL

	makh	hoten	gioitinh	dthoai	diachi
•	36	Wilbur Treble	Male	02/01/2003	1 Derek Lane
	11-462-5056	Modesty Wallwork	Female	09/03/2003	854 Northridge Plaza
	16-235-0489	Travers Kloisner	Male	26/05/2003	40201 Stone Corner Center
	27-602-8767	Windham Goard	Male	12/11/2003	27 Meadow Ridge Terrace
	46-519-8840	Diane-marie Riccione	Female	03/10/2003	267 Moose Place
	50-278-1936	Marnie Casey	Female	22/03/2003	0 Nancy Alley
	71-412-7316	Gabbey Ledley	Female	07/03/2003	9177 Ramsey Trail
	79-624-6188	Sydney Teeney	Male	29/11/2003	36008 Schiller Plaza
	80-420-8919	Trent Ivanchikov	Male	27/11/2003	92 Paget Park
	89-101-5097	Niki Haslegrave	Male	21/06/2003	9896 Glacier Hill Junction
	91-002-3261	Clayborne Sitford	Male	08/12/2003	90698 Merrick Trail
*	NULL	NULL	NULL	NULL	NULL

E. Public host information

1. Environment setup

Setting up the development environment for a web project involves configuring the necessary software, tools, and dependencies

• Text editor or IDE: Visual Studio Code

Version Control System: Git
Git Repository: GitHub
Node.js and npm

• Database: MySQL

• Web Server: Cloud application for hosting | Render

2. Web hosting

We deployed the website using render.com's free service, linking to the repository containing executable files and images on GitHub.

Web server:

• Render: <u>Bitis | Render.com</u>

Image CDN:

• Sirv: <u>Bitis | Sirv.com</u>

F. DEMO

Youtube video: Bitis | Demo video