

University of Science – VNUHCM  
Faculty of Technology

**MIDTERM REPORT**  
**BITI'S ECOMMERCE WEBSITE**

<b>Course</b>	<b>Web Application Development</b>
<b>Course ID</b>	CSC13002_21CLC04
<b>Authors</b>	21127072 – Nguyen Huu Khanh 21127738 – Tran Bao Ngoc
<b>Mentors</b>	M.S Nguyen Huy Khanh

## A. Self-Evaluation Document

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**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

master		
Commits on Nov 13, 2023		
change	21127738Tbngoc committed 20 hours ago	97e6fae
giay nam	21127738Tbngoc committed 20 hours ago	56ca0f9
tai cau truc thu muc	nhkhanh21 committed 20 hours ago	84a7ea6
done nav	21127738Tbngoc committed yesterday	1943d3c
navigation: dropdown update	21127738Tbngoc committed yesterday	a87db59
changes	21127738Tbngoc committed yesterday	3e2867b
products filter	21127738Tbngoc committed yesterday	7d25c2d
product colors	21127738Tbngoc committed yesterday	fb28006

## C. Features description

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### 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:

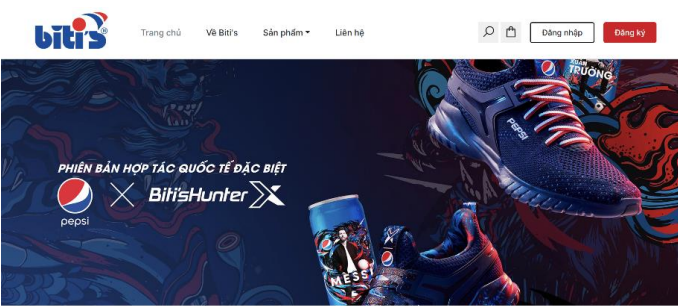
#### 1. User:

- **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.
  - Logo
  - Navigation links
  - Dropdown menu
  - 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.
  - 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.
  - Username/Email field
  - Password field
  - Forgot password link
  - 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
  - Product name
  - Product price
  - Product title
  - Product variants/options
  - Promotional badges
  - Swap images while hovering

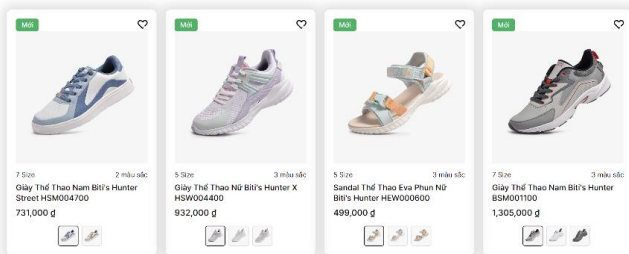
#### 2. Admin:

- **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.

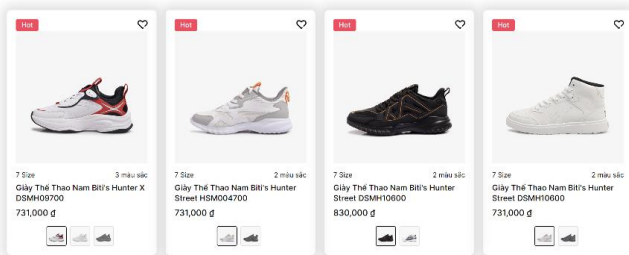


#### SẢN PHẨM MỚI



[CÒN NHIỀU LĂM. XEM THÊM](#)

#### BÁN CHẠY



[CÒN NHIỀU LĂM. XEM THÊM](#)

#### TIN TỨC BIT'S



#### VỀ BIT'S

Về Bit's  
Câu chuyện Bit's  
Bước tiến phát triển  
Hoạt động  
Liên hệ

#### THÔNG TIN

Trạng thái đơn hàng  
Hình thức giao hàng  
Hình thức thanh toán  
Hướng dẫn cách chọn size  
Chính sách đổi trả  
Chính sách bảo hành  
Chính sách khách hàng thân thiết

#### TRỢ GIÚP

Tuyển dụng  
Hệ thống cửa hàng  
Liên hệ hợp tác  
Q&A

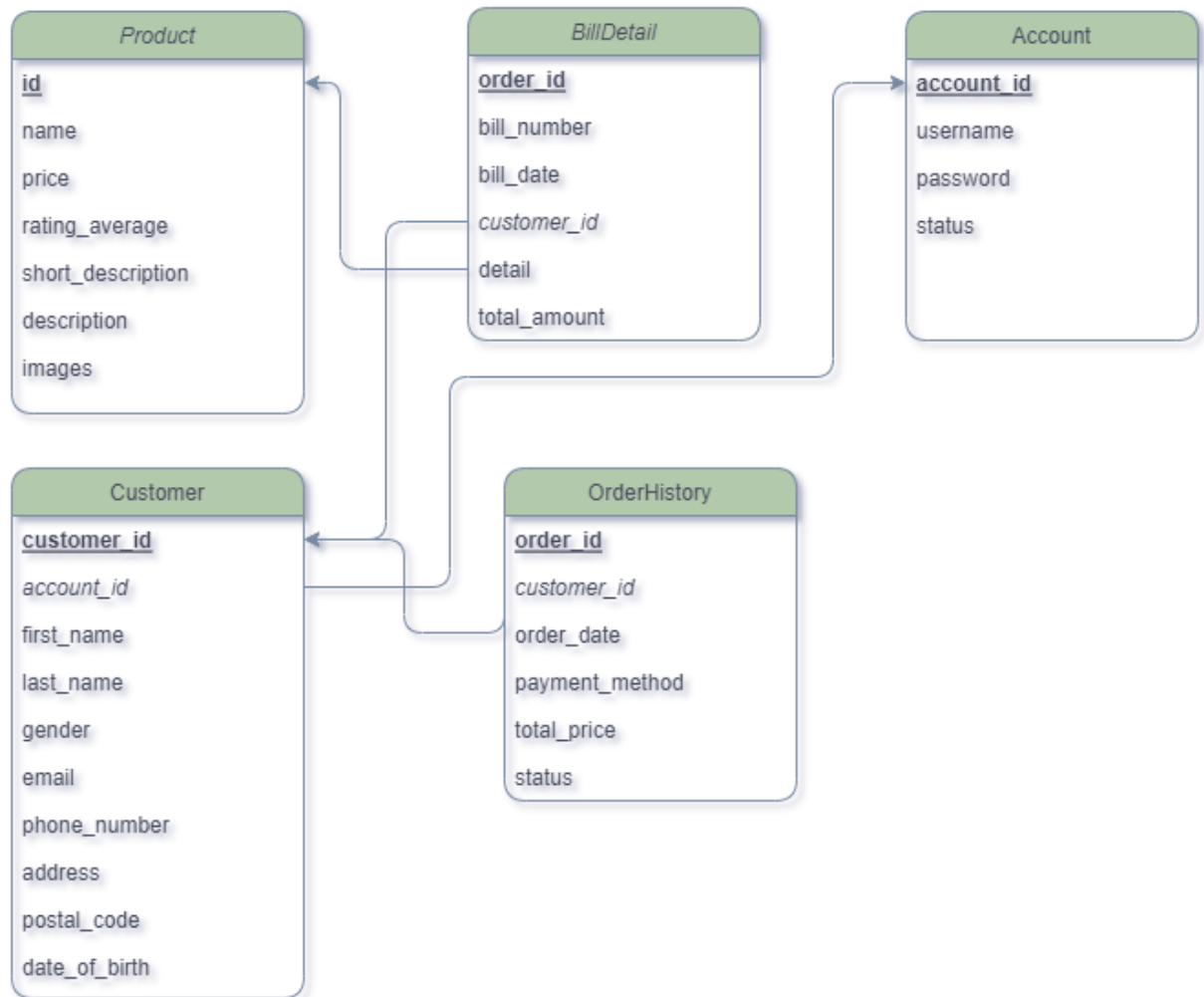


#### CÔNG TY TNHH SẢN XUẤT HÀNG TIÊU DÙNG BÌNH TIẾN

Địa chỉ: 22 Lý Chiêu Hoàng, Phường 10, Quận 6, TP. Hồ Chí Minh  
Điện thoại: (028) 38 753 443  
Email: chamsockhachhang@bits.com.vn  
Hotline: 0960158666  
Thời gian tư vấn: 8h - 21h30 các ngày trong tuần (trừ ngày Lễ, Tết)

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## Database diagram



## Data Sample

- Data sample is created by Mockaroo and stored as JSON files, each JSON file includes the data one of described data schemas above.
- Now we just store the data at localhost and
- Link of the *data sample* folder to store on github: <https://bit.ly/47KIztG>

## E. Public host information

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### 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:** MongoDB
- **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: [Bitis | Render.com](#)

Image CDN:

- Sirv: [Bitis | Sirv.com](#)

## F. DEMO

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Youtube video: [Bitis | Demo video](#)