

CCT College Dublin

Assessment Cover Page

Module Title:	Web Development
Assessment Title:	CA 2
Lecturer Name:	Dr. Shree Krishna Acharya
Student Full Name:	Rafael Valentim Ribeiro
Student Number:	2025129
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Table of Contents

INTRODUCTION	3
GITHUB REPOSITORY	4
CONCLUSION	5
REFERENCES	6

INTRODUCTION

This report presents the academic references and Git Hub Repository of 'Multi Store Eletro,' a dynamic ecommerce application created to fulfill the requirements of the CA2 Web Development assessment. The primary objective was to engineer a robust, full-stack e-commerce solution that adheres to the Model-View-Controller (MVC) architectural pattern.

The application utilizes a relational database system (MySQL) to manage dynamic content, including inventory levels and pricing, which interacts with a Node.js server environment. Special emphasis was placed on creating a responsive, accessible user interface using semantic HTML and custom CSS, ensuring functionality across different devices while maintaining secure data handling practices on the server side.

GITHUB REPOSITORY

The screenshot shows a GitHub repository page for 'ca-2-60-ravalein'. The repository is private and was created by GitHub Classroom. It has 13 commits, 0 forks, and 0 stars. The code tab is selected, showing a list of files and their commit history. The README file is also visible.

Code | **Issues** | **Pull requests** | **Actions** | **Projects** | **Security** | **Insights** | **Settings**

ca-2-60-ravalein (Private)

About

ca-2-60-ravalein created by GitHub Classroom

Activity

Custom properties

0 stars

0 watching

0 forks

Releases

No releases published

[Create a new release](#)

Packages

No packages published

[Publish your first package](#)

Code

main

Go to file

README

File	Commit Message	Time Ago
node_modules	feat: implement shopping cart func...	4 days ago
public	Refactor product controller and ro...	1 hour ago
server	Refactor product controller and ro...	1 hour ago
.DS_Store	Initial commit: starting from files d...	5 days ago
.gitignore	Refactor product listing and footer ...	4 hours ago
env-mysql	refactor: migrate from sql.js to mys...	5 days ago
package-lock.json	feat: implement shopping cart func...	4 days ago
package.json	feat: implement shopping cart func...	4 days ago

Available at: <https://github.com/CCT-Dublin/ca-2-60-ravalein>

CONCLUSION

The development of Multi Store Eletro's ecommerce has demonstrated the practical application of full-stack web development principles. By implementing a MVC architecture, the project ensures a clear separation of concerns, making the codebase modular and scalable.

The application meets all core assessment requirements, including a responsive user interface, secure authentication via bcrypt and sessions, and dynamic database interactions using MySQL. A key technical achievement was the implementation of the "market rate" price update feature, which demonstrate a complex server-side logic.

While the current iteration relies on a simplified checkout flow, the underlying database schema is fully prepared for future scalability into a complete order processing system. Overall, this project validates the ability to build a bespoke, database-driven web application from the ground up without relying on pre-built frameworks.

REFERENCES

Acharya, S.K. (2025) Web Development [Lecture notes]. Higher Diploma in Computing. CCT College Dublin.

MySQL Tutorial (2025) MySQL Tutorial. Available at: <https://www.mysqltutorial.org/> (Accessed: 7 December 2025).

Oracle (2025) MySQL Documentation. Available at: <https://dev.mysql.com/doc/> (Accessed: 7 December 2025).

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