

Capstone Project 1

Title

MegaCart - E-commerce Web Application

Objective of the Project:

The goal of the **MegaCart** project is to develop a simple, mobile-responsive e-commerce website using only HTML, CSS, and JavaScript. It aims to provide a seamless shopping experience with features like dynamic product display, user authentication, real-time cart management, and mobile-friendly design—all implemented without external libraries or frameworks.

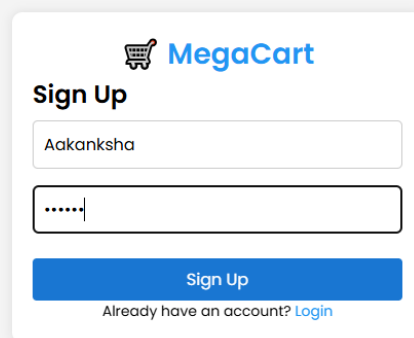
Problem Statement:


Many e-commerce websites are often heavy, slow, and lack mobile responsiveness, leading to poor user experiences. Additionally, the complexity of integrating back-end systems and maintaining real-time cart updates can be challenging. The **MegaCart** project solves these issues by:

- Offering a lightweight, fast-loading platform.
- Ensuring mobile responsiveness through simple CSS and HTML.
- Allowing real-time cart updates and product management using localStorage.

Code link :[click here](#)

Output Screenshots:

A screenshot of a web application's sign-up form. At the top, there is a shopping cart icon followed by the text "MegaCart". Below this is the heading "Sign Up". The form contains two input fields: the first is for a name, with "Aakanksha" entered, and the second is for a password, shown with dots. Below the password field is a blue button labeled "Sign Up". At the bottom of the form, there is a link that says "Already have an account? Login".

 **MegaCart**

Sign Up

Sign Up

Already have an account? [Login](#)



Essence Mascara
Lash Princess
\$9.99

[Add to Cart](#)

Eyeshadow Palette
with Mirror
\$19.99

[Add to Cart](#)

Powder Canister
\$14.99

[Add to Cart](#)

Red Lipstick
\$12.99

[Add to Cart](#)

Red Nail Polish
\$8.99



Calvin Klein CK One
\$49.99



Chanel Coco Noir Eau
De



Dior J'adore
\$89.99

Your Cart



Powder Canister

\$14.99 x = \$74.95

[Remove](#)

Red Lipstick

\$12.99 x = \$12.99

[Remove](#)

Red Nail Polish

\$8.99 x = \$8.99

[Remove](#)

Total: \$96.93


[Buy Now](#)

Welcome to MegaCart



About MegaCart


MegaCart isn't just another online shopping site—it's your one-stop destination for an extraordinary shopping experience! ✨ We bring you the best deals, quirky finds, and daily essentials, all under one cart. Powered by love for tech and coffee ☕, our mission is to make your shopping smooth, fun, and rewarding. Lorem ipsum, dolor sit amet consectetur adipisicing elit. Odio delectus aperiam impedit, atque dolorum praesentium nisi nemo quas non mollitia illum dolorem placeat aut assumenda libero dolores, molestiae a! Nisi.

 MegaCart

127.0.0.1:3000 says
Purchase successful!

HomeAboutCart (7)Logout


Your Cart



Powder Canister

\$14.99 x = \$74.95


Remove



Red Lipstick

\$12.99 x = \$12.99

Remove



Red Nail Polish

\$8.99 x = \$8.99

Remove

Total: \$96.93

Buy Now

Conclusion or Outcome:

The **MegaCart** web application effectively addresses common challenges in e-commerce platforms. It provides a smooth, responsive shopping experience and a straightforward user interface, utilizing `localStorage` for cart and user management. The project demonstrates how an e-commerce platform can be built using only front-end technologies while ensuring usability and functionality. By focusing on simplicity and responsiveness, **MegaCart** serves as a scalable foundation for future e-commerce solutions.

Capstone Project 2

Title

Portfolio Management: Interactive Stock Trading and Tracking Platform

Objective of Project

To create a standalone, user-friendly web application that allows investors to monitor their stock portfolios, execute trades, and receive investment recommendations through an intuitive interface. The project aims to deliver a fully responsive solution using only HTML, CSS, and vanilla JavaScript, with client-side data persistence and without dependencies on external frameworks or libraries.

Problem Statement

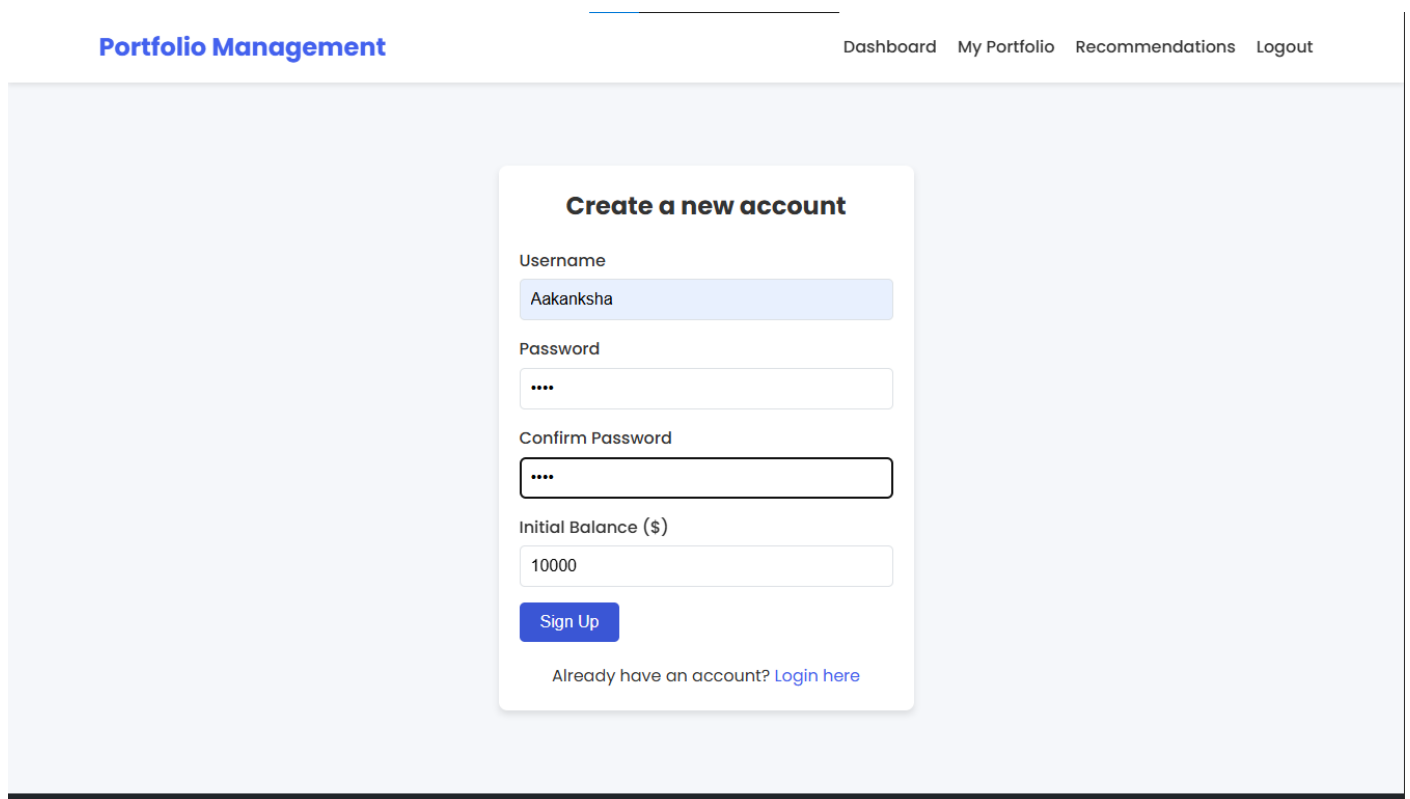
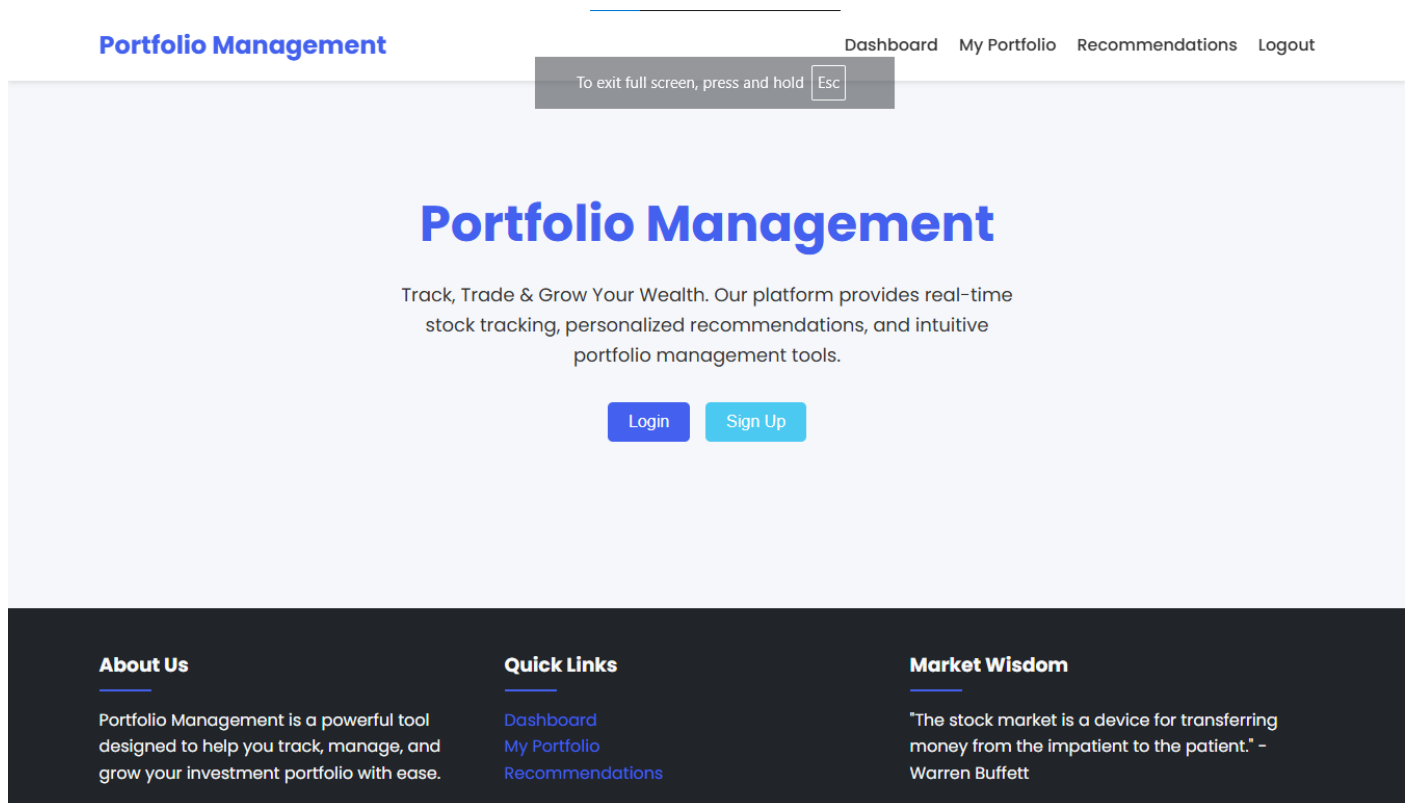
Individual investors face several challenges when managing their portfolios:

- Difficulty tracking investments across multiple platforms
- Limited access to comprehensive trading tools without subscription fees
- Lack of personalized investment recommendations
- Concerns about data privacy and security
- Need for consistent access across different devices

Current solutions in the market are often overly complex, expensive, or fail to provide a cohesive experience that combines portfolio tracking, trading functionality, and personalized insights in one accessible platform.

Code link: [click here](#)

Output Screenshots:



Available Balance

\$10,000.00

Search Stock

Enter stock symbol (e.g., AAPL)

Search

Account created successfully! Welcome to Portfolio Management.

Live Market Prices

AAPL

\$334.42

+0.92%

MSFT

\$365.85

-1.50%

GOOGL

\$428.29

-2.91%

AMZN

\$360.32

-2.48%

TSLA

\$354.06

-1.52%

META

\$345.82

NVDA

\$350.38

JPM

\$277.09

META

\$345.82

-0.38%

NVDA

\$350.38

+2.80%

JPM

\$277.09

-2.73%

Buy Stock

Stock Symbol

google

Quantity

10

Estimated Cost

\$4,997.50

Buy Now

Available Balance

\$1,579.80

Search Stock

Enter stock symbol (e.g., AAPL)

Search

Successfully purchased 10 shares of NVDA

Live Market Prices

AAPL

\$334.42

+0.92%

MSFT

\$365.85

-1.50%

GOOGL

\$428.29

-2.91%

AMZN

\$360.32

-2.48%

TSLA

\$354.06

-1.52%

META

\$345.82

NVDA

\$350.38

JPM

\$277.09

Symbol	Quantity	Current Price	Total Value	Actions
GOOGLE	10	\$495.33	\$4,953.30	<div>Sell</div>
NVDA	10	\$346.22	\$3,462.20	<div>Sell</div>
AMAZON	1	\$508.70	\$508.70	<div>Sell</div>

About Us

Portfolio Management is a powerful tool designed to help you track, manage, and grow your investment portfolio with ease.

Quick Links

[Dashboard](#)[My Portfolio](#)[Recommendations](#)

Market Wisdom

"The stock market is a device for transferring money from the impatient to the patient." - Warren Buffett

My Portfolio

Total Value: \$8,924.20

Symbol	Quantity	Current Price	Total Value	Actions
GOOGLE	10	\$495.33	\$4,953.30	<button>Sell</button>
NVDA	10	\$351.63	\$3,516.30	<button>Sell</button>
AMAZON	1	\$507.64	\$507.64	<button>Sell</button>

About Us

Portfolio Management is a powerful tool designed to help you track, manage, and grow your investment portfolio with ease.

[My Portfolio](#) [Recommendations](#)

Market Wisdom

"The stock market is a device for transferring money from the impatient to the patient." - Warren Buffett

My Portfolio

Total Value: \$4,023.94

Successfully sold 10 shares of GOOGLE for \$4,953.30

Symbol	Quantity	Current Price	Total Value	Actions
NVDA	10	\$351.63	\$3,516.30	<button>Sell</button>
AMAZON	1	\$507.64	\$507.64	<button>Sell</button>

About Us

Portfolio Management is a powerful tool designed to help you track, manage, and grow your investment portfolio with ease.

Quick Links

[Dashboard](#) [My Portfolio](#) [Recommendations](#)

Market Wisdom

"The stock market is a device for transferring money from the impatient to the patient." - Warren Buffett

Stock Recommendations

Based on market trends and your portfolio composition

Technology

NVDA

Current Price: \$347.39

-2.04% today

This Technology stock shows strong potential based on recent market trends.

Buy Now

View Charts

E-Commerce

AMZN

Current Price: \$356.43

+0.16% today

This E-Commerce stock shows strong potential based on recent market trends.

Buy Now

View Charts

Electric Vehicles

RIVN

Current Price: \$366.61

-1.48% today

This Electric Vehicles stock shows strong potential based on recent market trends.

Buy Now

View Charts

Financial

GS

Current Price: \$200.61

+1.38% today

This Financial stock shows strong potential based on recent market trends.

Buy Now

View Charts

Healthcare

PFE

Current Price: \$266.29

+0.69% today

This Healthcare stock shows strong potential based on recent market trends.

Buy Now

View Charts

Conclusion/Outcome

The Portfolio Management web application successfully delivers a comprehensive solution that addresses the identified challenges through:

1. A secure, localStorage-based authentication system with basic encryption
2. An interactive dashboard featuring live stock price updates and portfolio valuation
3. Intuitive trading interfaces for buying and selling stocks with automatic balance management
4. Sector-based stock recommendations to guide investment decisions
5. Fully responsive design ensuring seamless functionality across desktop and mobile devices

The implementation demonstrates that effective portfolio management tools can be built with fundamental web technologies, providing investors with a lightweight yet powerful platform to manage their investments independently. The application achieves its goal of combining security, functionality, and ease of use in a single, framework-free solution that runs entirely in the browser.

Capstone Project 3

Title

AutoMob-Mechanic: Client-Side Automobile Service Booking System

Objective of Project

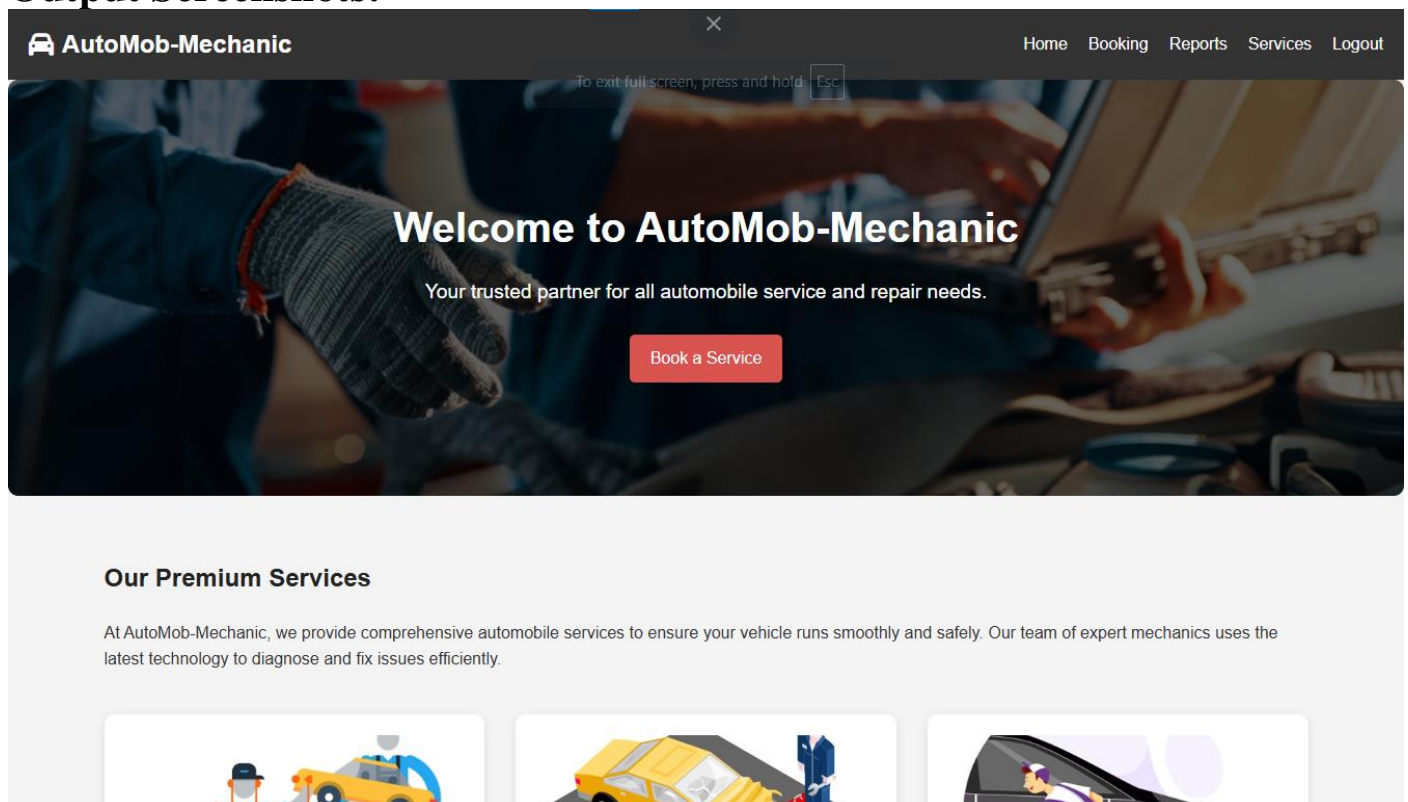
- Create a responsive web application for automobile service booking management
- Implement client-side data storage using localStorage
- Provide service visibility and booking functionality for customers
- Enable service centers to manage bookings without complex infrastructure

Problem Statement

- Small automobile service centers lack affordable booking management tools
- Customers need convenient ways to schedule services without phone calls
- Service centers require solutions that work across devices without servers
- Basic customer data and booking history need to be accessible and organized

Code link: [click here](#)

Output Screenshots:



Book a Service

Fill out the form below to schedule a service for your vehicle. Our team will confirm your appointment within 24 hours.

Full Name

Jon

Phone Number

+74 345 436543 234

Service Type

Preventive Maintenance

Vehicle Make

3

Vehicle Model

Gen 2

Preferred Date

27-04-2025

Booking Successful!

Thank you for choosing AutoMob-Mechanic. Your booking has been confirmed.

Booking Details

Name: Jon

Service: Preventive Maintenance

Date: April 27, 2025

Vehicle: 3 Gen 2



Your Bookings

View all your service bookings below:

Preventive Maintenance

Booking Date: April 27, 2025

Vehicle: 3 Gen 2

Status: Pending

AutoMob-Mechanic

Your trusted partner for all automobile service and repair needs.

Quick Links

[Home](#)
[Services](#)
[Book a Service](#)
[My Bookings](#)

Contact Us

123 Auto Street, Car City
 Phone: (123) 456-7890
 Email: info@automob-mechanic.com

Our Services

We provide a wide range of automotive services to keep your vehicle running smoothly. Choose from our comprehensive service packages below:



Preventive Maintenance

Regular maintenance services to prevent costly repairs and keep your vehicle in optimal condition.

[View Details](#)


Body Repair

Professional body repair services to restore your vehicle's appearance after accidents or damage.

[View Details](#)


Car Care

Complete car care services including cleaning, polishing, and detailing for a fresh look.

[View Details](#)



Car Care Service

Our premium car care service is designed to keep your vehicle looking its best inside and out. From basic washing to complete detailing, we offer a range of car care services to suit your needs and budget.

What's Included:

- Exterior wash and wax

Conclusion/Outcome

- Developed a complete web application using HTML, CSS, and JavaScript
- Implemented user authentication system with secure localStorage data management
- Created detailed service pages for Preventive Maintenance, Body Repair, and Car Care
- Built an intuitive booking system with confirmation and history tracking
- Designed a responsive interface that adapts to both desktop and mobile devices
- Eliminated the need for server-side processing while maintaining functionality
- Provided a cost-effective solution for service centers to digitize their booking process