



**Karunya INSTITUTE OF TECHNOLOGY AND SCIENCES**

(Declared as Deemed to be University under Sec.3 of the UGC Act, 1956)

A CHRISTIAN MINORITY RESIDENTIAL INSTITUTION

AICTE Approved & NAAC Accredited

## **A SKILL BASED EVALUATION REPORT**

**SUBMITTED BY**

**DAVID PAUL P**

**URK23CS8005**

**COURSE CODE**

**23CS2048**

**COURSE NAME**

**WEB TECHNOLOGY**

**OCTOBER 2025**



**DIVISION OF COMPUTER SCIENCE AND ENGINEERING  
SCHOOL OF COMPUTER SCIENCE AND TECHNOLOGY**

# CERTIFICATION



This certificate is awarded to

**DAVID PAUL P**

for successfully completing

**HTML Essentials**

offered by Networking Academy  
through the Cisco Networking Academy program.

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*Lynn Bloomer*

Lynn Bloomer  
Director  
Cisco Networking Academy

**03 Aug 2025**  
Completion Date



This certificate is awarded to

**DAVID PAUL P**

for successfully completing

**CSS Essentials**

offered by Networking Academy  
through the Cisco Networking Academy program.

---

*Lynn Bloomer*

Lynn Bloomer  
Director  
Cisco Networking Academy

**29 Jul 2025**  
Completion Date



This certificate is awarded to

**DAVID PAUL P**

for successfully completing

**JavaScript Essentials 1**

offered by Networking Academy  
through the Cisco Networking Academy program.

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*Lynn Bloomer*

Lynn Bloomer  
Director  
Cisco Networking Academy

**12 Sep 2025**  
Completion Date



This certificate is awarded to

**DAVID PAUL P**

for successfully completing

**JavaScript Essentials 2**

offered by Networking Academy  
through the Cisco Networking Academy program.

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*Lynn Bloomer*

Lynn Bloomer  
Director  
Cisco Networking Academy

**19 Sep 2025**  
Completion Date



# Certificate of Excellence

This is to certify that

Mr. / Ms ..... **David Paul P** .....

has successfully completed the course

**Full Stack Development with MERN**

as part of the thingQbator program

Jyoti Sharma  
CEO  
Nasscom Foundation  
CSR Partner

Rakesh Kumar Behera  
Chief Mentor  
Zikshaa  
Training Partner

The thingQbator Program is part of Cisco's CSR  
Commitments from 2018-2025



# **GROCERY DELIVERY WEB APPLICATION**

***A REAL TIME APPLICATION REPORT***

*Submitted by*

**DAVID PAUL P**

**URK23CS8005**



**DIVISION OF COMPUTER SCIENCE AND ENGINEERING**

**KARUNYA INSTITUTE OF TECHNOLOGY AND SCIENCES  
(Declared as Deemed-to-be-under Sec-3 of the UGC Act,  
1956) Karunya Nagar, Coimbatore - 641 114. INDIA**

**OCTOBER 2025**

## **ABSTRACT**

This project focuses on developing a robust and scalable Online Grocery Delivery Web Application, enabling customers to conveniently browse, select, and purchase grocery items from a digital platform. The system incorporates real-time interaction, intuitive design, and secure transaction flow to simulate a modern e-commerce environment for grocery services.

The backend architecture is developed using Node.js and Express.js, providing high-performance server-side logic, efficient routing, and non-blocking I/O operations suitable for concurrent user requests. A RESTful API layer is implemented to ensure structured, secure, and seamless data communication between client and server.

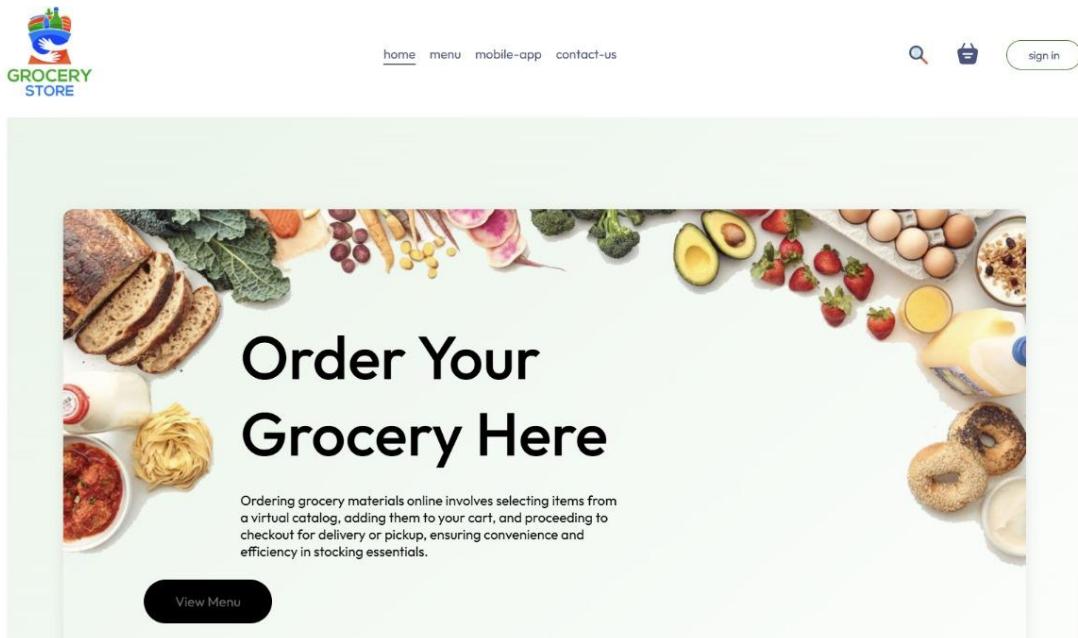
MongoDB, a NoSQL document-oriented database, is used as the core data storage solution for maintaining user profiles, product details, shopping cart data, and order records. Its flexible schema design supports rapid data retrieval and enhances application scalability for growing datasets. User authentication and authorization are secured through JSON Web Tokens (JWT) to protect user access and safeguard transaction data.

The frontend is built using React.js, emphasizing a responsive, fast-rendering, and dynamic user experience. Component-based UI development ensures reusability and maintainability of the interface. The customer interface enables product browsing, cart management, order placement, and payment processing, while the admin module facilitates product inventory management, order tracking, and business monitoring.

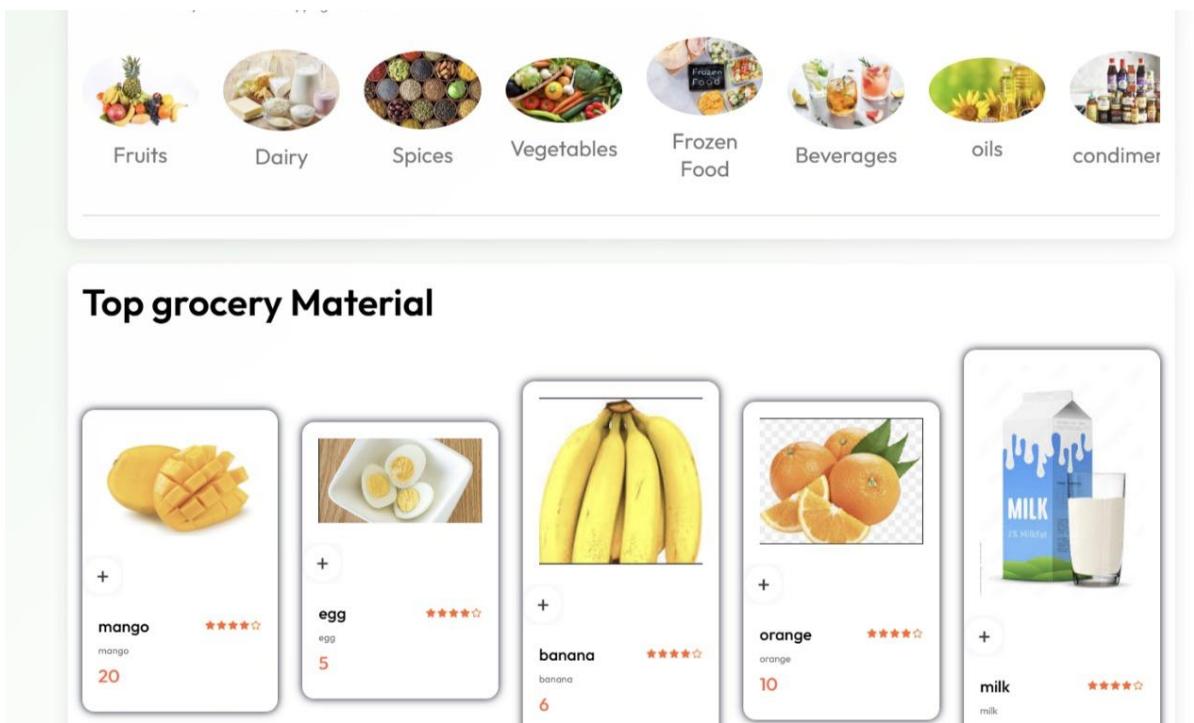
Project version control and collaboration are managed through Git and GitHub, enabling structured development, issue tracking, and continuous code updates. GitHub also ensures centralized repository hosting, accessible project scalability, and streamlined team workflows.

This application demonstrates a modern technological stack integration consisting of Node.js, Express.js, MongoDB, and React, suitable for real-world commercial deployment. It provides a reliable, secure, and responsive online grocery solution, addressing contemporary consumer needs for efficient home-delivery services while showcasing expertise in full-stack web development, database design, and cloud-based repository management.

## SAMPLE OUTPUT SCREENSHOT



The screenshot shows the homepage of a grocery store website. At the top left is the logo 'GROCERY STORE' with a stylized hand holding a globe. The top right features navigation links: 'home', 'menu', 'mobile-app', and 'contact-us'. To the right are icons for search, cart, and sign in. The main banner features a variety of food items like bread, fruits, and dairy products. The central text reads 'Order Your Grocery Here' in large, bold, black font. Below it is a descriptive text: 'Ordering grocery materials online involves selecting items from a virtual catalog, adding them to your cart, and proceeding to checkout for delivery or pickup, ensuring convenience and efficiency in stocking essentials.' A 'View Menu' button is at the bottom.



This screenshot shows a section of the grocery store's product catalog. At the top, there are eight category icons with labels: Fruits, Dairy, Spices, Vegetables, Frozen Food, Beverages, oils, and condimer. Below this is a heading 'Top grocery Material'. Five products are displayed in cards:

- Mango: An image of a mango, quantity 20, 5 stars.
- Egg: An image of boiled eggs, quantity 5, 5 stars.
- Banana: An image of bananas, quantity 6, 5 stars.
- Orange: An image of oranges, quantity 10, 5 stars.
- Milk: An image of a milk carton and glass, quantity 1, 5 stars.



[home](#) [menu](#) [mobile-app](#) [contact-us](#)



Items	Title	Price	Quantity	Total	Remove
	egg	Rs 5	2	Rs 10	X

**Cart Totals**

Subtotal	Rs 10
Delivery Fees	Rs 2
<b>Total</b>	<b>Rs 12</b>

If you have a promocode , Enter it here

[PROCEED TO CHECKOUT](#)



[home](#) [menu](#) [mobile-app](#) [contact-us](#)



### Delivery Information

<input type="text" value="First name"/>	<input type="text" value="Last name"/>
<input type="text" value="Email address"/>	
<input type="text" value="Street"/>	
<input type="text" value="City"/>	<input type="text" value="State"/>
<input type="text" value="Zip Code"/>	<input type="text" value="Country"/>
<input type="text" value="Phone"/>	

### Cart Totals

Subtotal	Rs 10
Delivery Fees	Rs 2
<b>Total</b>	<b>Rs 12</b>

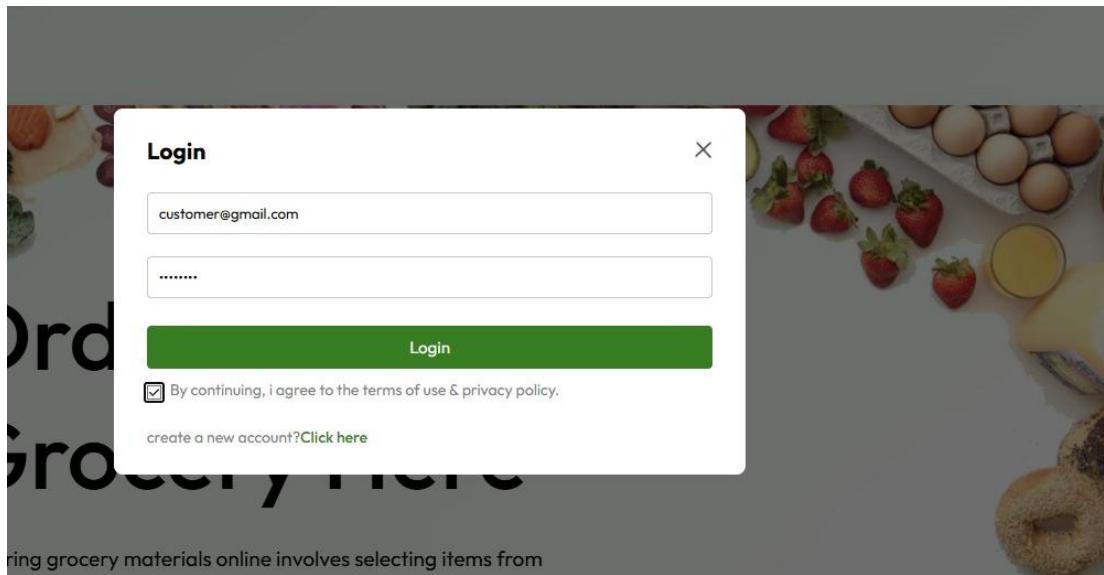
[PROCEED TO PAYMENT](#)

### Login

By continuing, i agree to the terms of use & privacy policy.

create a new account?[Click here](#)

Bring grocery materials online involves selecting items from



oring grocery materials online involves selecting items from

The image shows a web-based grocery store management system. On the left, there's a sidebar with several options: "Add Items" (disabled), "List Items" (selected and highlighted in green), and "Orders". Below the sidebar, there's an "Admin Login" section with fields for "admin" and "password". The main content area features a logo for "GROCERY STORE" with a stylized hand holding a bag. Below the logo, there are three buttons: "Add Items", "List Items", and "Orders".

The image shows the MongoDB Compass interface. On the left, there's a sidebar with various monitoring and management tools: Overview, Data Explorer (selected and highlighted in green), Real Time, Cluster Metrics, Query Insights, Performance Advisor, Online Archive, Command Line Tools, Infrastructure as Code, and Search & Vector Search. The main area shows the "grocery" database with 2 databases and 9 collections. The "foods" collection is selected and expanded, showing its storage details: STORAGE SIZE: 36KB, LOGICAL DATA SIZE: 14KB, TOTAL DOCUMENTS: 9, INDEXES TOTAL SIZE: 36KB. Below this, there are tabs for Find, Indexes, Schema Anti-Patterns, Aggregation, and Search Indexes. A search bar at the top right says "Type a query: { field: 'value' }". The "QUERY RESULTS: 1-9 OF 9" section displays 9 documents, with the first one detailed below:

```

{
  "_id": ObjectId('6903de6f3138d95035841f9b'),
  "name": "egg",
  "description": "egg",
  "price": 5,
  "image": "1761861231205image_2025-10-31_032316456.png",
  "category": "Vegetables",
  "_v": 0
}

```

## **EVALUATION SHEET**

**Reg.No : URK23CS8005**

**Name : DAVID PAUL P**

**Course code: 23CS2048**

**Course Name: Web Technology**

<b>S.No</b>	<b>Rubrics</b>	<b>Maximum Marks</b>	<b>Marks Obtained</b>
1	Online Certification Course	10	
2	Project – Case Study	30	
	Total	40	

<b>Rubrics</b>	<b>Excellent</b>	<b>Good</b>	<b>Average</b>	<b>Below Average</b>
<b>Design of Website (5 Marks)</b>				
<b>Input Validation (5 Marks)</b>				
<b>Integration of Frontend and Backend (5 Marks)</b>				
<b>Presentation and Viva (10 Marks)</b>				
<b>GitHub Repository (2 Marks)</b>				
<b>Completeness of the Report (3 Marks)</b>				

**Signature of the Faculty-in-charge**