

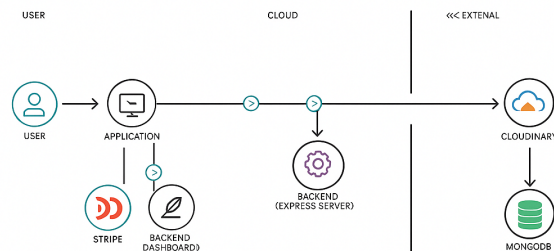
Project Design Phase-II Data Flow Diagram & User Stories

Date	7 August 2025
Team ID	PNT2025TMID10267
Project Name	Greencart-Grocery Web App
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

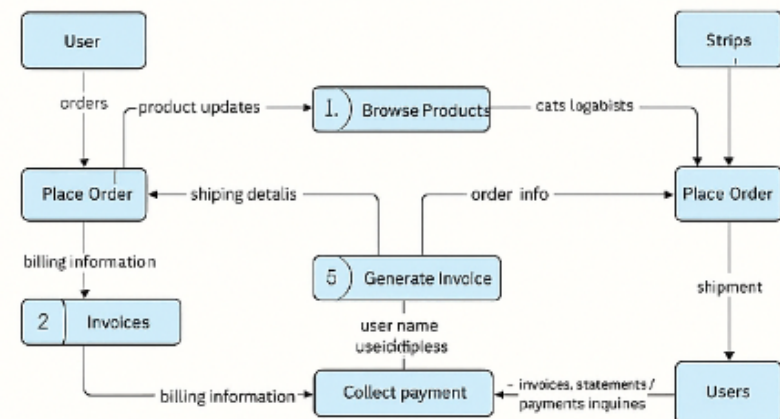
System Flow




1. User opens GreenCart website and logs in or registers (as a buyer or seller).
2. Buyers can browse product listings, filter by categories, and add items to cart.
3. Sellers can log in to manage products (add, update, delete products with image and details).
4. When placing an order:
Buyers select delivery address and payment method (Cash on Delivery or Stripe Payment Gateway).
5. Backend (Express server) validates the order, updates the database, and initiates Stripe payment if needed.
6. Stripe handles secure online payments and returns success/failure status.
7. Order status and history are updated and shown in the user dashboard.
8. All product images are stored and retrieved via Cloudinary.
9. Data is persisted in MongoDB using Mongoose ODM.

Example: DFD Level 0 (Industry Standard)

Local Setup



User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
 Customer (Mobile User)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
		USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
	Login	USN-4	As a user, I can log into the application by entering email & password	I can successfully login and access my dashboard	High	Sprint-1
	Dashboard	USN-5	As a user, I can view my profile information on dashboard	Dashboard displays my personal info and stats	High	Sprint-1
Customer (Web User)	Registration	USN-6	As a web user, I can register using desktop interface	Registration form works on desktop browsers	High	Sprint-1
	Login	USN-7	As a web user, I can logout securely	Logout clears session and redirects to login	High	Sprint-1
	Dashboard	USN-8	As a web user, I can access full-featured dashboard	Dashboard has all features optimized for desktop	High	Sprint-1
Customer Care Executive	Customer Support	USN-9	As a customer care exec, I can view all customer queries	System displays all support tickets with status	High	Sprint-2
	Reports	USN-10	As a customer care exec, I can generate support reports	System generates reports on query resolution time	Medium	Sprint-2
Administrator	User Management	USN-11	As an admin, I can view all registered users	Admin panel displays complete user list with details	High	Sprint-2
	System Management	USN-12	As an admin, I can backup system data	System allows manual and scheduled backups	High	Sprint-2