

My Project structure was organised with a separation of concerns.

- 1) Controllers - The files in this directory contain the logic for handling requests and response related to managers, products and stores.
- 2) Models – In the dao.js the file handles interactions with the MongoDB operations. In the mysqlModel.js, this file handles interactions with the MySQL database.
- 3) Routes – These files define the routes for their corresponding entities.
- 4) View – These files all contain the HTML templates for rendering the respective pages. They include embedded JavaScript for dynamic content rendering.

My app.js is the entry point for my application.

Here are some changes where I applied innovative design elements throughout my app. These modifications are evident in the embedded CSS within the views folder.

Home page original vs edited:

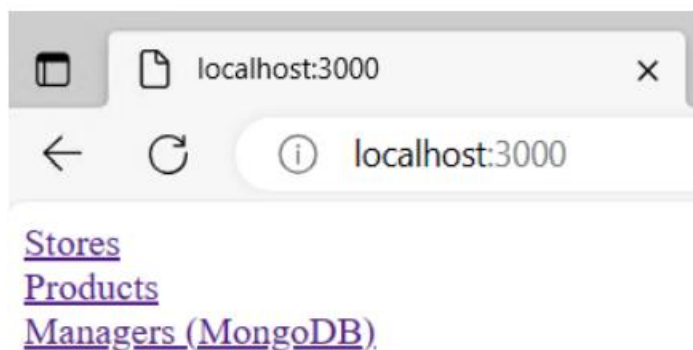
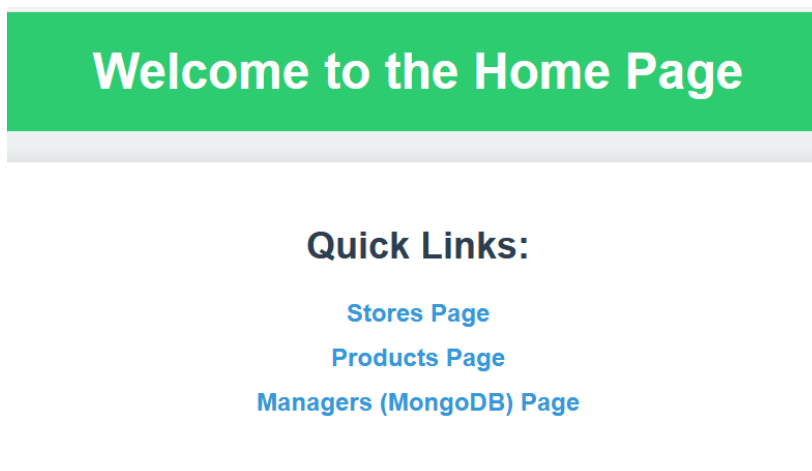


Figure 1 Main Page



Store original vs edited:

localhost:3000/stores

localhost:3000/stores

Stores

[Add Store](#)

SID	Location	Manager ID	Action
GAYBB	Galway Ballybrit	M002	Update
GAYEQ	Galway Eyre Square	M001	Update
TUAM1	Tuam	M003	Update
WHATH	Athlone, Co. Westmeath	M004	Update
WHMUL	Mullingar, Co. Westmeath	M005	Update

[Home](#)

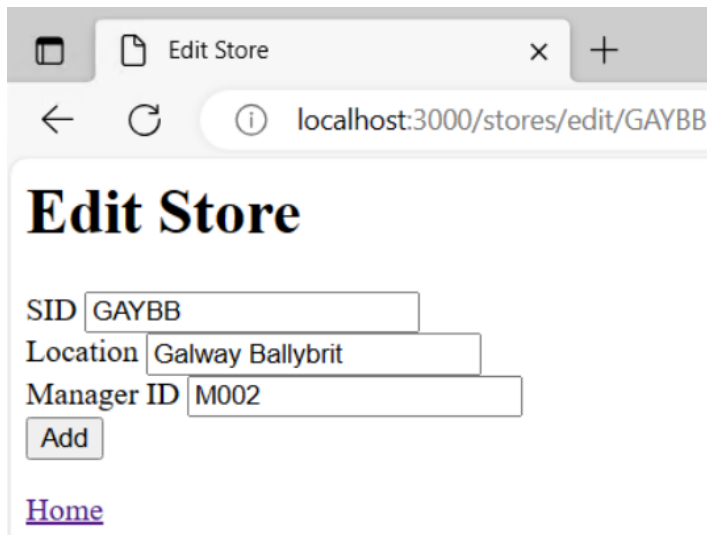
Figure 2 Stores Page

Stores Page

Back to Home

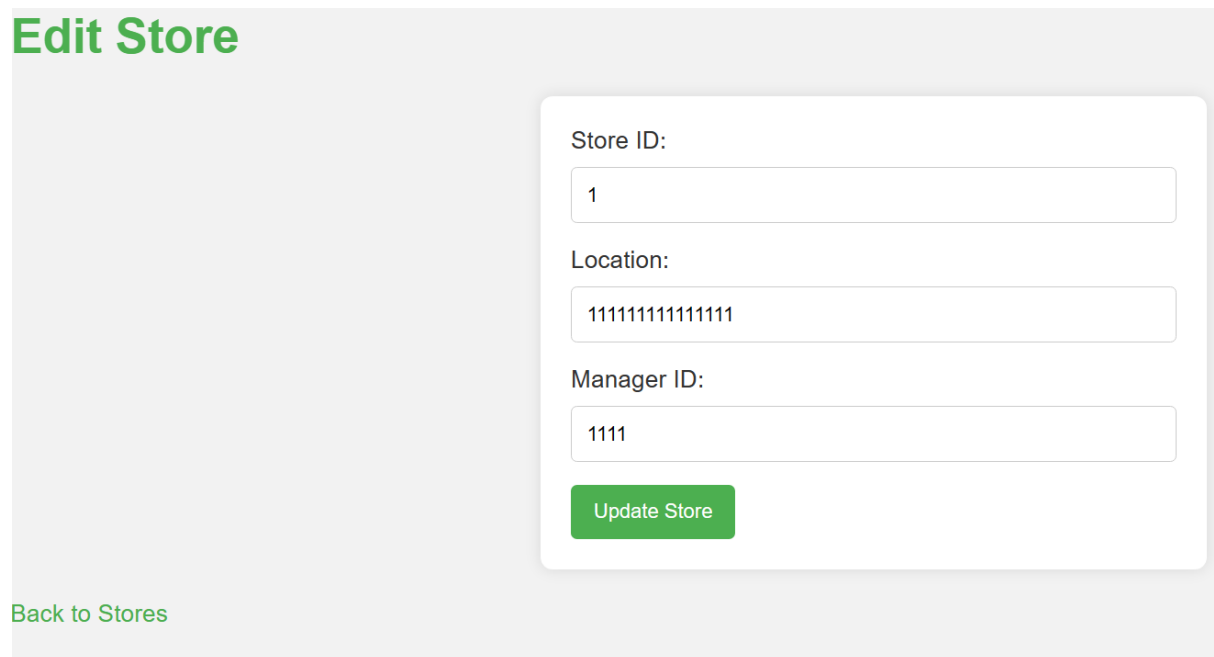
Store ID	Location	Manager ID	Actions
1	1111111111111111	1111	<div>Update</div>
11111	11111111111	3333	<div>Update</div>

Edit Store original vs edited:



A screenshot of a web browser showing the 'Edit Store' page. The browser's address bar displays 'localhost:3000/stores/edit/GAYBB'. The page has a title 'Edit Store'. Below the title, there are three input fields: 'SID' with the value 'GAYBB', 'Location' with the value 'Galway Ballybrit', and 'Manager ID' with the value 'M002'. There is an 'Add' button below these fields. At the bottom left, there is a 'Home' link.

Edit Store



A screenshot of the 'Edit Store' page after editing. The page has a green title 'Edit Store'. On the right side, there is a white form box with the following fields: 'Store ID:' with the value '1', 'Location:' with the value '1111111111111111', and 'Manager ID:' with the value '1111'. Below these fields is a green 'Update Store' button. At the bottom left of the page, there is a green link 'Back to Stores'.

StoreID: I left this as read only so it prevents the user from changing the StoreID

Location: you cant leave the field empty therefore the location must be more than 1 character.

ManagerID. Manager ID must be 4 digits. Message will pop up if you try otherwise.

Products page original vs edited:

← ↻ ⓘ localhost:3000/products

Products

Product ID	Description	Store ID	Location	Price	
CORNF	CorkFlakes 100g	GAYBB	New Location	1.15	Delete CorkFlakes 100g
CORNF	CorkFlakes 100g	GAYEQ	Galway Eyre Square	1.19	Delete CorkFlakes 100g
CORNF	CorkFlakes 100g	WHMUL	Mullingar, Co. Westmeath	1.11	Delete CorkFlakes 100g
DF5KG	Dog Food 5kg Bag				Delete Dog Food 5kg Bag
DFTIN	Dog Food 6 Tins	GAYBB	New Location	4.99	Delete Dog Food 6 Tins
DFTIN	Dog Food 6 Tins	GAYEQ	Galway Eyre Square	4.99	Delete Dog Food 6 Tins
DFTIN	Dog Food 6 Tins	TUAM1	Tuam	5.01	Delete Dog Food 6 Tins
DFTIN	Dog Food 6 Tins	WHATH	Athlone, Co. Westmeath	5.01	Delete Dog Food 6 Tins
DFTIN	Dog Food 6 Tins	WHMUL	Mullingar, Co. Westmeath	4.98	Delete Dog Food 6 Tins
LOAFB	Brown Sliced Pan				Delete Brown Sliced Pan
LOAFW	White Sliced Pan				Delete White Sliced Pan
MLK1L	Milk Full Fat 1L	GAYBB	New Location	1.42	Delete Milk Full Fat 1L
MLK1L	Milk Full Fat 1L	GAYEQ	Galway Eyre Square	1.49	Delete Milk Full Fat 1L
MLK1L	Milk Full Fat 1L	TUAM1	Tuam	1.42	Delete Milk Full Fat 1L
MLK1L	Milk Full Fat 1L	WHATH	Athlone, Co. Westmeath	1.44	Delete Milk Full Fat 1L
MLK1L	Milk Full Fat 1L	WHMUL	Mullingar, Co. Westmeath	1.45	Delete Milk Full Fat 1L
MLK2L	Milk Full Fat 2L				Delete Milk Full Fat 2L
RICEC	Rice Krispies 100g	TUAM1	Tuam	5.25	Delete Rice Krispies 100g
RICEC	Rice Krispies 100g	WHATH	Athlone, Co. Westmeath	4.84	Delete Rice Krispies 100g
RICEC	Rice Krispies 100g	WHMUL	Mullingar, Co. Westmeath	5.38	Delete Rice Krispies 100g

[Home](#)

Products Page					
Product ID	Product Description	Store ID	Location	Price	Action
CORNF	CorkFlakes 100g	GAYBB	Galway Bll	1.15	<button>Delete</button>
CORNF	CorkFlakes 100g	GAYEQ	Galway Eyre	1.19	<button>Delete</button>
CORNF	CorkFlakes 100g	WHMUL	Mullingar, Co. Westmeath	1.11	<button>Delete</button>
DF5KG	Dog Food 5kg Bag				<button>Delete</button>
DFTIN	Dog Food 6 Tins	GAYBB	Galway Bll	4.99	<button>Delete</button>
DFTIN	Dog Food 6 Tins	GAYEQ	Galway Eyre	4.99	<button>Delete</button>
DFTIN	Dog Food 6 Tins	TUAM1	Donegal	5.01	<button>Delete</button>
DFTIN	Dog Food 6 Tins	WHATH	t	5.01	<button>Delete</button>
DFTIN	Dog Food 6 Tins	WHMUL	Mullingar, Co. Westmeath	4.98	<button>Delete</button>
MLK1L	Milk Full Fat 1L	GAYBB	Galway Bll	1.42	<button>Delete</button>

Managers page original vs edited:

localhost:3000/managers

localhost:3000/managers

Managers (MongoDB)

[Add Manager \(MongoDB\)](#)

Manager ID	Name	Salary
M001	Mark Collins	50500.01
M002	Barbara O'Toole	43512.14
M003	Paddy McDonagh	51412
M004	Josie Sullivan	49444
M005	Tommy Hyde	47234
M006	Anne Mulligan	36300

[Home](#)

Figure 10 List Managers (MongoDB)

Managers

[Add Manager](#)[Back to Main Page](#)

Manager ID	Name	Salary
M002	Barbara O'Toole	43512.14
M001	Mark Collins	50500.01
M003	Paddy McDonagh	51412
M005	Tommy Hyde	47234
M006	Anne Mulligan	36300