

This project is a database driven website that will record Orders of Products to Customers from all store locations and the detailed information of Products and Stores. The internal website can be used by LuluOrange's Sales and Business Intelligence team to create, update and remove records of products, stores and sales.

Section 1: Database Outline

- lo_customers
 - Description:
 - records the details of customers we do business with
 - Attributes:
 - customer_id: int, auto_increment, unique, not NULL, PK
 - customer_email: varchar, not NULL
 - customer_firstname: varchar
 - customer_lastname: varchar
 - Relationships:
 - a 1:M relationship between lo_customers and lo_orders with customer_id as a FK inside of lo_orders
- lo_genders
 - Description:
 - records the genders of a product designed for, for example, women, men or unisex
 - Attributes:
 - gender_id: char, only 1 character, unique, not NULL, PK
 - gender: varchar, not NULL
 - Relationships:
 - a 1:M relationship between lo_genders and lo_products with gender_id as a FK inside of lo_products
- lo_activities
 - Description:
 - records the activities of our products designed for, for example yoga, workout or golf
 - Attributes:
 - activity_id: int, auto_increment, unique, not NULL, PK

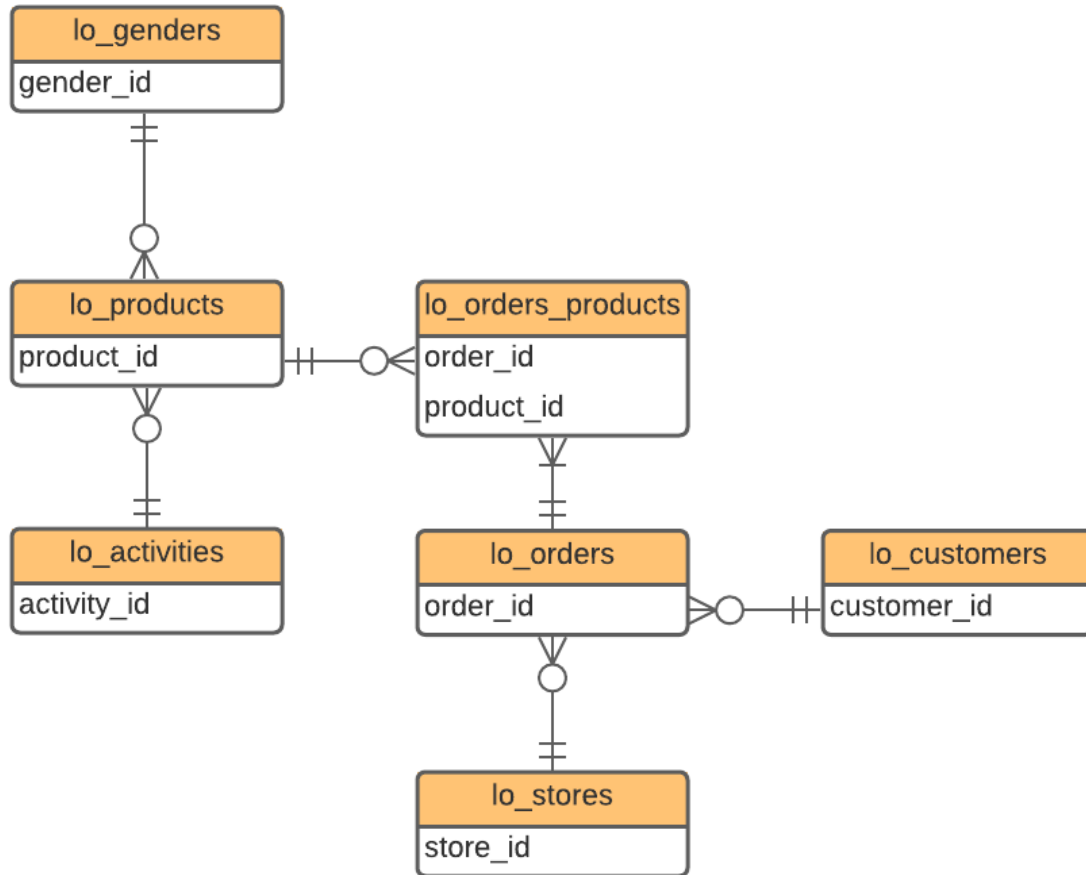
- activity_description: varchar, not NULL
- Relationships:
 - a 1:M relationship between lo_activities and lo_products with activity_id as a FK inside of lo_products
- lo_products
 - Description:
 - records the details of the products that we sell
 - Attributes:
 - product_id: int, auto_increment, unique, not NULL, PK
 - product_name: varchar, not NULL
 - product_description: varchar
 - gender_id: int, null, FK
 - activity_id: int, FK
 - product_price: DECIMAL(6,2), not NULL
 - Relationships:
 - a 1:M relationship between lo_genders and lo_products with gender_id as a FK inside of lo_products
 - a 1:M relationship between lo_activities and lo_products with activity_id as a FK inside of lo_products
 - a 1:M relationship with between lo_products and lo_orders_products with product_id as a FK inside of lo_orders_products
 - a M:M relationship between lo_products and lo_orders, using lo_orders_products as the intersection table
- lo_stores
 - Description:
 - records the details of stores that sell products to customers
 - Attributes:
 - store_id: int, auto_increment, unique, not NULL, PK
 - store_email: varchar, not NULL
 - store_phone: varchar, not NULL
 - store_country: varchar, not NULL
 - store_street: varchar, not NULL
 - store_city: varchar, not NULL
 - store_state: varchar
 - store_zip: varchar

- Relationships:
 - a 1:M relationship between lo_stores and lo_orders with store_id as a FK inside of lo_orders
- lo_orders
 - Description:
 - records the orders that are created when a store sells products to customers
 - Attributes:
 - order_id: int, auto_increment, unique, not NULL, PK
 - customer_id: int, not NULL, FK
 - store_id, int, FK
 - order_date: timestamp, auto-generated, not NULL
 - Relationships:
 - a 1:M relationship between lo_stores and lo_orders with store_id as a FK inside of lo_orders
 - a 1:M relationship between lo_customers and lo_orders with customer_id as a FK inside of lo_orders
 - a 1:M relationship between lo_orders and lo_orders_products with order_id as a FK inside of lo_orders_products
 - a M:M relationship between lo_products and lo_orders, using lo_orders_products as the intersection table

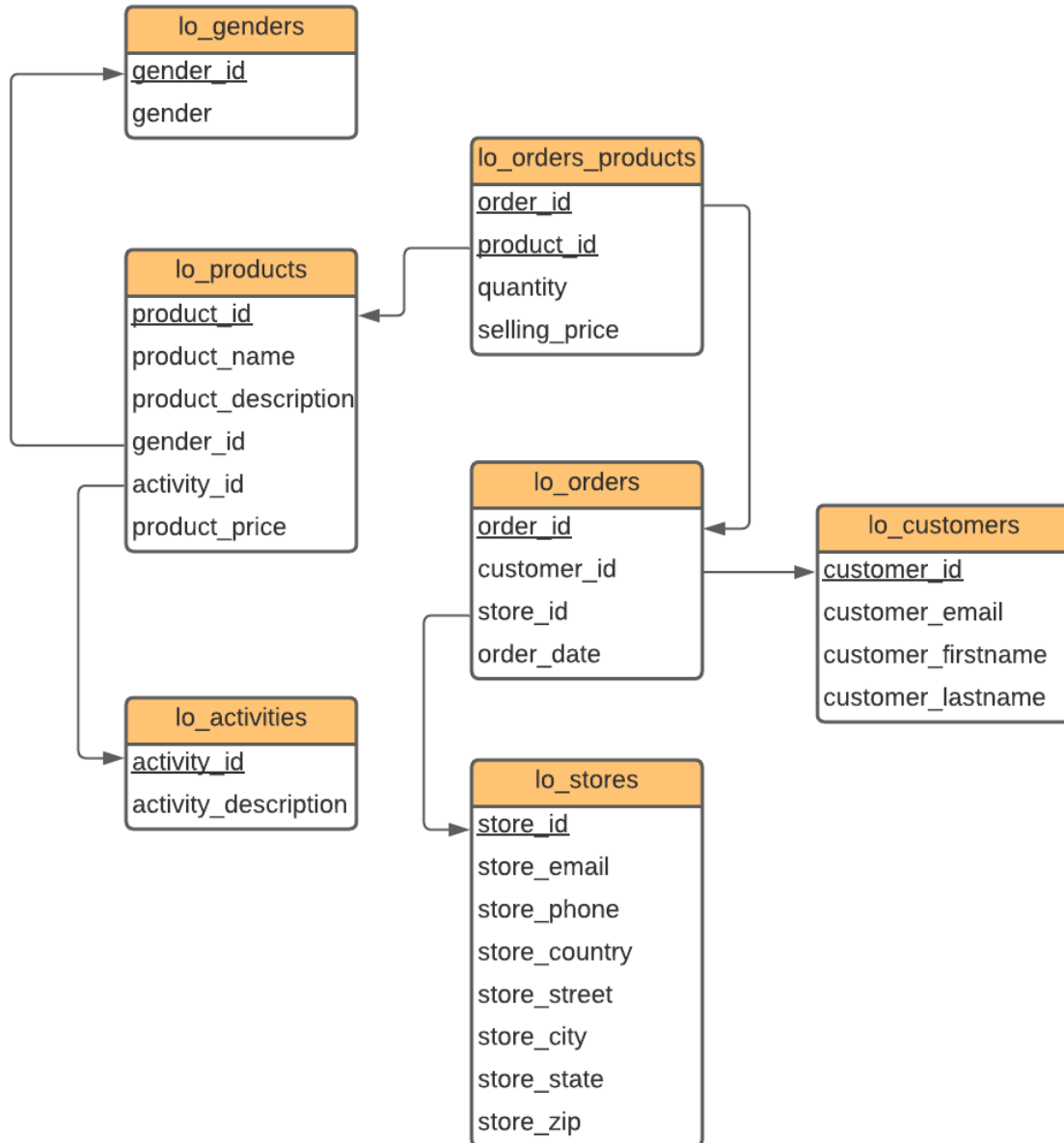
- lo_orders_products
 - Description:
 - records the list of products associated with all orders
 - Attributes:
 - order_id: int, not NULL, FK (composite primary key)
 - product_id: product_id: int, not NULL, FK (composite primary key)
 - quantity: int, not NULL
 - selling_price: DECIMAL(6,2), not NULL
 - Relationships:
 - a 1:M relationship between lo_orders and lo_orders_products with order_id as a FK inside of lo_orders_products
 - a 1:M relationship with between lo_products and lo_orders_products with product_id as a FK inside of lo_orders_products

Section 2: ERD & Schema

Entity Relationship Diagram:

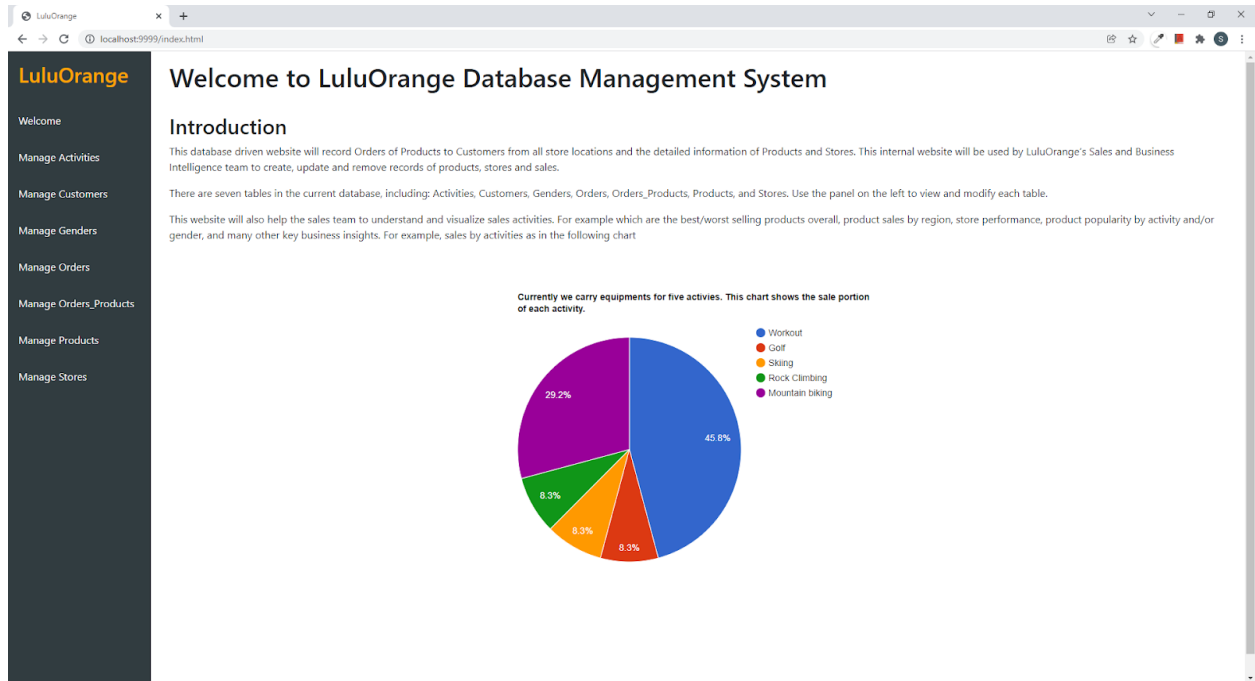


Database Schema:



Section 3: UI Screenshots

Welcome page:



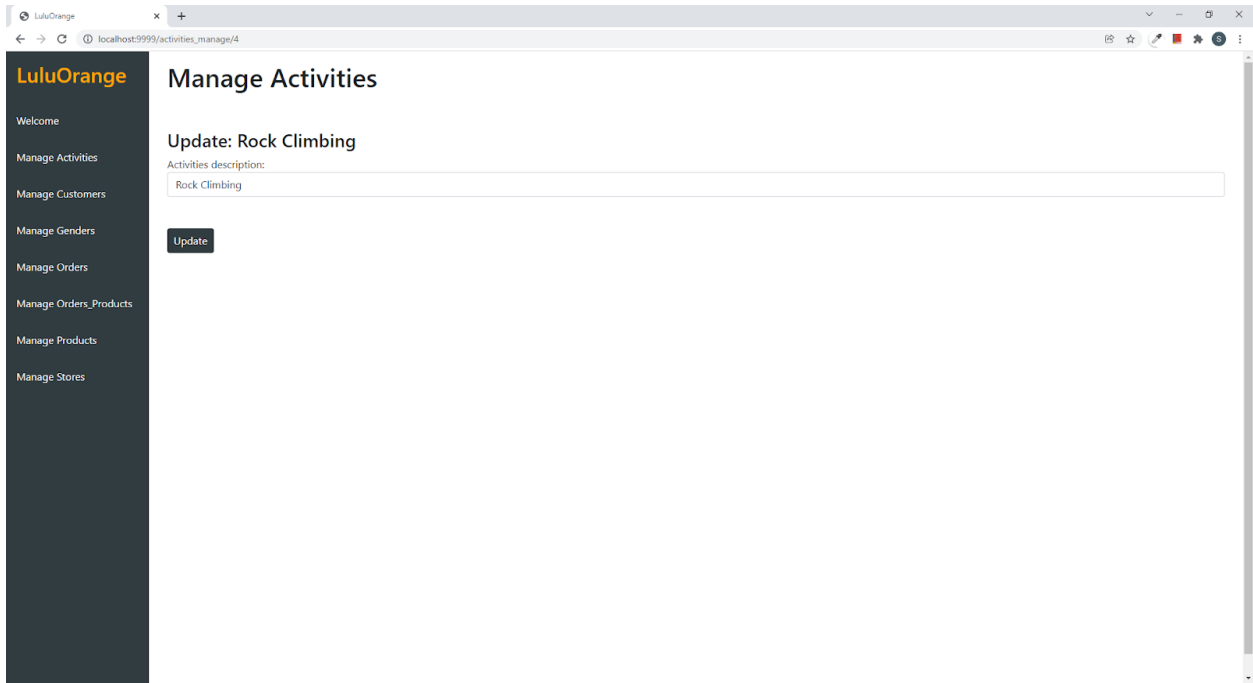
Display/Edit/Delete/Add Activities page:

The screenshot shows the 'Manage Activities' page. It features the same dark sidebar as the welcome page. The main content area has a title 'Manage Activities' and an 'Activities List' section. The list contains the following data:

activity_id	activity_description	Edit	Delete
1	Skiing	Edit	<button>Delete</button>
2	Biking	Edit	<button>Delete</button>
3	Golfing	Edit	<button>Delete</button>
4	Rock Climbing	Edit	<button>Delete</button>
5	Workout	Edit	<button>Delete</button>
6	Paddle Boarding	Edit	<button>Delete</button>

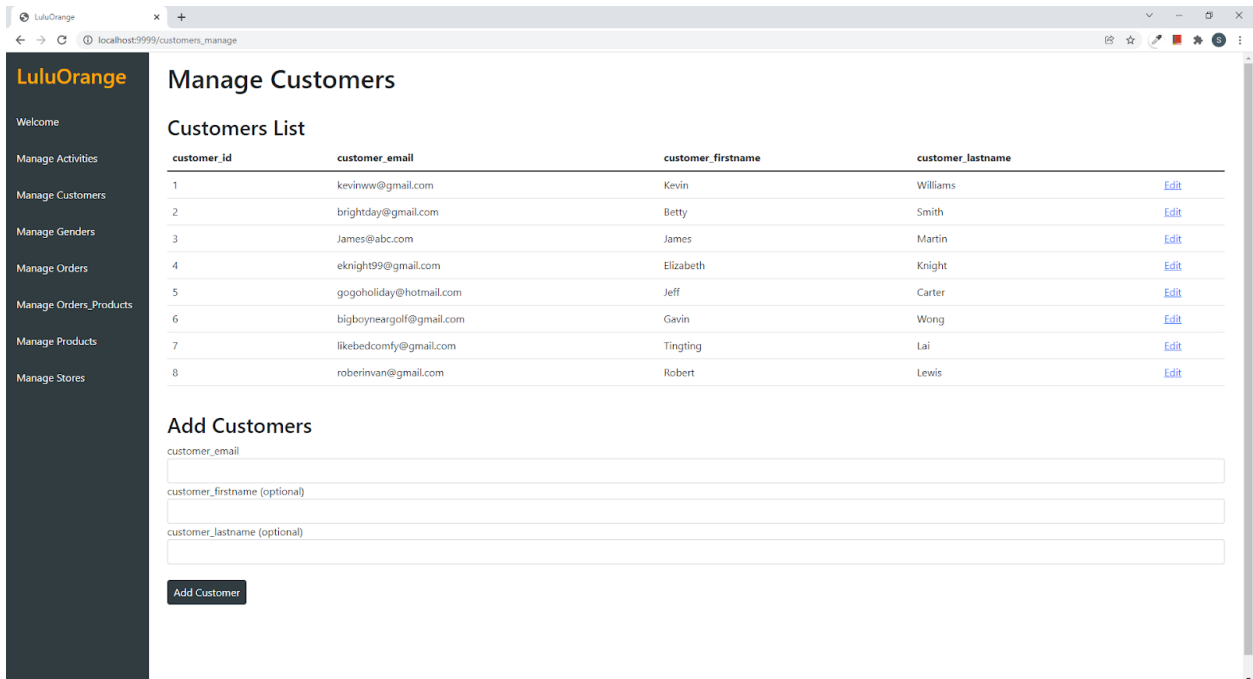
Below the list is an 'Add Activity' section with a text input field labeled 'activity_description' and an 'Add Activity' button.

Update an activity page:



The screenshot shows a web browser window with the URL `localhost:9999/activities_manage/4`. The page has a dark sidebar on the left with the LuluOrange logo and a list of navigation links: Welcome, Manage Activities, Manage Customers, Manage Genders, Manage Orders, Manage Orders_Products, Manage Products, and Manage Stores. The main content area is titled 'Manage Activities' and contains a section 'Update: Rock Climbing'. Below this, there is a text input field with the value 'Rock Climbing' and a label 'Activities description:'. At the bottom of this section is a dark 'Update' button.

Display/Edit/Add Customers page:



The screenshot shows a web browser window with the URL `localhost:9999/customers_manage`. The page has the same dark sidebar as the previous screenshot. The main content area is titled 'Manage Customers' and contains a section 'Customers List'. This section displays a table with the following data:

customer_id	customer_email	customer_firstname	customer_lastname	
1	kevinww@gmail.com	Kevin	Williams	Edit
2	brightday@gmail.com	Betty	Smith	Edit
3	James@abc.com	James	Martin	Edit
4	eknight99@gmail.com	Elizabeth	Knight	Edit
5	gogoholiday@hotmail.com	Jeff	Carter	Edit
6	bigboyneargolf@gmail.com	Gavin	Wong	Edit
7	likebedcomfy@gmail.com	Tingting	Lai	Edit
8	roberinvan@gmail.com	Robert	Lewis	Edit

Below the table is a section 'Add Customers' with three text input fields labeled 'customer_email', 'customer_firstname (optional)', and 'customer_lastname (optional)'. At the bottom of this section is a dark 'Add Customer' button.

Update a customer page:

LuluOrange

Welcome

Manage Activities

Manage Customers

Manage Genders

Manage Orders

Manage Orders_Products

Manage Products

Manage Stores

Manage Customers

Update customer_id: 7

customer_email: likebedcomfy@gmail.com

customer_firstname: Tingting

customer_lastname: Lai

Update

Display/Edit//Add Genders page:

LuluOrange

Welcome

Manage Activities

Manage Customers

Manage Genders

Manage Orders

Manage Orders_Products

Manage Products

Manage Stores

Manage Genders

Genders List

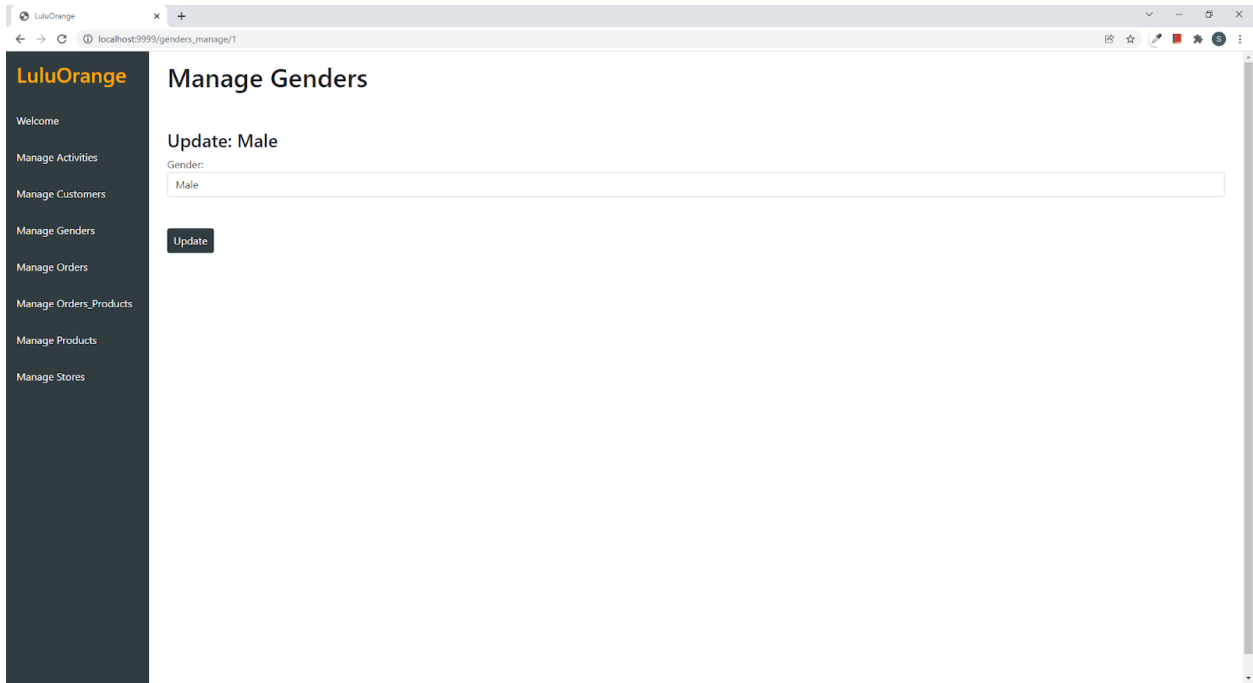
gender_id	gender	
1	Male	Edit
2	Female	Edit
3	Unisex	Edit

Add Gender

gender

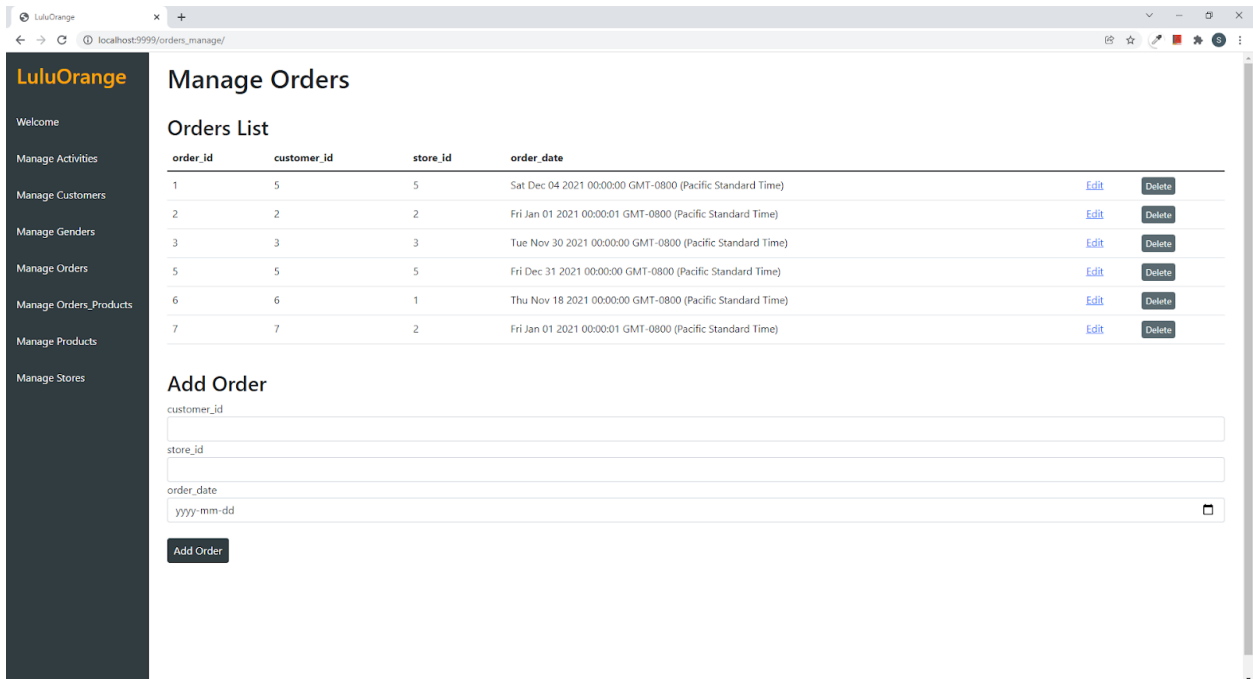
Add Gender

Update a gender:



The screenshot shows a web browser window with the URL `localhost:9999/genders_manage/1`. The page title is "Manage Genders". On the left is a dark sidebar with the "LuluOrange" logo and a list of menu items: "Welcome", "Manage Activities", "Manage Customers", "Manage Genders", "Manage Orders", "Manage Orders_Products", "Manage Products", and "Manage Stores". The main content area has the heading "Update: Male". Below this, there is a label "Gender:" followed by a text input field containing the word "Male". At the bottom of the form is a dark button labeled "Update".

Display/Edit/Delete/Add Orders page:



The screenshot shows a web browser window with the URL `localhost:9999/orders_manage/`. The page title is "Manage Orders". The sidebar is identical to the previous page. The main content area has the heading "Orders List". Below the heading is a table with the following data:

order_id	customer_id	store_id	order_date		
1	5	5	Sat Dec 04 2021 00:00:00 GMT-0800 (Pacific Standard Time)	Edit	Delete
2	2	2	Fri Jan 01 2021 00:00:01 GMT-0800 (Pacific Standard Time)	Edit	Delete
3	3	3	Tue Nov 30 2021 00:00:00 GMT-0800 (Pacific Standard Time)	Edit	Delete
5	5	5	Fri Dec 31 2021 00:00:00 GMT-0800 (Pacific Standard Time)	Edit	Delete
6	6	1	Thu Nov 18 2021 00:00:00 GMT-0800 (Pacific Standard Time)	Edit	Delete
7	7	2	Fri Jan 01 2021 00:00:01 GMT-0800 (Pacific Standard Time)	Edit	Delete

Below the table is a section titled "Add Order". It contains three input fields: "customer_id", "store_id", and "order_date". The "order_date" field has a placeholder "yyyy-mm-dd" and a calendar icon. At the bottom of this section is a dark button labeled "Add Order".

Edit an order page:

The screenshot shows a web browser window with the address bar displaying 'localhost:5999/orders_manage/1'. The page has a dark sidebar on the left with the 'LuluOrange' logo and a list of management options: Welcome, Manage Activities, Manage Customers, Manage Genders, Manage Orders, Manage Orders_Products, Manage Products, and Manage Stores. The main content area is titled 'Update Order ID: 1' and contains three input fields: 'customer_id' with the value '5', 'store_id' with the value '5', and 'order_date' with the value '2021-12-10'. An 'Update' button is located below the date field.

LuluOrange

Welcome

Manage Activities

Manage Customers

Manage Genders

Manage Orders

Manage Orders_Products

Manage Products

Manage Stores

Update Order ID: 1

customer_id:
5

store_id:
5

order_date:
2021-12-10

Update

Display/Edit/Delete/Add Orders_Products page:

LuluOrange

Welcome

Manage Activities

Manage Customers

Manage Genders

Manage Orders

Manage Orders_Products

Manage Products

Manage Stores

Manage Orders_Products

Orders_Products List

order_id	product_id	quantity	selling_price		
1	1	12	132.96	Edit	Delete
1	2	3	210	Edit	Delete
2	1	2	264	Edit	Delete
2	15	2	9999.99	Edit	Delete
3	9	1	889.99	Edit	Delete
5	11	1	587.98	Edit	Delete
6	12	2	2895	Edit	Delete
7	13	1	1999.99	Edit	Delete

Add Order_Product

Choose order_id

Choose product_id

quantity

selling_price

Add Order_Product

LuluOrange

Welcome

Manage Activities

Manage Customers

Manage Genders

Manage Orders

Manage Orders_Products

Manage Products

Manage Stores

Manage Orders_Products

Orders_Products List

order_id	product_id	quantity	selling_price		
1	1	12	132.96	Edit	Delete
1	2	3	210	Edit	Delete
2	1	2	264	Edit	Delete
2	15	2	9999.99	Edit	Delete
3	9	1	889.99	Edit	Delete
5	11	1	587.98	Edit	Delete
6	12	2	2895	Edit	Delete
7	13	1	1999.99	Edit	Delete

select product

SMITH Snow Helmet

SMITH Snow Goggles

Salomon S/Force 7 Skis + M11 GW Bindings

CALLAWAY WARIBIRD GOLF CLUB SE

TaylorMade SIM Max Irons

Callaway Women's Epic Max Driver

MIRROR Basic

Marcy Smith Machine / Cage System with Pull-Up Bar and Landmine Station

Petzl GRIGRI® Assisted Braking Belay Device

La Sportiva Finsale Climbing Shoes

Black Diamond 9.9mm Non-Dry Rope

MIRROR Weights

MIRROR Ankle Weights

select product

quantity

selling_price

Add Order_Product

Update an order_product:

The screenshot shows a web browser window with the URL `localhost:9999/orders_products_manage/5,11`. The page has a dark sidebar on the left with the 'LuluOrange' logo and a list of navigation links: Welcome, Manage Activities, Manage Customers, Manage Genders, Manage Orders, Manage Orders_Products, Manage Products, and Manage Stores. The main content area is titled 'Update Order_Product:' and contains the text 'Update: order id 5 and product id 11'. Below this, there are two input fields: 'quantity:' with the value '1' and 'selling_price:' with the value '587.98'. A blue 'Update' button is positioned below the input fields.

Display/Edit/Delete/Add/Filter Products page:

The screenshot shows a web browser window with the URL `localhost:9999/products_manage/filter/1`. The page has the same dark sidebar as the previous screenshot. The main content area is titled 'Manage Products' and includes a 'Filter Product by Activity:' section with a dropdown menu set to 'select activity' and a blue 'filter' button. Below this is a 'Products List' section containing a table with the following data:

product_id	product_name	product_description	gender_id	activity_id	product_price	
1	SMITH Snow Helmet	The Smith Maze ski and snowboard helmet makes sure you have the latest safety innovations including MIPS™ for exploring the whole mountain. And because no amount of technology will help you if you don't wear your helmet, it features our lightest-weight de	1	1	132.99	Edit Delete
2	SMITH Snow Goggles	The Smith Squad MAG™ combines the ease of the best-in-class Smith MAG™ interchangeable system with the iconic design of the semi-frameless Squad. The MAG™ system features six magnetic contact points and two locking mechanisms, a simple push lever releases	1	1	210	Edit Delete
8	Salomon S/Force 7 Skis + M11 GW Bindings	Are you a carving connoisseur who demands a clean corduroy canvas on which to paint your masterpiece? The Salomon S/Force 7 Skis + M11 GW Bindings should be top of your list. These carving specialists are smooth, stable, and deliciously grippy, with a ful	2	1	499.99	Edit Delete

Below the table is an 'Add Product' section with input fields for 'product_name', 'product_description', 'gender_id (optional)', 'activity_id', and 'product_price'. A blue 'Add Product' button is located at the bottom of this section.

Update a product page:

LuluOrange

Welcome

Manage Activities

Manage Customers

Manage Genders

Manage Orders

Manage Orders_Products

Manage Products

Manage Stores

Update Product

Update Product ID: 11

product_name:
Callaway Women's Epic Max Driver

product_description:
The Epic Max is about to change the industry forever, combining max ball speed (thanks to the new Jailbreak AI Speed Frame) and maximum forgiveness due to the high MOI and adjustable weighting.

gender_id:
2

activity_id:
3

product_price:
587.97

[Update](#)

Display/Edit/Add Stores page:

LuluOrange

Welcome

Manage Activities

Manage Customers

Manage Genders

Manage Orders

Manage Orders_Products

Manage Products

Manage Stores

Manage Stores

Stores List

store_id	store_email	store_phone	store_street	store_city	store_state	store_country	store_zip	
1	seattle@luluorange.com	206-855-6565	6005 Pine St Space	Seattle	WA	USA	98500	Edit
2	van@luluorange.com	604-874-1234	855 Robson St	Vancouver	BC	Canada	V8B 6Y4	Edit
3	toronto@luluorange.com	416-999-5678	318 Queen St W, Toronto	Toronto	ON	Canada	M5V 2A5	Edit
4	sf@luluorange.com	415-999-9877	845 Market St	San Francisco	CA	USA	94100	Edit
5	portland@luluorange.com	503-888-5833	9585 Southwest Washington Square Road	Portland	OR	USA	97225	Edit

Add Store

store_email

store_phone

store_street

store_city

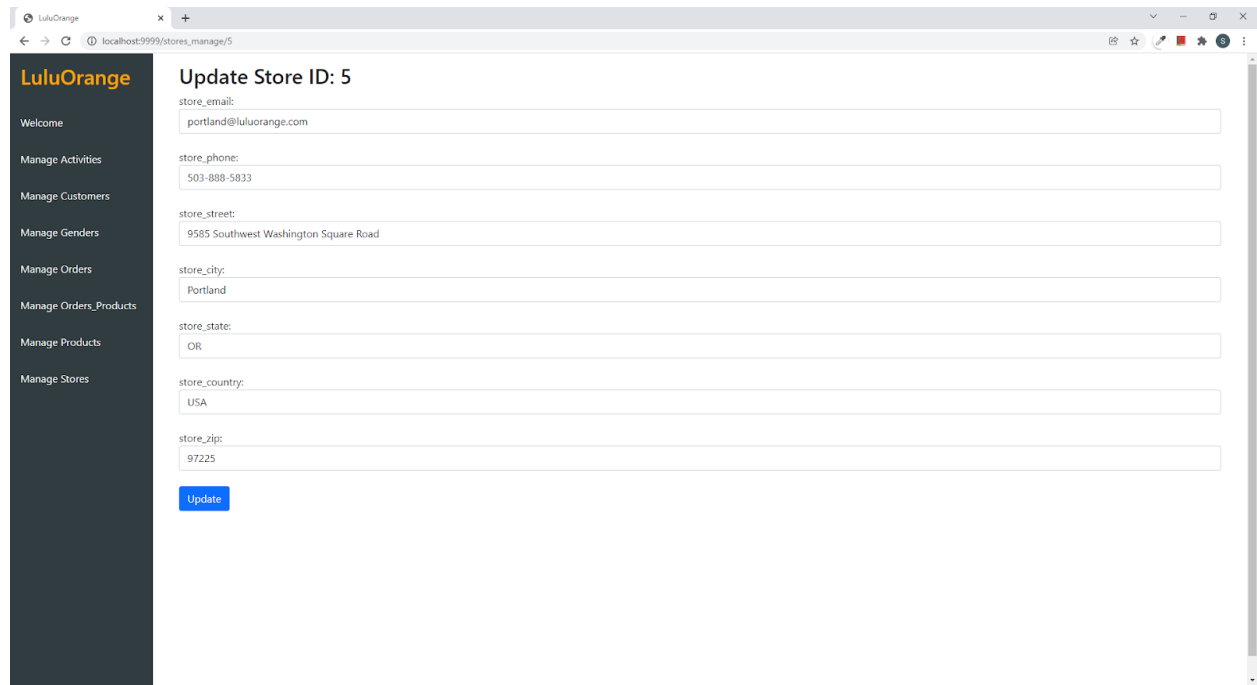
store_state

store_country

store_zip

[Add Store](#)

Edit a store page:



The screenshot shows a web browser window with the address bar displaying 'localhost:9999/stores_manage/5'. The page title is 'Update Store ID: 5'. On the left is a dark sidebar with the 'LuluOrange' logo and a list of navigation links: 'Welcome', 'Manage Activities', 'Manage Customers', 'Manage Genders', 'Manage Orders', 'Manage Orders_Products', 'Manage Products', and 'Manage Stores'. The main content area contains a form with the following fields and values:

- store_email: portland@luluorange.com
- store_phone: 503-888-5833
- store_street: 9585 Southwest Washington Square Road
- store_city: Portland
- store_state: OR
- store_country: USA
- store_zip: 97225

At the bottom of the form is a blue 'Update' button.