# Project API - DAO Layer Overview

## CustomerDAO Methods

* insertCustomer(String name, String email, String phone) – Inserts a new customer into the database.
* getAllCustomers() – Retrieves all customers ordered by name.
* getCustomerById(int id) – Fetches a specific customer by their ID.
* updateCustomer(Customer customer) – Updates the given customer’s details.
* deleteCustomer(int id) – Deletes a customer by their ID.
* searchCustomers(String searchTerm) – Searches customers by name (LIKE query).

## ProductDAO Methods

* insertProduct(String name, double price, int stock, int categoryId) – Inserts a new product.
* getAllProducts() – Fetches all products with category names.
* getProductById(int id) – Fetches a product by ID.
* updateProduct(Product product) – Updates product details.
* deleteProduct(int id) – Deletes a product by ID.
* searchProducts(String searchTerm) – Searches products by name.

## InvoiceDAO Methods

* createInvoice(int customerId, List<InvoiceItem> items) – Creates an invoice and inserts all associated items in a transaction.
* getInvoices() – Retrieves all invoices (to be implemented if needed).