

eDeliver Web Application

In today's fast-paced world, finding time to prepare a nutritious meal can be a challenge. That's where eDeliver comes in – an online food ordering application designed to offer competitive prices and an exceptional user experience. This README provides a detailed guide on how to set up and use the eDeliver Web Application.

Features

The eDeliver Web Application offers a wide range of features to help businesses manage various aspects of their operations efficiently:

1. **Customer Management:** Easily add, update, and delete customer information, ensuring a seamless customer experience.
2. **Inventory Management:** Keep a close eye on your inventory items, including stock levels and pricing, to ensure efficient order fulfillment.
3. **Order Management:** Streamline the process of managing customer orders, from order creation to fulfillment.
4. **User Authentication:** Ensure the security of your application with a robust login and authentication system for both administrators and staff members.
5. **Role-Based Access Control:** Define roles and permissions for different user types, ensuring that the right people have access to the right features and data.
6. **Thymeleaf Templates:** Utilizes Thymeleaf, a server-side Java template engine, to create dynamic HTML templates that enhance the user interface.
7. **Database Integration:** Seamlessly integrated with MySQL for efficient data storage and retrieval.

Technologies Used

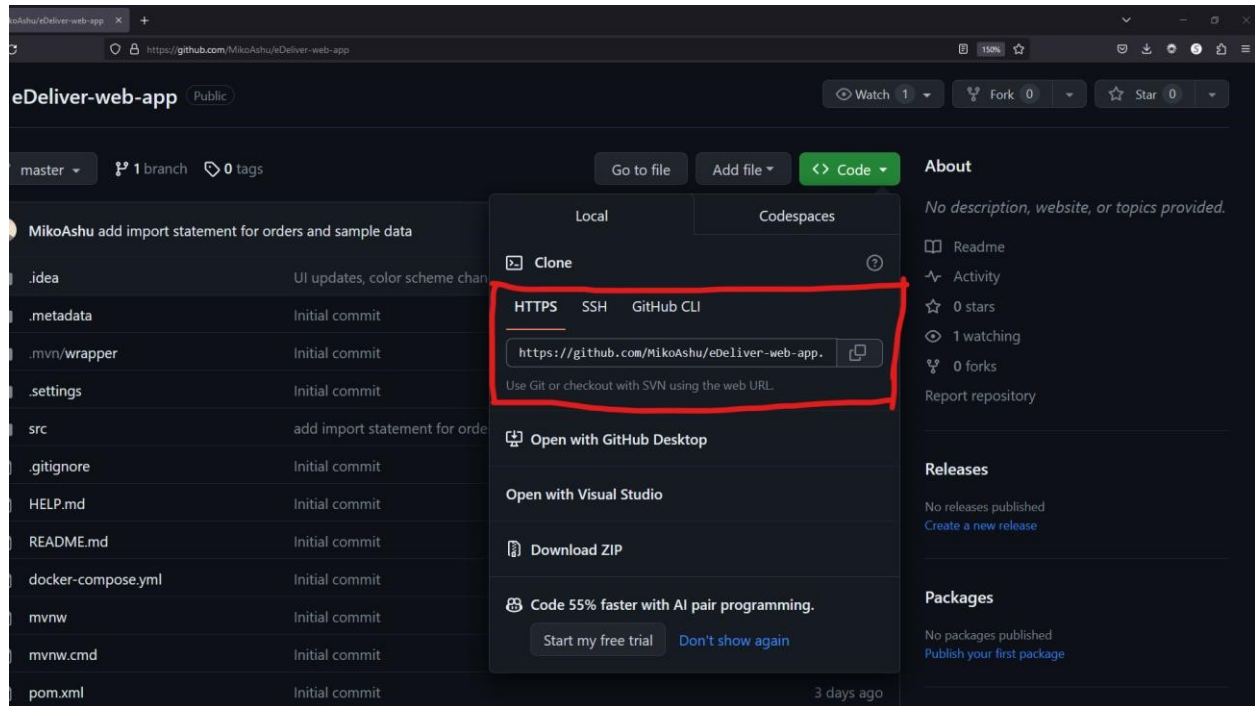
The eDeliver Web Application is built using the following technologies:

- **Spring Boot:** This forms the backbone of the backend, providing a solid framework for building Java-based web applications.
- **Thymeleaf:** The server-side Java template engine used to generate dynamic HTML content, ensuring a responsive and interactive user interface.
- **MySQL:** A powerful relational database management system utilized for efficient data storage and retrieval.
- **IDE/Tool:** Developed using IntelliJ for coding and project management.

Installation

To set up and run the eDeliver Web Application, follow these steps:

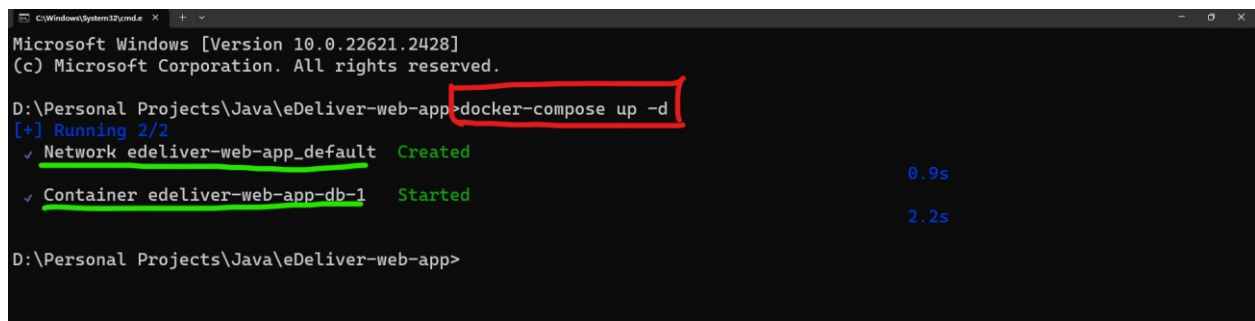
1. Clone the Repository: Start by cloning this repository to your local machine.



2. Run the MySQL Server:

- Open a terminal window in the project directory.
- Run the following command to start the MySQL server using Docker Compose:

docker-compose up -d



You can check the status of the MySQL server with:

docker-compose ps

```
C:\Windows\System32\cmd.e x + v
D:\Personal Projects\Java\edelivery-web-app>docker-compose ps
NAME                IMAGE                COMMAND                  SERVICE    CREATED        STATUS               PORTS
edelivery-web-app-db-1  mysql               "docker-entrypoint.s..." db          2 minutes ago  Restarting (1) 5 seconds ago
```

To stop the MySQL server, use the following command:

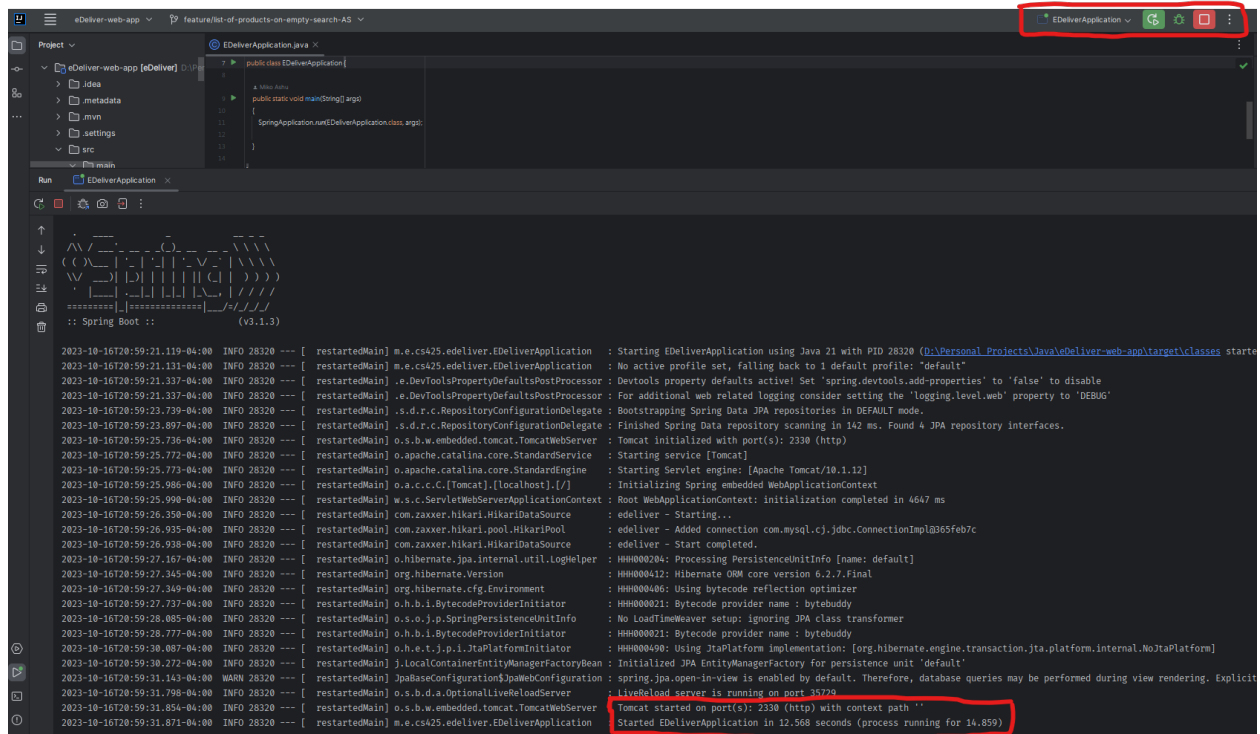
docker-compose down

```
C:\Windows\System32\cmd.e x + v
D:\Personal Projects\Java\edelivery-web-app>docker-compose down
[+] Running 2/2
✓ Container edelivery-web-app-db-1    Removed
✓ Network edelivery-web-app_default  Removed
D:\Personal Projects\Java\edelivery-web-app>
```

2. Create Sample Products: Import sample products into the application by using the *import.sql* file provided.

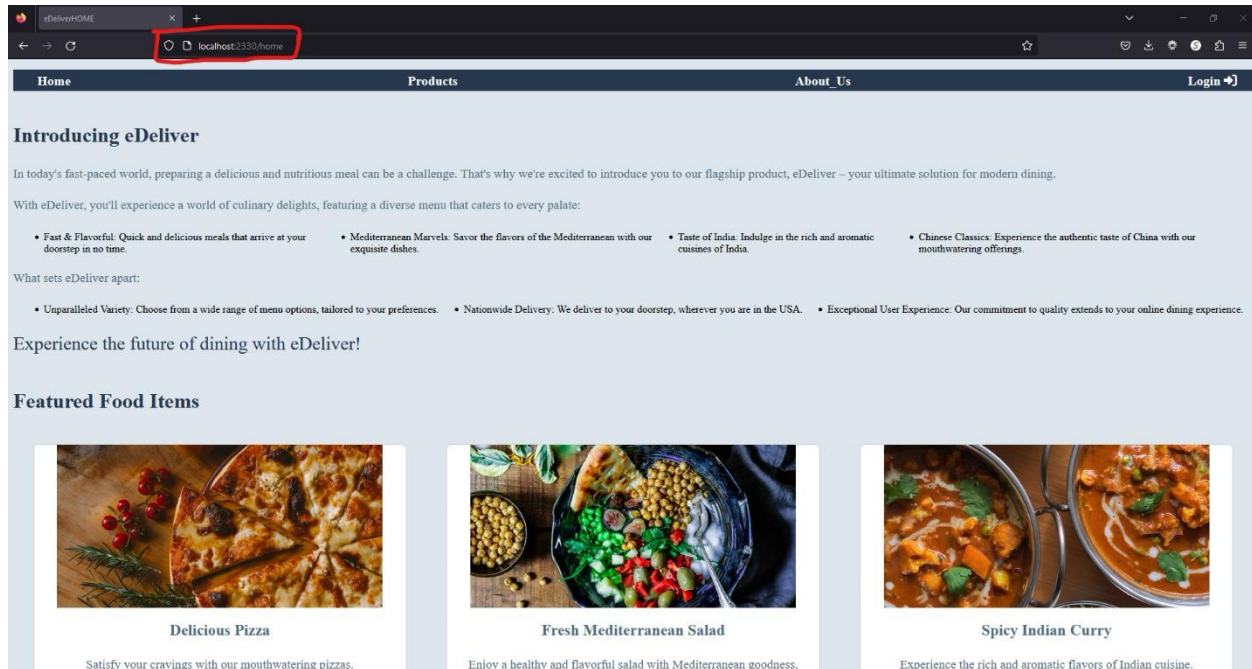
3. Run the Project:

- Execute the main method in *EDeliverApplication.java* to start the application.
- Alternatively, you can right-click on the project in your IDE and select "Run As" > "Spring Boot App."

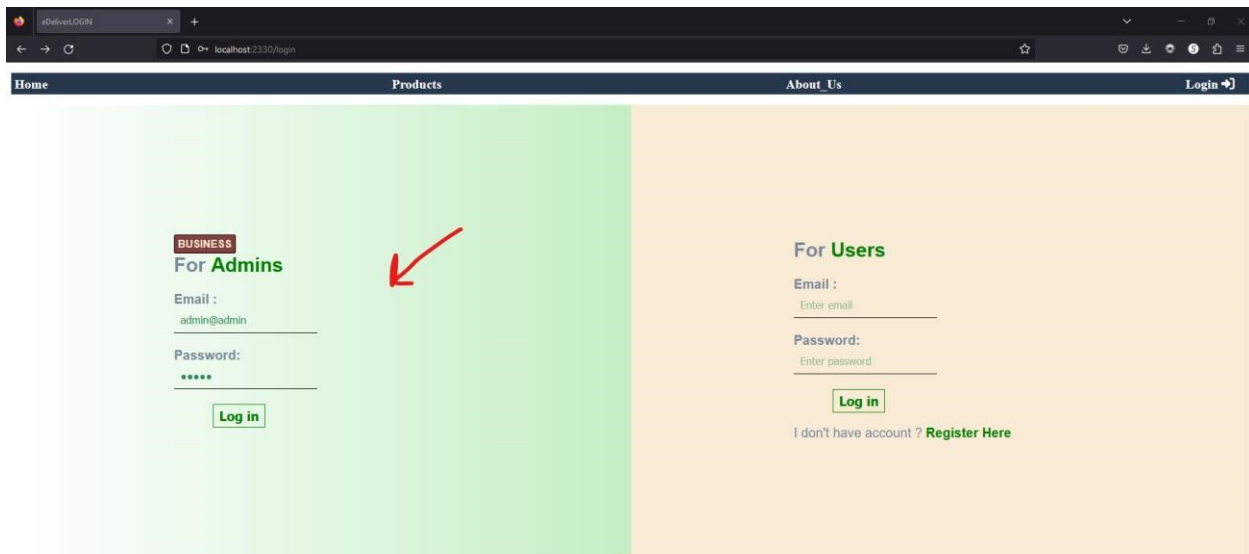


```
2023-10-16T20:59:21.119-04:00 INFO 28320 --- [ restartedMain] m.e.cs425.edeliver.EDeliverApplication : Starting EDeliverApplication using Java 21 with PID 28320 (D:\Personal Projects\Java\edDeliver-web-app\target\classes started
2023-10-16T20:59:21.131-04:00 INFO 28320 --- [ restartedMain] m.e.cs425.edeliver.EDeliverApplication : No active profile set, falling back to 1 default profile: "default"
2023-10-16T20:59:21.337-04:00 INFO 28320 --- [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : DevTools property defaults active! Set 'spring.devtools.add-properties' to 'false' to disable
2023-10-16T20:59:21.337-04:00 INFO 28320 --- [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : For additional web related logging consider setting the 'logging.level.web' property to 'DEBUG'
2023-10-16T20:59:23.739-04:00 INFO 28320 --- [ restartedMain] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in DEFAULT mode.
2023-10-16T20:59:23.897-04:00 INFO 28320 --- [ restartedMain] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 142 ms. Found 4 JPA repository interfaces.
2023-10-16T20:59:25.736-04:00 INFO 28320 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 2330 (http)
2023-10-16T20:59:25.772-04:00 INFO 28320 --- [ restartedMain] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2023-10-16T20:59:25.773-04:00 INFO 28320 --- [ restartedMain] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/10.1.12]
2023-10-16T20:59:25.986-04:00 INFO 28320 --- [ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2023-10-16T20:59:25.990-04:00 INFO 28320 --- [ restartedMain] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 4647 ms
2023-10-16T20:59:26.358-04:00 INFO 28320 --- [ restartedMain] com.zaxxer.hikari.HikariDataSource : edeliver - Starting...
2023-10-16T20:59:26.935-04:00 INFO 28320 --- [ restartedMain] com.zaxxer.hikari.pool.HikariPool : edeliver - Added connection com.mysql.cj.jdbc.ConnectionImpl@365feb7c
2023-10-16T20:59:26.935-04:00 INFO 28320 --- [ restartedMain] com.zaxxer.hikari.HikariDataSource : edeliver - Start completed.
2023-10-16T20:59:27.167-04:00 INFO 28320 --- [ restartedMain] org.hibernate.Version : HH0000204: Processing PersistenceUnitInfo [name: default]
2023-10-16T20:59:27.345-04:00 INFO 28320 --- [ restartedMain] org.hibernate.Version : HH0000412: Hibernate ORM core version 6.2.7.Final
2023-10-16T20:59:27.345-04:00 INFO 28320 --- [ restartedMain] org.hibernate.cfg.Environment : HH0000406: Using bytecode reflection optimizer
2023-10-16T20:59:27.737-04:00 INFO 28320 --- [ restartedMain] o.h.b.i.BytecodeProviderInitiator : HH0000221: Bytecode provider name: bytebuddy
2023-10-16T20:59:28.085-04:00 INFO 28320 --- [ restartedMain] o.s.o.j.p.SpringPersistenceUnitInfo : No LoadTimeWeaver setup: ignoring JPA class transformer
2023-10-16T20:59:28.777-04:00 INFO 28320 --- [ restartedMain] o.h.b.i.BytecodeProviderInitiator : HH0000221: Bytecode provider name: bytebuddy
2023-10-16T20:59:30.087-04:00 INFO 28320 --- [ restartedMain] o.h.e.t.j.p.i.JtaPlatformInitiator : HH0000490: Using JtaPlatform implementation: [org.hibernate.engine.transaction.jta.platform.internal.NoJtaPlatform]
2023-10-16T20:59:30.272-04:00 INFO 28320 --- [ restartedMain] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistence unit 'default'
2023-10-16T20:59:31.143-04:00 WARN 28320 --- [ restartedMain] jpa.base.Configuration.jpaWebConfiguration : spring.jpa.open-in-view is enabled by default. Therefore, database queries may be performed during view rendering. Explicit
2023-10-16T20:59:31.798-04:00 INFO 28320 --- [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on port 35729
2023-10-16T20:59:31.851-04:00 INFO 28320 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 2330 (http) with context path ''
2023-10-16T20:59:31.871-04:00 INFO 28320 --- [ restartedMain] m.e.cs425.edeliver.EDeliverApplication : Started EDeliverApplication in 12.568 seconds (process running for 14.859)
```

4. Access the Application: Open your web browser and navigate to <http://localhost:2330/home>.



5. Initialize the Database:
- To access the application as an admin, you'll need to manually add admin data. Please follow the application's user management features to do so.



After logging into the system, you'll land to the following admin page.

Login Credentials

Admin Credentials

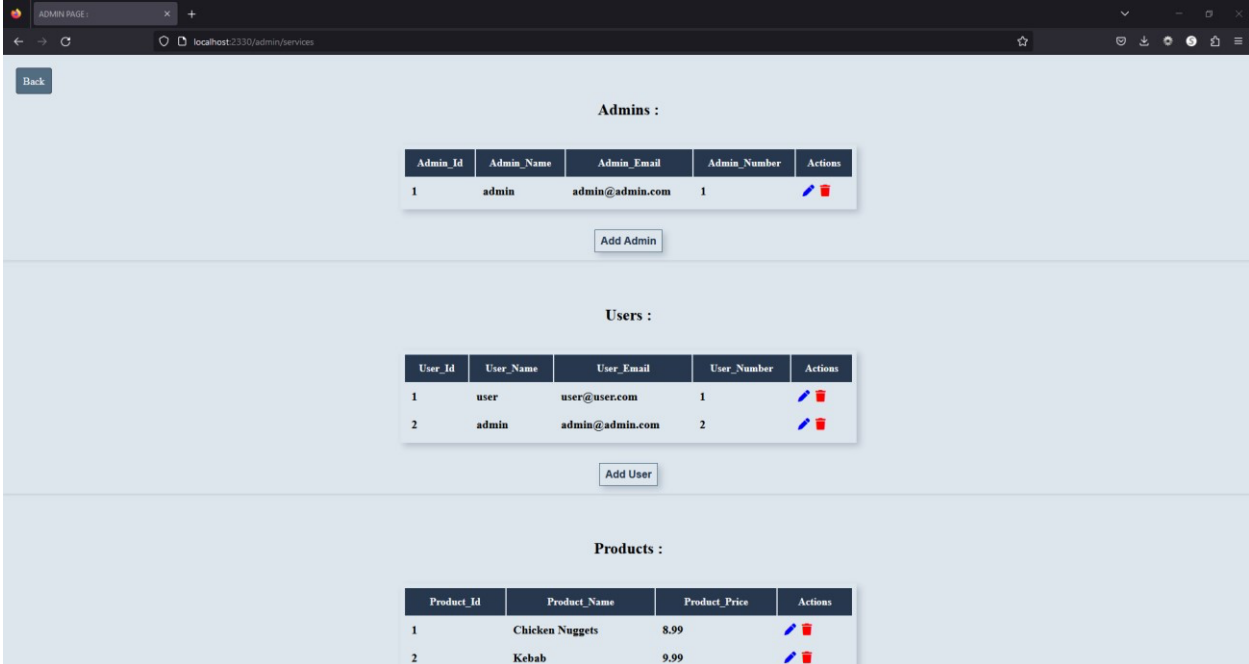
Email - admin@admin.com

Password – admin

User Credentials



Email - user@user.com

Password – user







The screenshot shows the 'ADMIN PAGE' of the eDeliver Web Application. The browser address bar indicates the URL is `localhost:3330/admin/services`. The page features a 'Back' button in the top left corner. The main content area is divided into three sections: 'Admins', 'Users', and 'Products', each with a table and an 'Add' button.

Admins :

Admin_Id	Admin_Name	Admin_Email	Admin_Number	Actions
1	admin	admin@admin.com	1	 





[Add Admin](#)

Users :

User_Id	User_Name	User_Email	User_Number	Actions
1	user	user@user.com	1	 
2	admin	admin@admin.com	2	 

[Add User](#)

Products :

Product_Id	Product_Name	Product_Price	Actions
1	Chicken Nuggets	8.99	 
2	Kebab	9.99	 

You are now ready to use the eDeliver Web Application to manage your food delivery business efficiently. Enjoy the benefits of streamlined customer management, inventory control, and order fulfillment.