

## Trade Store App Documentation

### Summary:

This document describes in detail of Trade store app. With this app client will be able to store Trade data or retrieve data with the help of available API. Trade app also takes care of updating expired trades with scheduler on every day at 1.00 AM.

This app is implemented with Java 8, Spring Boot, Maven, H2Database.

### API's Implemented:

- GET /trades
- GET /trade/{id}
- PUT /trade{id}
- GET /ping

### API Endpoints:

Http Method	URL	Description
Get	<a href="http://localhost:8080/trade/T1">http://localhost:8080/trade/T1</a>	<a href="#">Get Trade by ID</a>
Get	<a href="http://localhost:8080/trades">http://localhost:8080/trades</a>	<a href="#">To Get all Trades</a>
Put	<a href="http://localhost:8080/trade/T1">http://localhost:8080/trade/T1</a>	<a href="#">To Update to create Trade</a>
Get	<a href="http://localhost:8080/ping">http://localhost:8080/ping</a>	<a href="#">To check the health of the app</a>

### Authentication Used:

Authentication used in trade store app is Basic Authentication. API's can be accessed with below users.

Username	password
admin	admin
user	user
swagger	swagger

### Important URL:

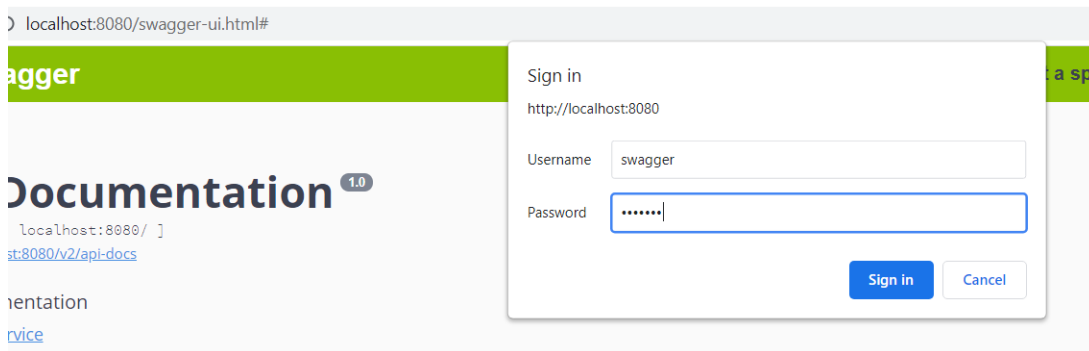
Swagger Url: <http://localhost:8080/swagger-ui.html#>

H2DB Console url: <http://localhost:8080/h2-console/>

### How to connect to Swagger:

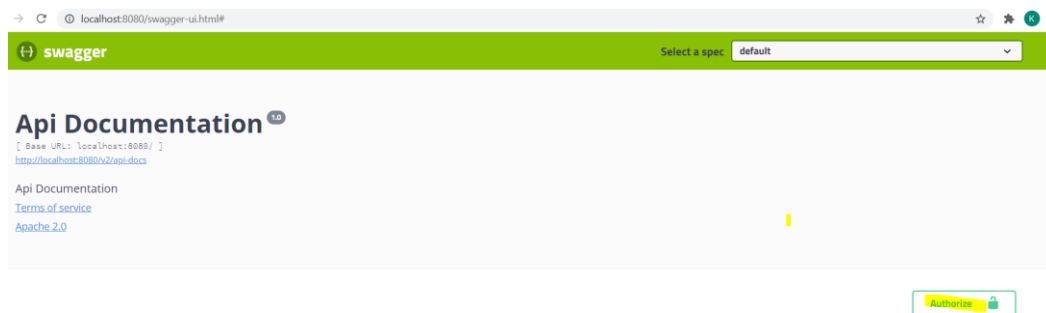
For opening Swagger user need to provide username and password as shown in below screen.

## Trade Store App Documentation



To use swagger to call API, user can authorize in the swagger.

1. Click on Authorize highlighted in yellow.



2. provide user name and password and then click on Authorize.

### Available authorizations

#### Basic authorization

Username:

Password:

AuthorizeClose

## Trade Store App Documentation

- when the request is authorized.

Available authorizations x

Basic authorization

Authorized

Username: Swagger  
Password: \*\*\*\*\*

Logout Close

### How to Connect to H2DB:

On click on H2DB console in browser, cline needs to pass below details.

**Driver:** org.h2.Driver

**JDBC URL:** jdbc:h2:mem:testdb

**Username:** sa

**Password:** ""(empty)

### Reference:

← → ↻ ⓘ localhost:8080/h2-console/login.jsp?jsessionid=d297313ad6547a92d847e1fcdedc57b1

English ▾ Preferences Tools Help

Login

Saved Settings: Generic H2 (Embedded) ▾

Setting Name: Generic H2 (Embedded) Save Remove

Driver Class: org.h2.Driver 🔒

JDBC URL: jdbc:h2:mem:testdb 🔒

User Name: sa 🔒

Password:

Connect Test Connection

## Trade Store App Documentation

### Tables created:

Below Tables are created for Trade store app

Table Name	Remarks
Trade	Holds trade data
Users	Holds user data
Roles	Holds user role data

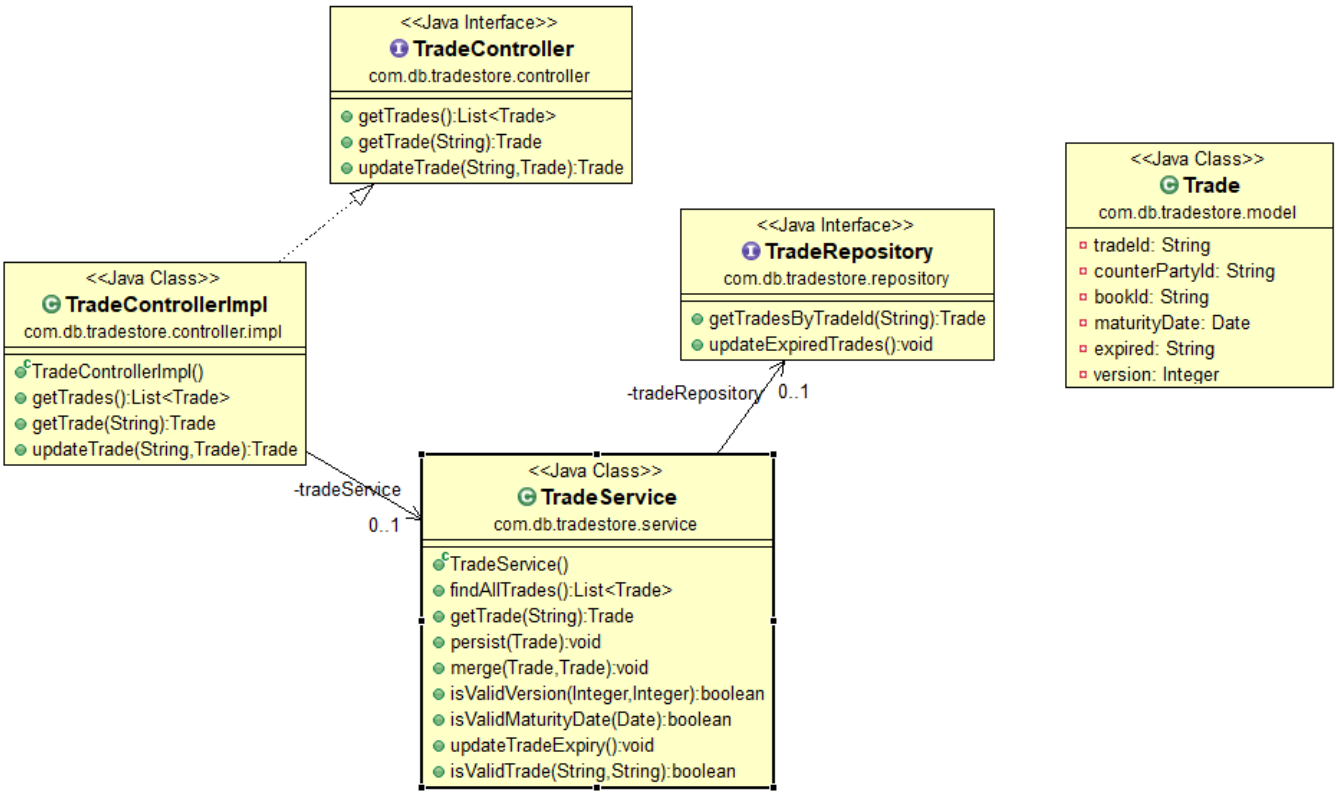
### Test Cases:

Below Junit test cases has been written which covers most of the scenarios.

✓	TradeStoreAppApplicationTests	1 sec 14 ms
✓	getAllTrades()	551 ms
✓	getTradeById()	201 ms
✓	updateTradeOnIdMismatch()	11 ms
✓	updateTradeOnInvalidVersion()	21 ms
✓	updateTradeInvalidMaturityDate()	17 ms
✓	updateTrade()	197 ms
✓	contextLoads()	16 ms

### UML Diagram:

# Trade Store App Documentation



Thank You 😊