

Enhancing DoReMi's Order and Inventory Management process

with The Sunday Lunatics Consultancy Ltd User Guide

Brought to you by:



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System Overview

Harmony is web based Order and Inventory management system customized to DoReMi, a music retailer. The platform is targeted at internal users of DoReMi in the Sales, Accounts and Warehouse departments. Users are able to perform the tasks listed below:

Sales	Accounts	Warehouse
Make Order	Evaluate Customer Credit RiskApprove Order	Approve Inventory Restock Request

User Interface

Angular is used Harmony's front end user interface. Once our rules and workflow inference engine outputs the result, which would be sent to Angular to display the results onto the web interface.

Requirements

Harmony supports the following web browsers:

- Internet Explorer 11
- Microsoft Edge 39 and above
- Firefox 53 and 52 ESR and above
- Google Chrome Version 59 and above
- Safari Version 10 and above

Deployment

To run the system in Linux Server

- 1. open terminal/git bash
- 2. \$ git clone //todo:git_url
- 3. unzip folder
- 4. \$ cd folder_location/DoRemi-service
- 5. make sure jdk 1.8 is installed
- 6. make sure maven installed
- 7. \$ chmod 777 launch.sh
- 8. \$./launch.sh clean install

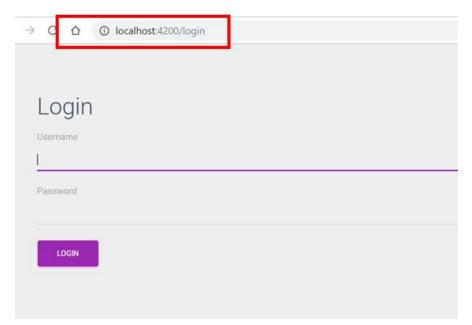
- 9. Go to URL using web browser Should be able to see a page with content "DoReMi-service-1.0-SNAPSHOT" via http://localhost:8090
- 10. \$ cd folder_locatioin/ang-doremi
- 11.\$ npm install -g @angular/cli
- 12.\$ npm install
- 13.\$ ng serve --open
- 14. Go to URL using web browser http://localhost:4200
- 15. The default configuration is running under h2 in-memory database
- 16. Once the backend application is stopped, all the data will be lost
- 17. To persist the data, the backend application support running on actual database server

To run the backend application in PostgreSQL

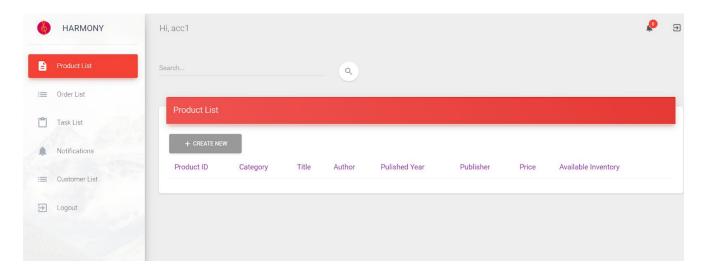
- 1. Refer to https://docs.jboss.org/jbpm/release/7.17.0.Final/jbpm-docs/html_single/#_run_your_business_application for more details
- 2. install postgreSQL 11.1
- 3. \$ cd folder/location/DoReMi-service
- 4. \$ psql -U postgres -f psql-script/create-user-db-grant.sql
- 5. ** change application configuration **
- 6. \$ rm src/main/resources/application.properties
- 7. \$ mv src/main/resources/application-postgres.properties src/main/resources/application.properties
- 8. \$./launch.sh clean install -Ppostgres

Get Started

Open up your preferred browser and go to the URL "http://localhost:4200/login" as shown below:



Enter the credentials provided in the Test Data.xlsx file. Upon successful login, the Harmony user interface will be presented:

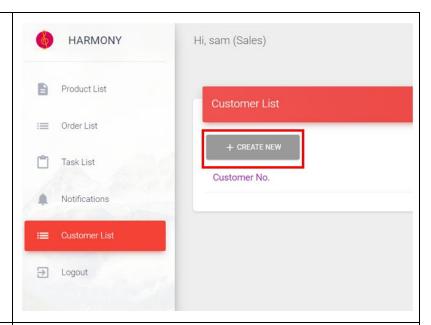


Walkthrough

The following section will provide a step by step walkthrough of the various actions which DoReMi users can perform within Harmony

All Roles: Create Customer

 From the Navigation Panel, select Customer List' and select 'Create New'.

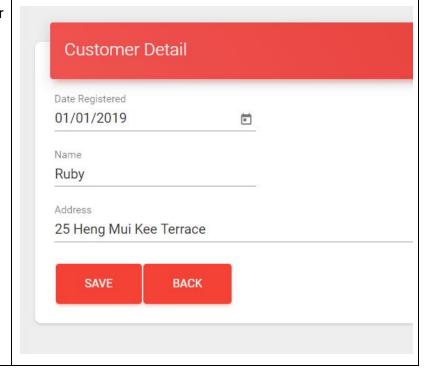


 Create a New Customer by inputting the following details: Date Registered: 01/01/2019

Name: Ruby

Address: 25 Heng Mui

Kee Terrace

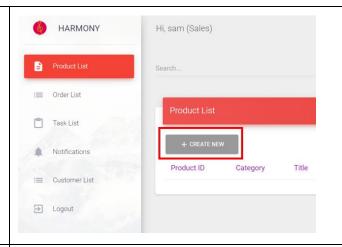


3. A new customer will be created



All Roles: Create Product

 From the Navigation Panel, select Product List' and select 'Create New'.



3. Create a new produc through the Input of Product Details: **Title:**Cats the Musical

Author: Andrew Lloyd

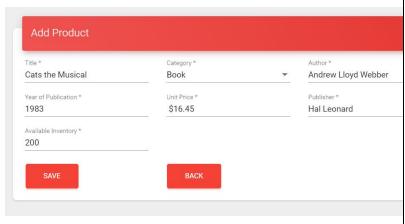
Webber

Publisher: Hal Leonard **Unit Price:** 16.45 **Available Inventory:**

200

Year of Publication:

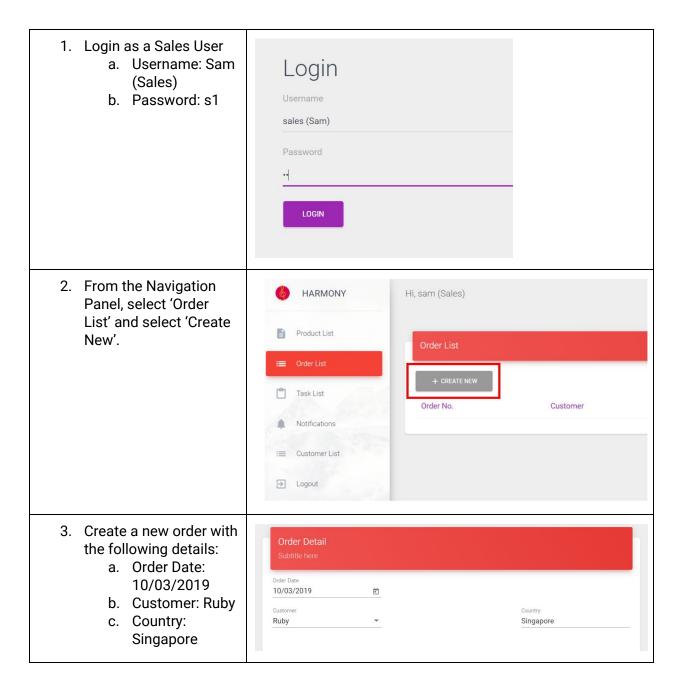
1983

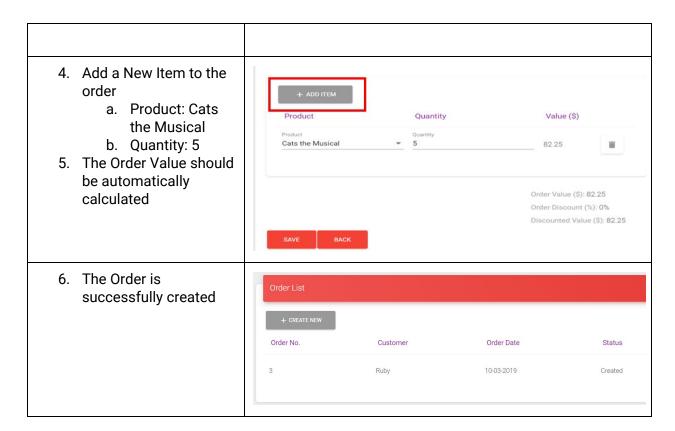


3. A new Product is Created

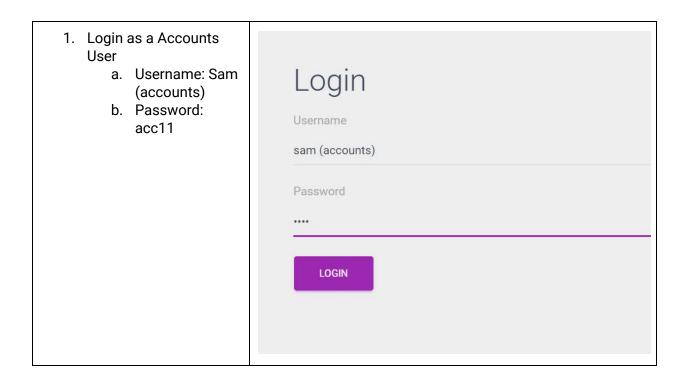


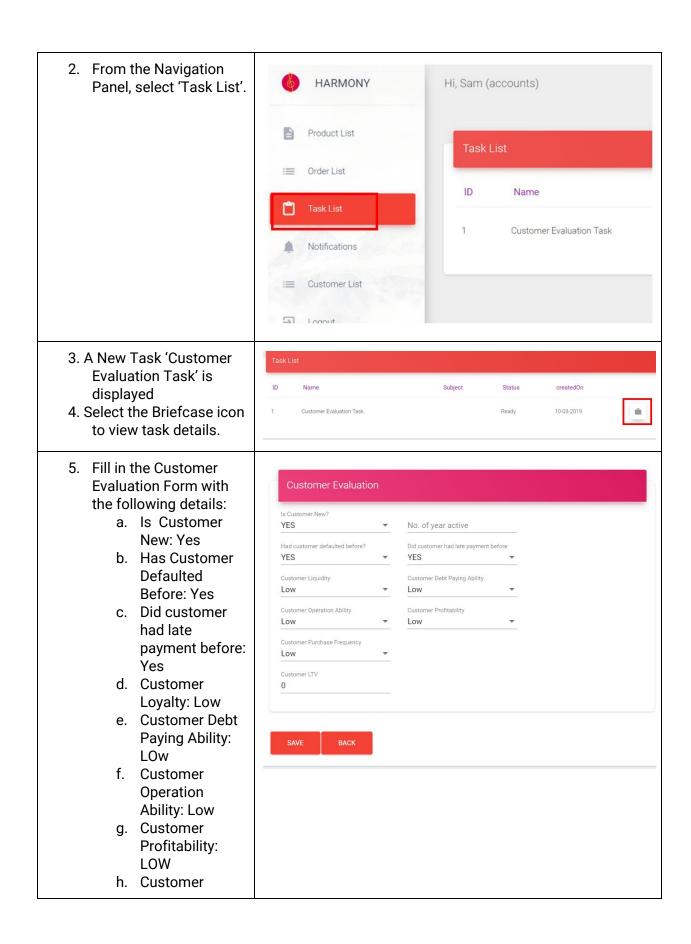
Sales: Create Order

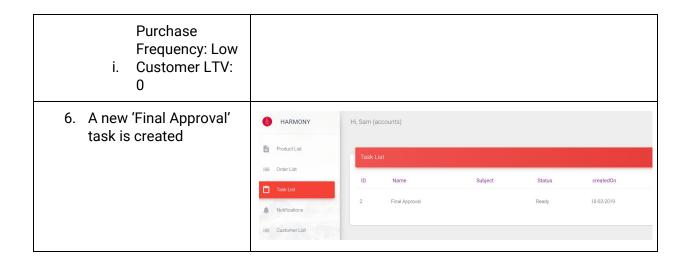




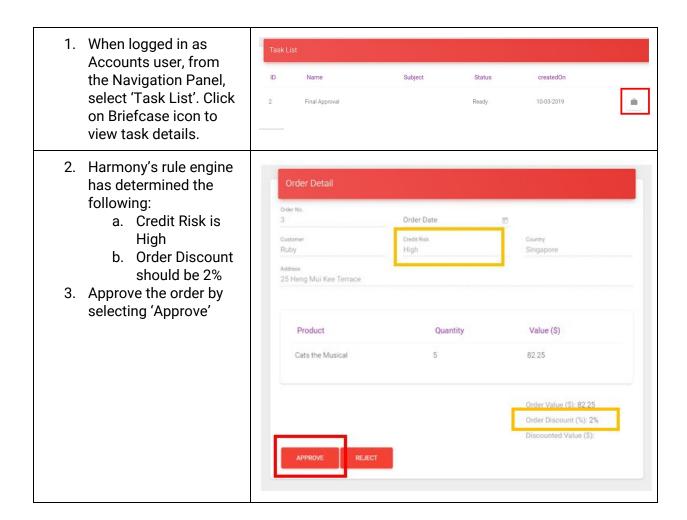
Accounts: Evaluate Customer



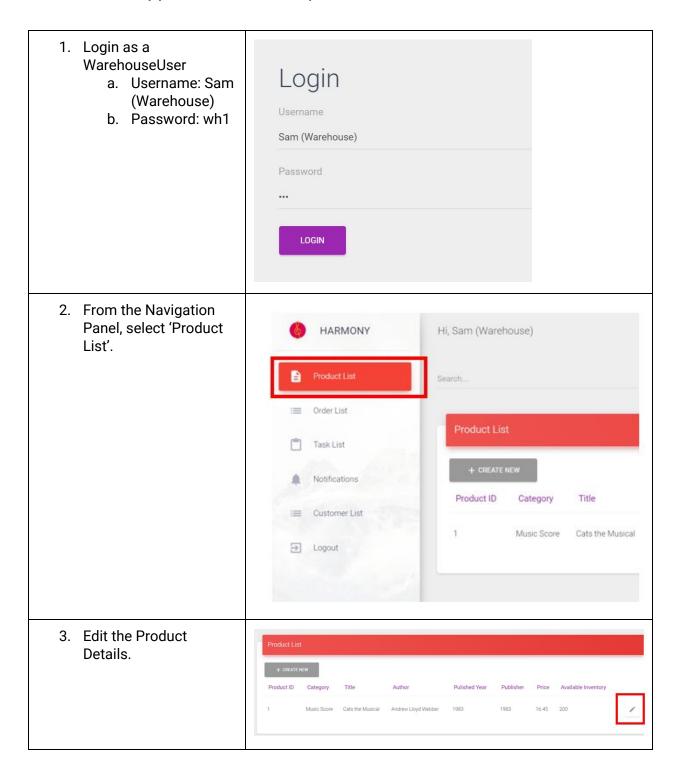


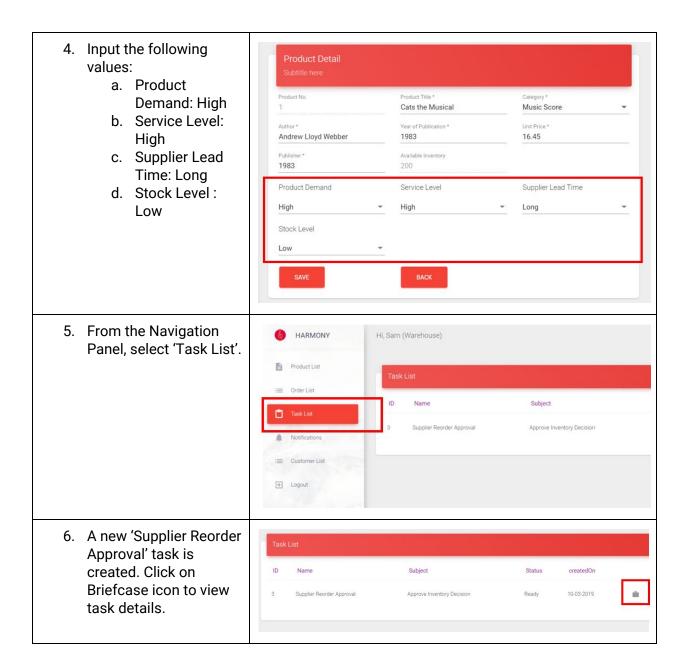


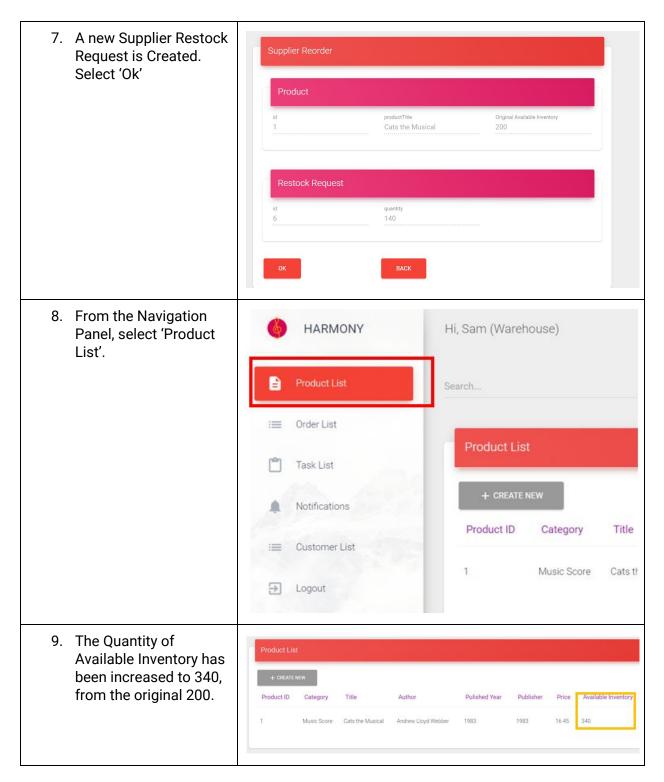
Accounts: Approve Order



Warehouse: Approve Restock Request







Test Cases

Test Cases and the corresponding results are detailed in Appendix C of our main project report.