Innovative Solutions Application User Manual

How to launch the application

1) Import into the local MySQL server the "innovativesolutions_jpa.sql" database dump (which includes the "CREATE SCHEMA" statement).

2) Make sure that the JDBC MySQL credentials defined in the "InnovativeSolutions\src\main\resources\META-INF\persistence.xml" file match a user registered in the local MySQL server (default credentials are user: "root", password: "root").

3) Launch the application server from the "Dataserver" class (which is defined in the "InnovativeSolutions\TaskOne\src\main\java\DataManagement.java" file).

4) Launch the application client from the "GraphicInterface" class (which is defined in the "InnovativeSolutions\src\main\java\graphicInterface\GraphicInterface.java" file).

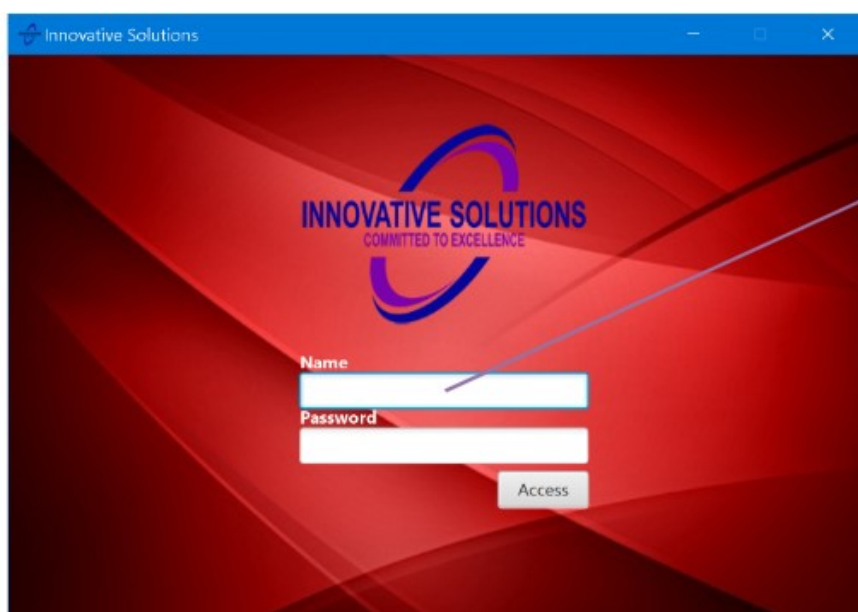5) Login into the application using one of the sample credentials provided in the following page.

It should also be noted, in the unlikely event of a server crash, that the "levelDb0" and the "levelDb1" subfolders must be deleted in order for the key-value component of the application to function properly.

How to test for the consistency management

The application capability of handling consistency in case of failure of the hibernate and/or levelDB modules can be tested on one side by shutting down the local MySQL server, and on the other by removing the write privileges on the "InnovativeSolutions" and/or the "levelDb0" and "levelDb1" subfolders.

Application GUI

The following diagram describes the main features offered by the application's GUI:

Login

Every time an user logs in, it is reidirected to the interface relative to its user type (Administrator, Team Leader or Customer). The following example credentials can be used to access the application:
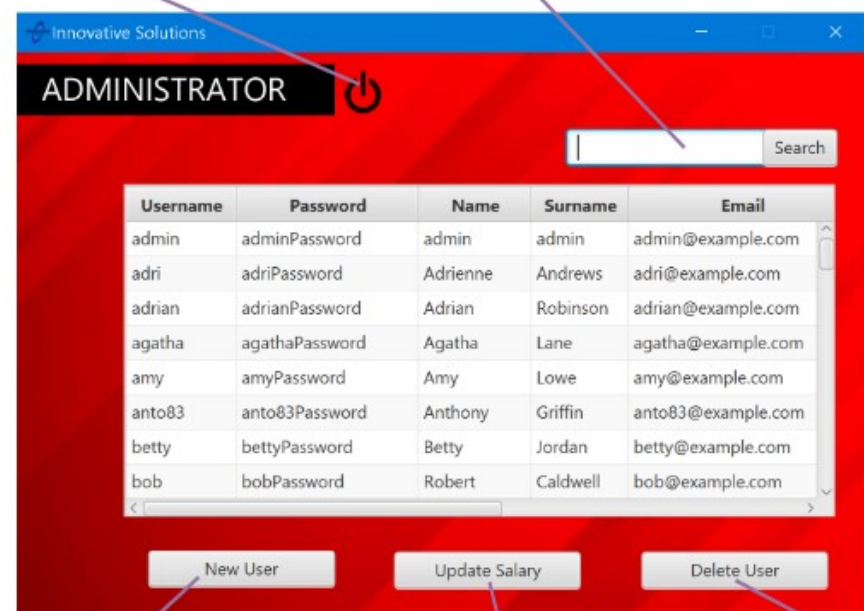
User Type	Username	Password
Administrator	admin	adminPassword
Team Leader	adrian	adrianPassword
Customer	adri	adriPassword
Customer	matty	mattyPassword

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Name

Password

Access

Logout

Each interface provides a logout button allowing users to return to the login screen

Search

Each interface provides a search box allowing users to filter the results of the current view

Section

Allows to move between the section offered by the current interface

ADMINISTRATOR

Search

Username	Password	Name	Surname	Email
admin	adminPassword	admin	admin	admin@example.com
adri	adriPassword	Adrienne	Andrews	adri@example.com
adrian	adrianPassword	Adrian	Robinson	adrian@example.com
agatha	agathaPassword	Agatha	Lane	agatha@example.com
amy	amyPassword	Amy	Lowe	amy@example.com
anto83	anto83Password	Anthony	Griffin	anto83@example.com
betty	bettyPassword	Betty	Jordan	betty@example.com
bob	bobPassword	Robert	Caldwell	bob@example.com

New User   Update Salary   Delete User

MANAGER

Search   Sections

ID	Name	Surname	Email	Role
adrian	Adrian	Robinson	adrian@example.com	Engineer
bob	Robert	Caldwell	bob@example.com	Technician
jacob	Jacob	Chan	jacob@example.com	Technician
lorry	Lorry	Prenton	lorry@example.com	Technician

Add Product

CUSTOMER

Search   Sections

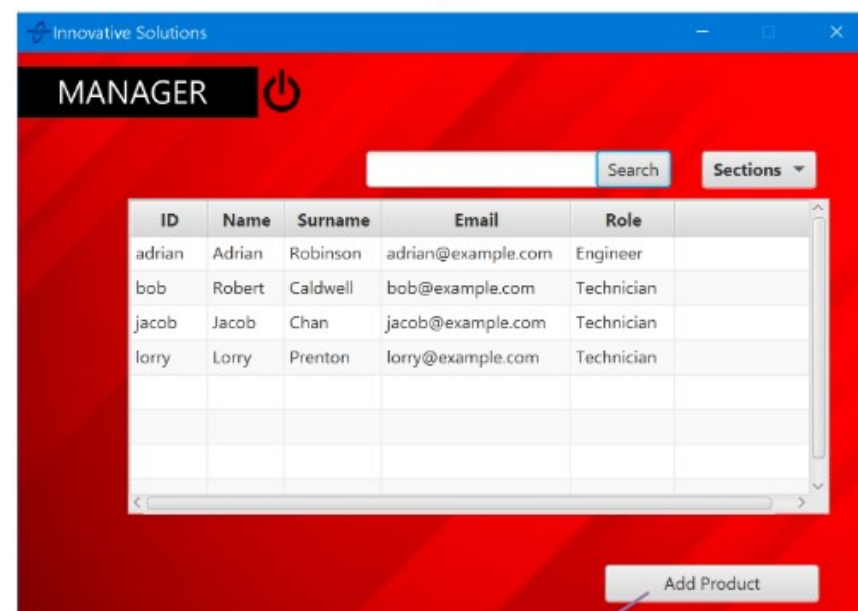| Name	Price	Description	Availability
ISmartBand	20	A smartband with fitness and medical tra...	4
ISmartLight	10	A light bulb allowing remote control via ...	20
ISmartLock	45	A lock that can be installed into a door t...	19
ISmartThermo	55	A smart thermostat that allows remote r...	17
ISmartVideoBell	120	A smart doorbell with an integrated displ...	10

New Order

New User

Allows the system administrator to add a new employee or customer to the application

Update Salary

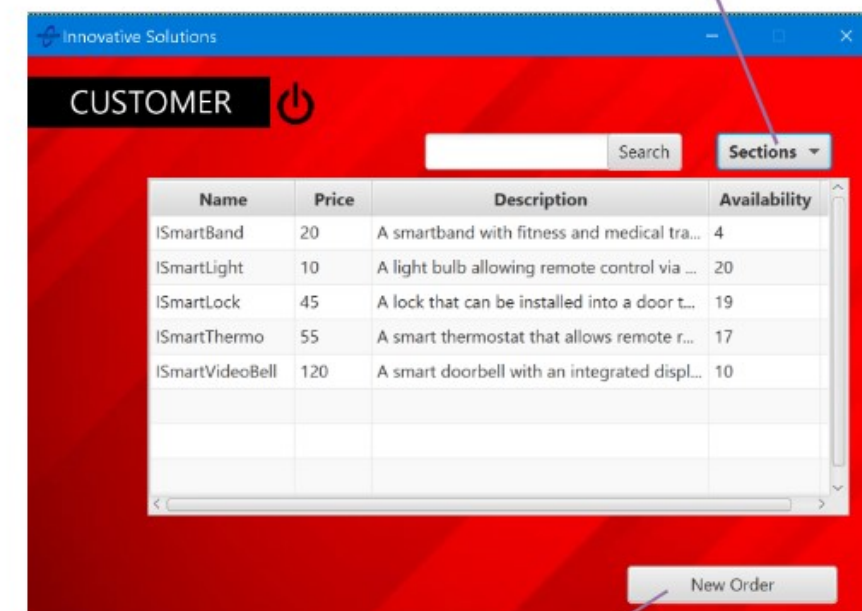Allows the system administrator to update the salary of an employee

Delete User

Allows the system administrator to delete an user from the application

Add Product

Allows a Team Leader to increase the availability of a product category assembled by its team

New Order

Allows the Customer to purchase a product available in stock