Product Registration interface spec

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# DEFINITIONS & ABBREVATIONS

|  |  |
| --- | --- |
| API | Application Programming Interface |
| CDPP | Connected Digital Platforms and Propositions |

# INTRODUCTION

This document provides an overview of public interface APIs for product registration component in Mobile applications.

## Purpose

The purpose of this document is to elaborate on the public APIs used in product registration component which helps mobile applications to integrate.

## Scope

This document covers only public APIs used in product registration. Private APIs and details of classes used is out of scope of this document.

## Target Audience

CDPP development team.

## Interfaces

### init

|  |  |
| --- | --- |
| Function definition | init(Context context) |
| Class name | ProdRegHelper |
| Parameters | Application Context |
| Pre-Condition | Call setLocale on localematch component |
| Brief | It saves the context information. |
| Error scenarios | NA |
| Callback functions | NA |
| Type | Synchronous |

### addProductRegistrationListener

|  |  |
| --- | --- |
| Function definition | addProductRegistrationListener(ProdRegListener listener) |
| Class name | ProdRegHelper |
| Parameters | ProdRegListener type |
| Pre-Condition | NA |
| Brief | This listener will be used as callback function for communicating product registration events on both success and failure. |
| Error scenarios | NA |
| Callback functions | NA |
| Type | Synchronous |

### RemoveProductRegistrationListener

|  |  |
| --- | --- |
| Function definition | RemoveProductRegistrationListener() |
| Class name | ProdRegHelper |
| Parameters | NA |
| Pre-Condition | NA |
| Brief | The listener which PR has added internally to listen to UR events will be unregistered. App is expected to call this, please refer integration guidelines for more details. |
| Error scenarios | NA |
| Callback functions | NA |
| Type | Synchronous |

### getSignedInUserWithProducts

|  |  |
| --- | --- |
| Function definition | userwithproducts getSignedInUserWithProducts() |
| Class name | ProdRegHelper |
| Parameters | NA |
| Pre-Condition | NA |
| Brief | It gives instance of userwithproducts class using currently signed in user. |
| Error scenarios | NA |
| Callback functions | NA |
| Type | Synchronous |

### registerProduct

|  |  |
| --- | --- |
| Function definition | registerProduct(Product product) |
| Class name | UserWithProducts |
| Parameters | product: Information of the product to be registered like CTN, sector, catalog, serial number, date of purchase etc. |
| Pre-Condition | Need to call init API, setLocale on localematch component, set the listener API |
| Brief | This function calls PRX API to register the product with the user who is currently signed in. It does the following actions:   * validates input against product metadata * Stores product information for offline processing. * Call PRX API to register product by providing product info and access token if internet is available.   The status of the operation is reported to application through call-back. |
| Error scenarios | * Invalid parameter * Network errors * System errors |
| Callback functions | * onProdRegSuccess(RegisteredProduct product) * onProdRegFailure(RegisteredProduct product) |
| Type | Asynchronous |

### getRegisteredProducts

|  |  |
| --- | --- |
| Function definition | getRegisteredProducts(RegisteredProductsListener listener) |
| Class name | UserWithProducts |
| Parameters | None |
| Pre-Condition | None |
| Brief | This function is to fetch the list of registered products from Local cache/remote for current user. It does the following actions:   * It gives stored data in local cache for current user. * It fetches the updated list from remote PRX API call * This list includes the list of products which are registered remotely as well as products stored in local cache. It can differentiated based on the registration states. |
| Error scenarios | * List can be null if there is no product data stored. |
| Callback functions | RegisteredProductsListener has two APIs   1. getRegisteredProductsSuccess(List<RegisteredProduct>) 2. getRegisteredProductsError(ProdRegError error) |
| Type | Asynchronous |