Use Case Details

Case Use Model

Version • Proposed



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TOSHIBA

EA Repository : D:\d_carpet\EAProjects\SPFG_v2\SPFG_cd\Documentation\SPGF.eap





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Case Use Model

Package in package 'Model'

Case Use Model
Version Phase 1.0 Proposed
Dave created on 31/03/2018. Last modified 24/04/2018

Case Use diagram

Use Case diagram in package 'Case Use Model '

The Use Case model is a catalogue of system functionality described using UML Use Cases. Each Use Case represents a single, repeatable interaction that a user or "actor" experiences when using the system.

A Use Case typically includes one or more "scenarios" which describe the interactions that go on between the Actor and the System, and documents the results and exceptions that occur from the user's perspective.

Use Cases may include other Use Cases as part of a larger pattern of interaction and may also be extended by other use cases to handle exceptional conditions.

Case Use Version 1.0 Dave created on 31/03/2018. Last modified 25/04/2018





Figure 1: Case Use

Actors

Package in package 'Case Use Model'

Actors
Version 1.0 Phase 1.0 Mandatory
Dave created on 31/03/2018. Last modified 17/04/2018

Actors diagram

Use Case diagram in package 'Actors'

Actors are the users of the system being modeled. Each Actor will have a well-defined role, and in the context of that role have useful interactions with the system.

A person may perform the role of more than one Actor, although they will only assume one role during one use case interaction.

An Actor role may be performed by a non-human system, such as another computer program.

Actors Version 1.0 Dave created on 31/03/2018. Last modified 17/04/2018

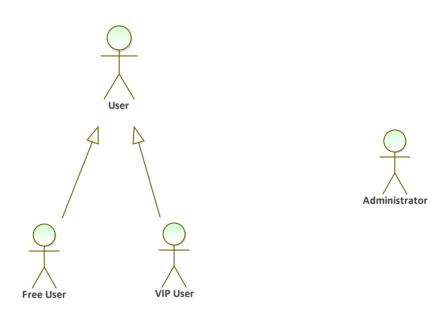


Figure 2: Actors

Use Case

Package in package 'Case Use Model'

Use Case
Version 1.0 Phase 1.0 Mandatory
Dave created on 31/03/2018. Last modified 17/04/2018

SPFG diagram

Use Case diagram in package 'Use Case'

This package contains use cases which define how an Actor will interact with the proposed system.

Each interaction may be specified using scenarios, sequence diagrams, communication diagrams and other dynamic diagrams or textual descriptions which together describe how the system, when viewed as a "black-box", interacts with a user.

SPFG Version 1.0 TOSHIBA created on 31/03/2018. Last modified 25/04/2018

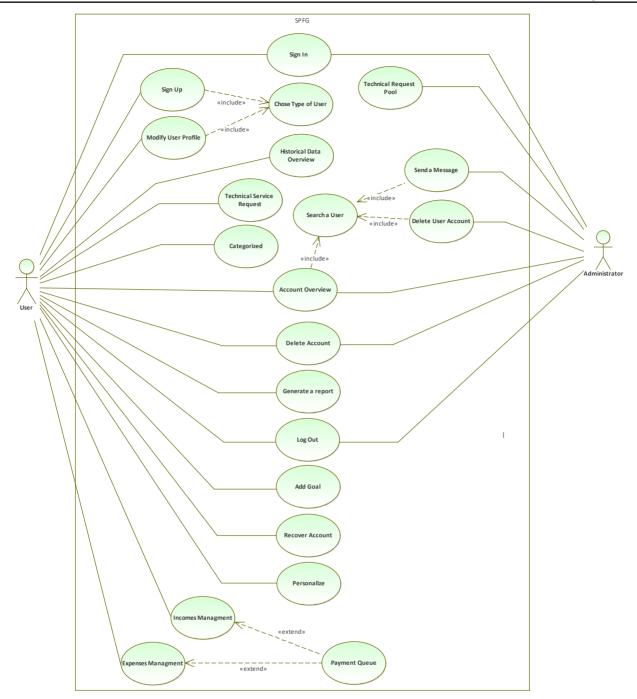


Figure 3: SPFG

Sign In

UseCase in package 'Use Case'

Objective:

Allows Users and Administrators to get into their account. Also, makes a differentiation between roles.

Pre-requisites:

- 1: For a complete functionality in this use case, the user must exits in the database.
- 2: This use case won't be available if you are already logged in.

Main flow:

1: A form is displayed with two fields: Email and Password.

- 2: The system user types his/her email and password.
- 3: The system validates incoming information.
- 4: The system designs a request and send it to the database.
- 5: The database returns a positive answer.
- 6. The account can be accessed

Secondary flow:

- 3.1: If data validation fails, an error message is shown next to a possible solution for the user.
- 5.1: If the database returns a negative answer, then an error message is shown next to the form.

Sign In Version 1.0 Phase 1.0 Mandatory Dave created on 07/04/2018. Last modified 26/04/2018

CONNECTORS

UseCaseLink Source -> Destination

From: User: Actor, Public Sign In: UseCase, Public

UseCaseLink Source -> Destination From: Administrator: Actor, Public Sign In: UseCase, Public

Sign Up

UseCase in package 'Use Case'

Registers and saves data from new users. Besides, it allows you to choose a pricing plan.

Pre-requisites:

1: There is not an specific pre-requisite to apply this use case.

Main Flow:

- 1: A form is displayed to acquire necessary information.
- 2: The user selects a pricing plan.
- 3: The user types his/her personal information.
 - 3.1: In case of free accounts, only name, email and password are necessary.
 - 3.2: Otherwise, a VIP user must add an extra email and a phone number.
- 4: In order to avoid a possible attack, the system should validate incoming data.
- 5: Once validation process has ended, the system designs a query to the database.
- 6: The database looks for accounts with the same email.
- 7: If the database returns a positive answer; then new data is accepted.
- 8: The system displays a success message. The user is redirected to the profile section.

Secondary Flow:

- 4.1 If data validation fails, then an error message is shown.
- 7.1 In case of a negative answer, incoming data is not accepted and the user must write a new account with different information.

> Sign Up Version 1.0 Phase 1.0 Mandatory Dave created on 07/04/2018. Last modified 26/04/2018

CONNECTORS

Include «include» Source -> Destination

From: Sign Up: UseCase, Public

Chose Type of User: UseCase, Public

UseCaseLink Source -> Destination

From: User: Actor. Public To: Sign Up: UseCase, Public

Modify User Profile

UseCase in package 'Use Case'

Objective:

Allows any kind of user to modify his/her personal data. This functionality includes an option to choose a pricing plan.

Pre-requisites:

1: The user must be logged in the application.

Main Flow:

- 1: A form is displayed to receive new information. Independently of the type of user, there are five fields to complete: Name, Email, Password are obligatory. Extra email and phone number are optional.
 - 2: The user types his/her new personal information. It's not necessary to complete all the fields.
 - 3: In order to avoid a possible attack, the system should validate incoming data.
 - 4: Once validation process has ended, the system design a query for the database.
 - 6: The database looks for accounts with the same email.
 - 7: If a positive answer is returned, then the new data is saved.
 - 8: A success message is displayed. Now, the user can see a new profile with different information.

Secondary Flow:

7.1 In case of a negative answer, a message error is displayed. Most of the time this problem could be related with the email section, so this possible solution must be shown to the user.

> Modify User Profile Version 1.0 Phase 1.0 Mandatory Dave created on 09/04/2018. Last modified 26/04/2018

CONNECTORS

Include «include» Source -> Destination From: Modify User Profile: UseCase, Public Chose Type of User: UseCase, Public

CONNECTORS

UseCaseLink Source -> Destination

From: User: Actor, Public

To: Modify User Profile: UseCase, Public

Chose Type of User

UseCase in package 'Use Case'

Objective:

Grants interpolation between free and VIP users. Once done, this option will be unable for a week.

Pre-requisites:

- 1: The user must be logged in the application. Am exception is apply for new users.
- 2: The user must have this option available.
- 3: The user must be modifying his/her profile.

a) For Free users:

Main Flow:

- 1: A modal appears to receive a ticket number.
- 2: The users types the ticket number.
- 3: The system validates the ticket number.
- 4: If exists an extra email and a phone number, the free account is upgraded.
- 5: A success message is displayed. Now the user can access to the VIP functions.
- 6: The system disables this function for a week.

Secondary Flow:

- 4.1: Otherwise, the system will display a tiny modal to receive extra information.
- 4.2: The user types an extra email and a phone number.
- 4.3: The free account is upgraded.

b) For VIP users:

Main Flow:

- 1: A modal appears to confirm a free account version.
- 2: In case of a positive answer, the system will return your account to a free version. VIP functions will be deactivate automatically.
 - 3: Finally a success message is displayed.

Secondary Flow:

- 1.1: This functionality will be applied automatically if a payment plan is canceled by unspecific situation.
- 2.1: If a negative answer is sent by the user, the modal is automatically closed.

Chose Type of User Version 1.0 Phase 1.0 Mandatory Dave created on 09/04/2018. Last modified 26/04/2018

CONNECTORS

Include «include» Source -> Destination From: Modify User Profile: UseCase, Public Chose Type of User: UseCase, Public

CONNECTORS

Include «include» Source -> Destination

From: Sign Up: UseCase, Public

To: Chose Type of User: UseCase, Public

Technical Request Pool

UseCase in package 'Use Case'

Objective:

The request pool is a place where all technical request are stored. There is just one request pool and only administrators will have the access to it.

Pre-requisites:

1: The administrator must logged in the system.

Main Flow:

- 1: The administrator accesses to the request pool section.
- 1: The administrator reviews the last n-technical request stored in the pool. Oldest request will be at the top of the list.
 - 2: The administrator selects an specific request to be solved.
 - 3: If a solution is found for any technical request, then this is marked as "solved" by the administrator.
 - 4: The system adds a solution date and writes administrator's ID next to the request.
 - 6: The request is now saved in the database as a solved issue.
 - 5: Also, the administrator can click in a option box to send a message.

Technical Request Pool Version 1.0 Phase 1.0 Proposed Dave created on 09/04/2018. Last modified 26/04/2018

CONNECTORS



UseCaseLink Source -> Destination From: Administrator: Actor, Public

Technical Request Pool: UseCase, Public

Historical Data Overview

UseCase in package 'Use Case'

Objective:

Makes an exhaustive analysis from the last weeks, months and even years.

Pre-requisites:

- 1: The user must be logged in the application.
- 2: The daily balance must be pre-worked each time an expense or income is added or deleted.

Main Flow:

- 1: The user accesses to the historical data section.
- 2: Once clicked the button for this section, the system proceeds to design a query to the database.
- 3: The database returns a list with the information of the n- last months. (This n is defined by the system).
- 4: The system organizes incoming information from the database. A list of n-last months (This n is defined by the user) is organized with the balance from different days. Each day will have a color that defines the daily balance. A green color indicates a positive balance. A red color indicates a bad day.
 - 5: The system shows an structured list from the last n-months.
 - 4: If a user selects an specific day, a modal appears and shows every incomes and expenses in that day.

Historical Data Overview Version 1.0 Phase 1.0 Mandatory Dave created on 16/04/2018. Last modified 26/04/2018

CONNECTORS

UseCaseLink Source -> Destination

From: User: Actor, Public

To: Historical Data Overview: UseCase, Public

Technical Service Request

UseCase in package 'Use Case'

Objective:

Sends a request to the administrator in case of any problem.

Pre-requisites:

1: The user must be logged in the system.

Main Flow:

- 1: The user accesses to the "Report a Fail" section.
- 2: The user types the description of the fault [Required].
- 3: The user selects an option:
 - 3.1: Send Solicitude
 - 3.2: Cancel
- 4: In case of "Send Solicitude", the system adds user information and designs a query to send the technical request to the pool. Otherwise the "Report a Fail" section is closed.
 - 4.1: The technical request is stored as an unsolved issue.
 - 5: Once done, the section is closed. Subsequently a success message is shown.

Technical Service Request Version 1.0 Phase 1.0 Mandatory Percy created on 09/04/2018. Last modified 26/04/2018

CONNECTORS

UseCaseLink Source -> Destination

From: User: Actor, Public

Technical Service Request : UseCase, Public

Categorized

UseCase in package 'Use Case'

Allows users to organize any kind of incomes and expenses in a category. A category is defined under an ID that represent a list from different Incomes/Expenses ID's. A category can be added, modified or deleted. Also, the system won't allow categories with the same name.

By default the system will provide you with a Category called "Others"*. This category can't be deleted since it's the pool for uncategorized incomes/expense. Also, categories could have the same name if they're not in the same environment**.

- * Obviously, there would be a default category for Expenses and a default category for Incomes.
- **Environments: Expenses and Incomes.

Categorized Version 1.0 Phase 1.0 Mandatory Dave created on 16/04/2018. Last modified 25/04/2018

CONNECTORS

UseCaseLink Source -> Destination

From: User: Actor, Public

To: Categorized: UseCase, Public

Search a User

UseCase in package 'Use Case'

Objective:

Searches a user.

Pre-requisites:

1: The administrator must logged in the system.

Main Flow:

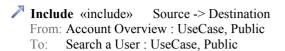
- 1: A form is displayed with different fields to make a better search.
- 2: The administrator types the information in the fields.
- 3: The system accesses to the database.
- 4: The system returns the records founded.

Search a User Version 1.0 Phase 1.0 Mandatory Percy created on 09/04/2018. Last modified 26/04/2018

CONNECTORS

Include «include» Source -> Destination From: Delete User Account : UseCase, Public To: Search a User: UseCase, Public

CONNECTORS



Include «include» Source -> Destination From: Send a Message : UseCase, Public To: Search a User : UseCase, Public

Send a Message

UseCase in package 'Use Case'

Objective:

The administrator can send messages to the users.

Pre-requisites:

1: The administrator must logged in the system.

Main flow:

- 1: The administrator presses the button to see users.
- 2: A list of users by license is shown.
 - 2.1: Free users.
 - 2.2: VIP users.
- 3: Write the message you want to be sent. [Required].
- 4: The administrator can:
 - 4.1: Search for a specific user. [ID, Name, Mail]
 - 4.2: Select the users to send the message.
- 5: Finally, select:
 - 5.1 Submit.
 - 5.2 Cancel.

Send a Message Version 1.0 Phase 1.0 Proposed Percy created on 09/04/2018. Last modified 26/04/2018

CONNECTORS

✓ Include «include» Source -> Destination From: Send a Message : UseCase, Public To: Search a User : UseCase, Public

✓ UseCaseLink Source -> Destination From: Administrator : Actor, Public To: Send a Message : UseCase, Public

Delete User Account

UseCase in package 'Use Case'

Objective:

Modify the status of a user.

Pre-requisites:

1: The administrator must logged in the system.

Main flow:

- 1: The administrator enters the panel to delete accounts.
- 2: Search a User.
- 3: A text box is displayed.
- 4: The administrator types the reason why the user will be banned.
- 5: The administrator modifies the status of the account.
- 6: Select: Save or Cancel.
- 7: If "save" is selected, the system change the visibility of the account. Now the user cannot access to his/her account even if he/she uses the recovery function.

Secondary Flow:

7.1 If "cancel is selected" all changes will be ignored and the section will be closed.

Delete User Account Version 1.0 Phase 1.0 Mandatory Percy created on 21/04/2018. Last modified 26/04/2018

CONNECTORS

Include «include» Source -> Destination
From: Delete User Account : UseCase, Public
To: Search a User : UseCase, Public

✓ UseCaseLink Source -> Destination From: Administrator : Actor, Public

To: Delete User Account : UseCase, Public

Account Overview

UseCase in package 'Use Case'

Objective:

Shows an organized diagram with user's information.

Pre-requisites:

1: The system user must be logged in the application.

Main flow:

- 1: The user accesses to the overview section.
- 2: The user information is obtained [income / expenses Objectives].
- 3: The defined objectives and their progress are shown in a segment.
- 4: The organized information of the user is displayed:
 - 4.1: Frequency: Monthly.
 - 4.2: Type of Graph: Linear.

- 5: The user can:
 - 5.1 Change the type of Graphic.
 - bars.
 - linear
 - circular.
 - area.
 - histogram.
 - 5.2 Change the Frequency.
 - weekly
 - monthly.
 - annual.

Account Overview Version 1.0 Phase 1.0 Mandatory Percy created on 09/04/2018. Last modified 26/04/2018

CONNECTORS

Include «include» Source -> Destination From: Account Overview : UseCase, Public To: Search a User : UseCase, Public

✓ UseCaseLink Source -> Destination From: Administrator : Actor, Public To: Account Overview : UseCase, Public

UseCaseLink Source -> Destination

From: User: Actor, Public

To: Account Overview : UseCase, Public

Delete Account

UseCase in package 'Use Case'

Objective:

Cancels any payment plan and inactivates your account.

Pre-requisites:

The system user must be logged in the system.

Main flow:

- 1: Inside the profile page you click the button "Delete account".
- 2: Appears a form that asks you to enter your password in order to delete your account.
- 3: If the password was correct, inside the database your account now has a type: inactive. All the payment plans will be canceled and the system automatically logs out and you are redirected to the login page.

Secondary Flow:

3.1: Otherwise, it shows you a message "Invalid password, enter it again".

Delete Account Version 1.0 Phase 1.0 Proposed Alonso created on 09/04/2018. Last modified 26/04/2018

CONNECTORS

UseCaseLink Source -> Destination

From: User: Actor, Public

Delete Account : UseCase, Public

UseCaseLink Source -> Destination From: Administrator: Actor, Public To: Delete Account : UseCase, Public

Generate a report

UseCase in package 'Use Case'

Objective:

Generates a pdf file with a summary of your expenses and income (including graphics and numbers/text).

Main flow:

- 1: Inside the Overview page, you click the button "Generate report".
- 2: Appears a form that asks you for the number of the last moths that you want your report to be generated
- 3. If you enter a correct number and you click "Generate", it is downloaded a pdf file with a summary of your expenses and income of the last N months.

Generate a report Version 1.0 Phase 1.0 Proposed Dave created on 09/04/2018. Last modified 25/04/2018

CONNECTORS



UseCaseLink Source -> Destination

From: User: Actor, Public

To: Generate a report : UseCase, Public

Log Out

UseCase in package 'Use Case'

Objective:

Takes you out of session and the next time you want enter to the system it will ask you for your password.

Pre-requisites:

1: The system user must be logged in the application.

Main Flow:

- 1: If you click in your profile section, a modal will appear with summed information of your profile and also a "Log out" button.
- 2: If you click in the "Log out" button, you will be redirected to the login page and the next time you want to enter to the system it will ask you for your password.

> Log Out Version 1.0 Phase 1.0 Mandatory Alonso created on 09/04/2018. Last modified 26/04/2018

CONNECTORS

UseCaseLink Source -> Destination

From: User: Actor, Public Log Out : UseCase, Public

✓ UseCaseLink | Source -> Destination From: Administrator: Actor. Public To: Log Out : UseCase, Public

Add Goal

UseCase in package 'Use Case'

Objective:

Shows a list of objectives that indicates how much your goals are completed. This is a good way to indicate you what kind of things you can buy.

Pre-requisites.

1: The user must be logged in the application.

Main Flow:

- 1: In the overview page there will be a button called "Goals". If a user clicks in it, a modal will be deployed from the right side.
- 2: The system will make a list from the user's goals. Also, this list includes a progress percentage.
- 3: Inside this section, a button called "Add a Goal" allows user to create new goals.
- 4: When a user clicks the "Add a goal" button, a form is display to acquire necessary information.
- 5: There are four field to be completed: Name [Obligatory], Amount [Obligatory], Dead Point [Optional], Date of Creation[Automatic]. The system will add extra information: State and Progress.
- 6: Once done, the user clicks "Save Goal" button.
- 7: The system will save the new goal. Now your goal is added, and you will see it in the overview page, inside the list of goals.

Secondary Flow:

6.1 If the user clicks the "Cancel" button, acquired information will be discard.

Add Goal Version 1.0 Phase 1.0 Mandatory Alonso created on 16/04/2018. Last modified 26/04/2018

CONNECTORS

UseCaseLink Source -> Destination

From: User: Actor. Public Add Goal: UseCase, Public

Recover Account

UseCase in package 'Use Case'

Objective:

Makes the type of your account active so that you can use it again.

Pre-requisites:

There are not specific requisites to apply this use case.

- 1: You try to login as a user that deleted his/her account.
- 2. If the data entered was correct.
 - 2.1 An email is sent with a link so you can login properly.
- 2.2: You will be redirected to a page that says that you are recovering your account and you must go to your respective email to confirm the recovering.
- 2.3 If you click on the link in the email, the database will change the visibility of your account to active, and you will go to the overview page of your account as a normal login.

Recover Account Version 1.0 Phase 1.0 Mandatory Alonso created on 22/04/2018. Last modified 26/04/2018

CONNECTORS

UseCaseLink Source -> Destination

From: User: Actor, Public

Recover Account: UseCase, Public

Personalize

UseCase in package 'Use Case'

Objective:

Change the colors and the fonts of the design of the system.

Pre-requisites:

1: The user must be logged in the system.

Main Flow:

- 1: Inside your profile settings, you click on the button "Personalize".
- 2: A box will be displayed. In this box a palette will allow you to change the system colors. Also, a list of fonts will allow you to change the system letters. Finally, at the end of the box, there will be 2 buttons "Accept" and "Cancel".
- 3: If user clicks on "Accept" button, changes will be applied. Otherwise, the previous system aspect will be saved without changes.

Personalize Version 1.0 Phase 1.0 Proposed Alonso created on 22/04/2018. Last modified 26/04/2018

CONNECTORS

CONNECTORS

UseCaseLink Source -> Destination

From: User: Actor, Public

To: Personalize : UseCase, Public

Incomes Managment

UseCase in package 'Use Case'

Objective:

Complex functionality to add or delete incomes.

Pre-requisites:

1: The user must be logged in the application.

a) Creates an Income:

Main Flow:

- 1: A form is display to acquired necessary information.
- 2: The user must type in the next fields: Name[Obligatory], Amount[Obligatory], Payment Plan[Not obligatory], Category[Not obligatory] and Date[Automatic].
 - 3: Selects "Create" option.
 - 4: The system will validate incoming data. This action will prevent some attacks in the system.
 - 5: Once completed the validation process, new data will be sent to the database.
 - 6: A success message is displayed.

b) Deletes an Income:

Main Flow:

- 1: The user selects an existing income.
- 2: The user presses the "delete" button.
- 3: The user confirms the action.
- 4: A success message is displayed.

Incomes Managment Version 1.0 Phase 1.0 Mandatory Dave created on 09/04/2018. Last modified 26/04/2018

CONNECTORS



Extend «extend» Source -> Destination From: Payment Queue: UseCase, Public Incomes Managment: UseCase, Public



UseCaseLink Source -> Destination

From: User: Actor, Public

To: Incomes Managment : UseCase, Public

Expenses Managment

UseCase in package 'Use Case'

Objective:

Complex functionality to add or delete expenses.

Pre-requisites:

1: The user must be logged in the application.

a) Creates an Expense:

Main Flow:

- 1: A form is display to acquired necessary information.
- 2: The user must type in the next fields: Name[Obligatory], Amount[Obligatory], Payment Plan[Not obligatory], Category[Not obligatory] and Date[Automatic].
 - 3: Selects "Create" option.
 - 4: The system will validate incoming data. This action will prevent some attacks in the system.
 - 5: Once completed the validation process, new data will be sent to the database.
 - 6: A success message is displayed.

b) Deletes an Expense:

Main Flow:

- 1: The user selects an existing expense.
- 2: The user presses the "delete" button.
- 3: The user confirms the action.
- 4: A success message is displayed.

Expenses Managment Version 1.0 Phase 1.0 Mandatory Dave created on 09/04/2018. Last modified 26/04/2018

CONNECTORS

Extend «extend» Source -> Destination From: Payment Queue : UseCase, Public To: Expenses Managment : UseCase, Public

✓ UseCaseLink Source -> Destination

From: User: Actor, Public

To: Expenses Managment : UseCase, Public

Payment Queue

UseCase in package 'Use Case'

Objective:

Implement a queue to establish a payment plan.

Pre-requisites:

- 1: The user must be logged in the application.
- 2: The user must be adding a new income or expense.

Main Flow:

1: When a user saves an income or expense, an option to create a payment plan is display.

2: The user can create a payment plan with those days in which an expense or income is gonna be effected. By default each expense or income is unique.

- 3: Once done, the user press the button "Create"
- 4: The system add the new payment plan to the user account. In case of VIP user, an alarm function will activate to send notifications.

Secondary Flow:

2.1 By default and only if a user do not want to create a payment plan, the income or expense will be saved as unique.

Payment Queue Version 1.0 Phase 1.0 Mandatory Dave created on 13/04/2018. Last modified 26/04/2018

CONNECTORS

Extend «extend» Source -> Destination
 From: Payment Queue : UseCase, Public
 To: Expenses Managment : UseCase, Public

Extend «extend» Source -> Destination
 From: Payment Queue : UseCase, Public
 To: Incomes Managment : UseCase, Public