Item	Value	
Use Case	Manage Device	
Summary	All the functionalities in controlling and managing the electricity consumption monitoring device.	
Actor	Subscriber	
Precondition	The device must be powered and connected to the internet. The subscriber must have access to a computer with a browser installed that is connected to the internet. The subscriber must have a user profile and the device must be registered with the subscriber. The subscriber must be logged in.	
	Actor	System
	Access Main Control Panel	2. Display Main Control Panel
	3. Access Devices Panel	4. Display Devices Panel
Base Flow	5. Select <i>Device</i>	6. Display actions to perform
	7. Select an action to perform	Display configurations that can be added by Subscriber
	9. Add configurations	10. Validate and apply configurations
		 Notify Subscriber that the action has been successfully completed
Alternative Flow	· ·	
Comments	The process can be cancelled at any point in Base Flow 1 - 10 - before the system has performed the action. Compatible browsers: • Chrome Version 49 or newer	

Item	Value	
Use Case	Monitor Electricity Consumption	
Summary	The action of monitoring current electricity consumption of the plugged in Consumer	
Actor	Subscriber	
Precondition	The device must be powered and connected to the internet. The subscriber must have access to a computer with a browser installed that is connected to the internet. The subscriber must have a user profile and the device must be registered with the subscriber. A consumer must exist and be plugged into the device. The subscriber must be logged in.	
	Actor	System
	1. Access Main Control Panel	2. Display Main Control Panel
Page Flow	3. Access Electricity Monitoring	4. Display Electricity Monitoring
Base Flow	5. Select devices	6. Display data for the selected device
	7. Change refresh rate	8. Display data for the selected device
	9. Change interval	10. Data updates accordingly
Alternative Flow	 Change interval 10. Data updates accordingly Base Flow 1 - Access Main Control Panel a. System does not display Main Control Panel or displays an error b. Make sure that the computer has an internet connection and uses a compatible browser 	
Comments	The process can be cancelled at any point. Compatible browsers: • Chrome Version 49 or newer	

Item	Value	
Use Case	Generate Consumption Reports	
Summary	Generating consumption reports over a period per device/devices	
Actor	Subscriber	
Precondition	The subscriber must have access to a computer with a browser installed that is connected to the internet. The subscriber must have a user profile. There must be data from which to generate the report. The subscriber must be logged in.	
	Actor	System
	Access Main Control Panel	2. Display Main Control Panel
	3. Access Reports Panel	4. Display Reports Panel
Base Flow	5. Select Compare Devices	6. Display Compare Devices
	7. Select devices and periods	8. Generate report
	9. Select Compare Periods	10. Display Compare Periods
	11. Select devices and periods	12. Generate report
	13. Select Define Reports	14. Display Define Reports
	15. Enter reports configurations	16. Validate entered information
	17. Enable reports	18. Create reports based on configurations
Alternative Flow	 Base Flow 1 - Access Main Control Panel a. System does not display Main Control Panel or displays an error b. Make sure that the computer has an internet connection and uses a compatible browser c. Base Flow 1 Base Flow 17 - Applies the selected configurations a. The selected configurations are not valid b. Notify subscriber that the configurations are invalid and the task could not be performed c. Base Flow 5 Base Flow 18 - Generates a report with the provided configurations a. An error occurs making it impossible to generate the report b. Notify subscriber that the action could not be performed c. Base Flow 5 	
Comments	The process can be cancelled at any point in Base Flow 1 - 8 - before the system has performed the action. Compatible browsers: • Chrome Version 49 or newer	

Item	Value
Use Case	Manage Devices
Summary	Provides functionality to edit, delete, update or reset devices
Actor	Administrator
Precondition	The administrator must have access to the Google Cloud console.
Base Flow	Not relevant
Alternative Flow	Not relevant

Item	Valu	ue
Use Case	Visualize Historical Consumption	
Summary	Provides the functionality of viewing past electricity consumption data per device/devices	
Actor	Subscriber	
Precondition	The subscriber must have access to a computer with a browser installed that is connected to the internet. The subscriber must have a user profile and a device must have been registered with the user and collected data. The subscriber must be logged in.	
Base Flow	Actor	System
	Access Main Control Panel	2. Display Main Control Panel
	3. Select View Historical Consumption	4. Display View Historical Consumption
	5. Select devices	Display consumption for the available period
	7. Change time interval	Adjust the display of electricity consumption to match the selected time interval
	9. Remove <i>Device</i>	10. Display empty view
Alternative Flow Comments	 Remove Device 10. Display empty view Base Flow 1 - Access Main Control Panel System does not display Main Control Panel or displays an error Make sure that the computer has an internet connection and uses a compatible browser Base Flow 1 Base Flow 5 - Select option to add a device No available devices are present Make sure that the devices have been registered with the system Base Flow 7 - Change the time interval No data in that interval Notify subscriber that there is not information about electricity consumption in the selected period Base Flow 9 - Remove Device No current Devices selected Notify subscriber that there are no devices to be removed Base Flow 5 The process can be cancelled at any point in Base Flow 1 - 12 - before the system has 	
	performed the action. Compatible browsers: • Chrome Version 49 or newer	
Comments	This functionality is done through Google Cloud	and will be described in Administration Guide

Item	Value
Use Case	Manage User Profiles
Summary	Provides functionality to edit, delete or reset a user profile
Actor	Administrator
Precondition	The administrator must have access to the Google Firebase console.
Base Flow	Not relevant
Alternative Flow	Not relevant
Comments	This functionality is done through Google Firebase and will be described in Administration Guide

Item	Value	
Use Case	Register/Login Subscriber	
Summary	Provides functionality to create/login user profiles.	
Actor	Subscriber	
Precondition	The subscriber must have access to a computer with a browser installed that is connected to the internet.	
	Actor	System
	Access web-application	2. Display Login/Register Page
	3. Enter the registration data	4. Validate registration data
Base Flow	5. Select Register Action	6. Register subscriber
	7. Apply registration	8. Register new user into the system and redirect to <i>Main Control Panel</i>
	9. Enter login data	10. Validate login data
	11. Select Login Action	 Login subscriber and redirect to Main Control Panel
Alternative Flow	1. Base Flow 1 - Access Web application a. System does not display login/register page or displays an error b. Make sure that the computer has an internet connection and uses a compatible browser c. Base Flow 1 2. Base Flow 4/10 - Validate user data a. Invalid user data b. Notify subscriber that the provided that is not valid c. Base Flow 5 3. Base Flow 8 - Register new user into the system a. Could not register the user b. Notify subscriber that the task could not be performed c. Base Flow 5	
Comments	The process can be cancelled at any point. Compatible browsers: • Chrome Version 49 or newer	