

Official Requirements Document

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Abstract

A map with all the price of the gas station to inform the people which is the nearest and cheapest gas station around theirs. Both the people and the owner of gas station can share the location and the price of a gas station if they want.

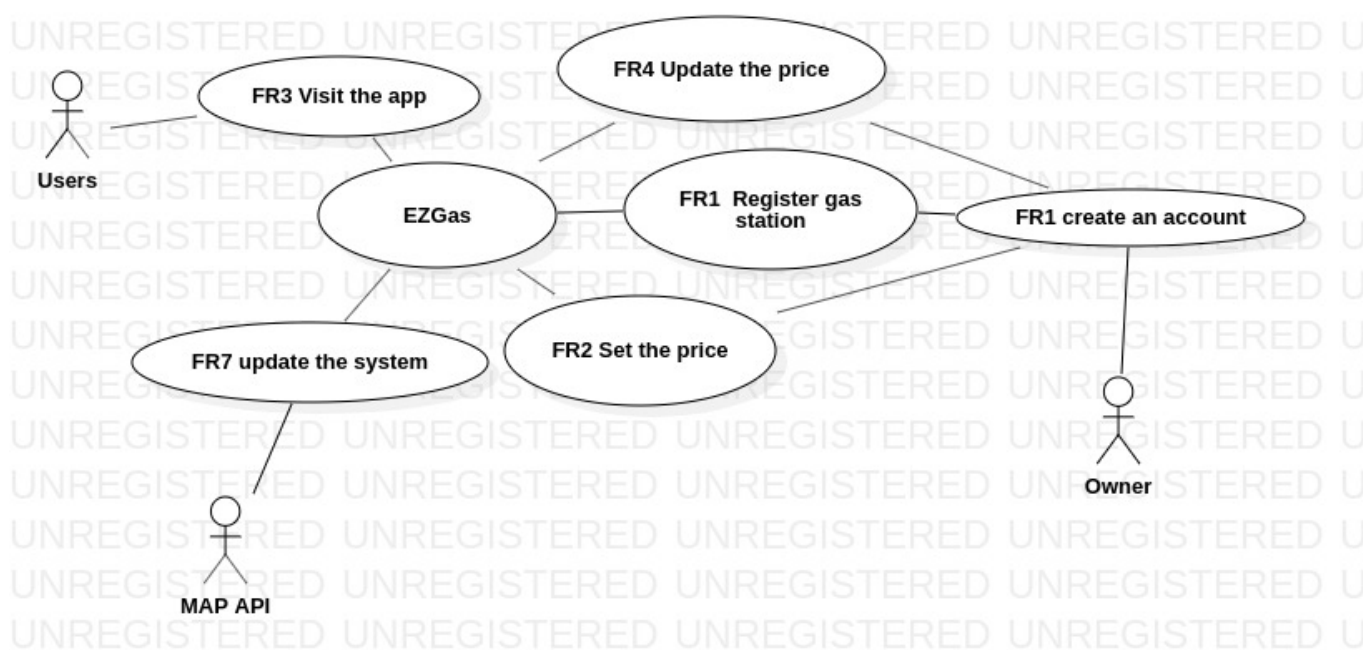
Stakeholders

Stakeholder name	Description
Owners	The person who owns the gas station and who can add or remove his gas stations. He also set and update the price of gas station

Stakeholder name	Description
Users	Use the application directly. They are interested where the stations are and the prices of gas station
Administrator	Administers the account of the app
MAP API	Changes the API of the app

Context Diagram and interfaces

Context Diagram



Interfaces

Actor	Logical Interface	Physical Interface
Users	Screen	Touch Screen
Owner	Screen	Touch Screen
Map API	Web Services (A function used to take Google Maps and to upload the gas station)	Internet Connection(API)
Administrator	Screen	Touch Screen

Stories and personas

Aldo is going to the sea in a beautiful summer day with his family: Ramona his wife, Giacomino and Andrè his sons. During the trip the gas of his machine is going to finish and he checks on EZGas app the nearest

and the cheapest gas station to full his machine. Without this app he should probably go to an other gas station and he probably pay more money than the gas station find on the app. In unlucky way he could finish the gas in his machine and he must find a gas station on foot.

Jonh buy a gas station and he registers his self on EZGas to put his gas station on the app and set the price of gas to rase money and to get noticed by peolpe that want buy gas for theirs machine. Every day he uodates ,if necessary, the price of gas of his gas station.

Functional and non functional requirements

Functional Requirements

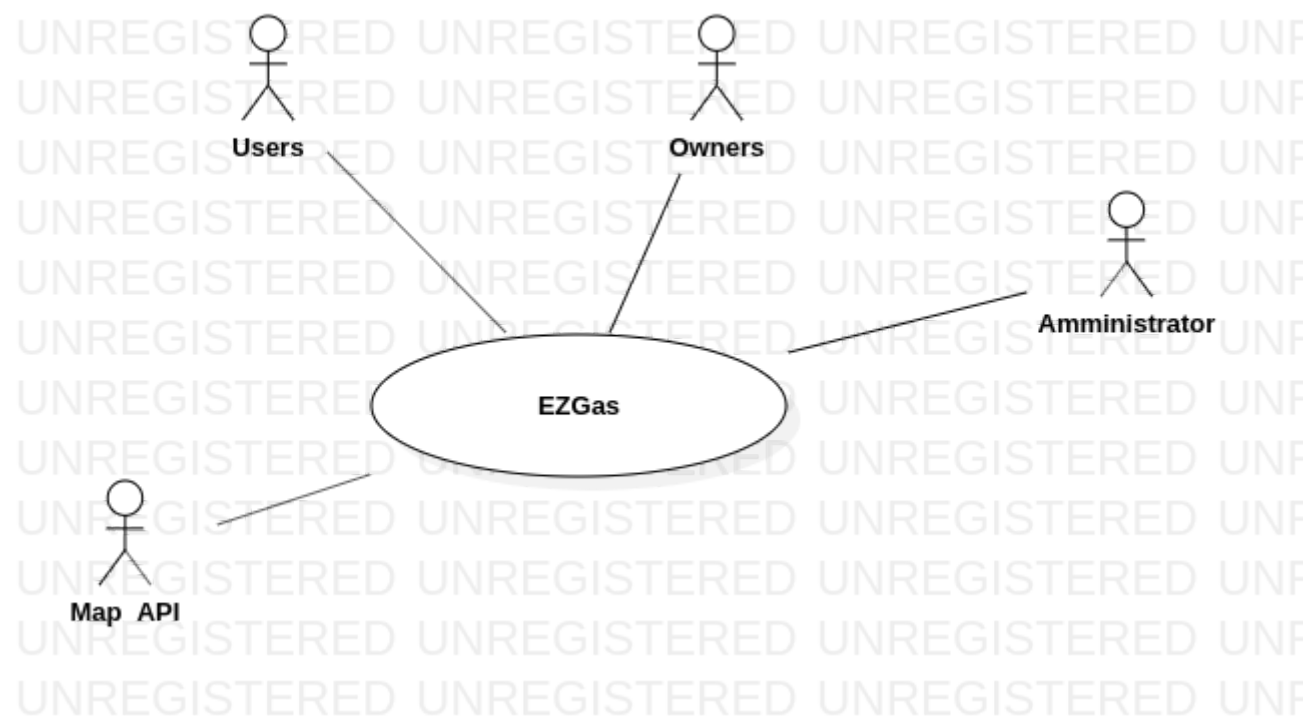
ID	Description
FR1	The owner shall be able to create an account on the app
FR2	The owner shall be able to registers his self on the app
FR3	The owner shall be able to set the price of gas on his gas station the first time that he registers his gas station
FR4	The user shall be able to visit the map on the app
FR5	The owner shall be able to update the price of FR1 every day
FR6	the system will put the gas station on the MAP
FR7	the system will show him all the gas stations on the map
FR8	The Administrator administers the app

Non Functional Requirements

ID	Type (efficiency, reliability, .. see iso 9126)	Description	Refers to
NFR1	Usability	Application should be used with no training by Users	FR3 FR6
NFR2	Performance	All functions should complete in < 0.5 sec	All FR
NFR3	Portability	The application runs on Android and IOS	All FR
NFR4	Portability	The application can be downloaded by the store	All FR
NFR5	Localisation	Decimal numbers use . (dot) as decimal separator	

Use case diagram and use cases

Use case diagram



Use Cases

Use case 1, UC1 - FR1 Owner creates an account

Actors Involved	Owner
Precondition	Owner O doesn't exist on the app
Post condition	Owner O has an account
Nominal Scenario	Owner registers his self on the app
Variants	

Use case 1, UC1 - FR2 Register Station

Actors Involved	Owner
Precondition	Station S doesn't exist on the app
Post condition	S registered on the system
Nominal Scenario	Owner registers his gas station on the system
Variants	

Use case 2, UC2 - FR3 Set Price

Actors Involved	Owner
Precondition	Station S exists on the app, station has no price
Post condition	S price is set

Actors Involved	Owner
Nominal Scenario	Owner sets the price of his gas station
Variants	

Use case 3, UC3 - FR4 Visit the app

Actors Involved	User
Precondition	User U go gon the Map to search a gas station
Post condition	User U find the gas station and touch its on the map to see the street to arrive to its
Nominal Scenario	The User use the app to look the map
Variants	

Use case 4, UC4 - FR5 Update from the account

Actors Involved	Owner
Precondition	Station S exists on the app, the price of his station is changed
Post condition	S price is updated
Nominal Scenario	When aprice changing is noticed, the Owner updates the price of his gas station
Variants	

Use case 5, FR8 Administers of the account

Actors Involved	Administrator
Precondition	The Owner O delete his account
Post condition	The data of th Owner are deleted from the app
Nominal Scenario	Administrator chacks the account on the map
Variants	

Relevant scenarios

Scenario 1

Scenario ID: SC1	Corresponds to UC3
Description	The User use the app
Precondition	He want refull the tank of his gas car
Postcondition	The Users known where is the nearest gas station

Scenario ID: SC1 Corresponds to UC3

Step#	Step description
1	The user visit the app
2	The user activates his geolocation on his mobile
3	The Map shows him all the gas station near him

Scenario 2

Scenario ID: SC2 Corresponds to UC1

Description	The owner registers his gas station
Precondition	The owner wants let know his gas station
Postcondition	The gas station in on the map of the app
Step#	Step description
1	The owner visit the app
2	The owner registers the data of his gas station and set the price of gas
3	The gas station in on the map

##Glossary

