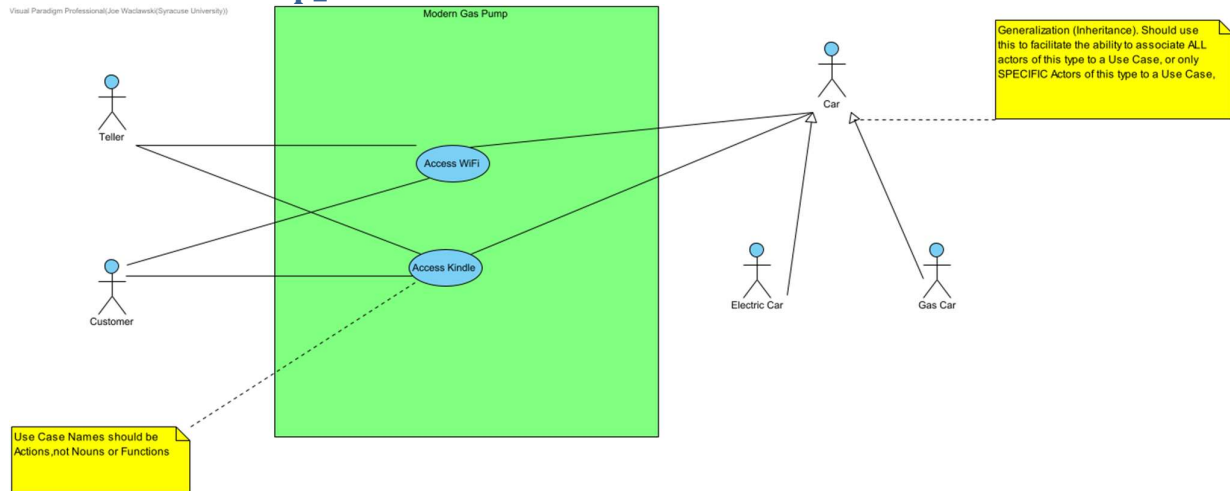


1. ModernGasPump_UseCases

Visual Paradigm Professional (Joe Wladkowski/Syracuse University)



♀ 2. Customer

ID: AC02

The walking and talking profits of the system. In other words, no customer, no profits. Customer is also the chaos creator of the system because they will break something or the other by Murphy's law.

2.1. Properties

Abstract	false
Leaf	false
Root	false

2.2. Relationships

Relationship	From	To
— unnamed	♀ Customer	● Access Kindle
— unnamed	♀ Customer	● Access WiFi

♀ 3. Car

ID: AC03









Cars are primary interactive components for the system. A customer might choose not to get WiFi on personal devices but the car will have no choice but to automatically interact with the system if it already has authentication.

It wishes that it weren't intelligent system so that it doesn't has to take this extra workload!

3.1. Properties

Abstract	false
Leaf	false
Root	false

3.2. Relationships

Relationship	From	To
← unnamed	 Car	 Electric Car
← unnamed	 Car	 Gas Car
— unnamed	 Car	 Access Kindle
— unnamed	 Car	 Access WiFi

4. Teller





ID: AC01

The front desk representative who will manage the store. He is also the admin for the WiFi system and Kindle.

4.1. Properties

Abstract	false
Leaf	false
Root	false

4.2. Relationships

Relationship	From	To
— unnamed	 Teller	 Access Kindle
— unnamed	 Teller	 Access WiFi

5. Access WiFi

ID: UC02

This Use Case provides the capability for the actors to attach their mobile device to the Internet using the free, on-site WiFi. This Use Case describes how this access can be obtained.

5.1. Primary Actors

 [Car](#),  [Customer](#),  [Teller](#)

5.2. Details

Level	N/A
Complexity	N/A
Use Case Status	Initial
Implementation Status	N/A
Preconditions	Actors have WiFi enabled devices.
Post-conditions	Actors have access to the Internet.
Author	N/A
Assumptions	N/A

5.3. Scenarios

5.3.1. WiFi Authentication

1. This scenario begin when the user brings up the available WiFi network list on your device.
2. WiFi Authentication
 - 2.1. Upon accessing the WiFi ID from the list, the user should be redirected to a web page where they create/put in their credentials for authentication.
3. Credential Verification
 - 3.1. Send an email/OTP to verify the credentials given.
4. Credential authentication
 - 4.1. Verify the credentials to authenticate it as a success or failure based on the authentication protocols used.
5. Authentication Success
 - 5.1. Verified credentials should be allowed to successfully access WiFi whenever in range.
 - 5.2. Time limits can be set based on the type of accounts.
 - 5.3. Authentication update can be automated to give seamless access to users across boards.
6. This scenario ends when the user is connected to the Internet

5.3.2. Authentication Failure

1. This scenario begins when the user fails authentication process for accessing WiFi.
2. Authentication Failure
 - 2.1. Non-verified credentials should not be allowed to access WiFi.
 - 2.2. Credential verification failure should automatically lead to no access.
 - 2.3. Significant time gaps between auto-authentication update should lead to re-verification process.
3. Re-direction to the initial loading page
 - 3.1. Redirect the user to initial loading page for re-verification of their credentials.
4. This scenario ends when the user has been redirected to go through the authentication process again.

5.3.3. New Name

- 1.

5.4. Requirements



5.4.1. Free Wifi

ID: REQ033

Users shall be able to connect to the WiFi without charge.









5.4.2. Secure WiFi

ID: REQ032

There shall be secure WiFi available.

5.5. Relationships

Relationship	From	To
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Relationship	From	To
— unnamed	 Teller	 Access WiFi
— unnamed	 Customer	 Access WiFi
— unnamed	 Car	 Access WiFi