# 1. 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!

## 1.1. Properties

|  |  |
| --- | --- |
| Abstract | false |
| Leaf | false |
| Root | false |

## 1.2. Relationships

| Relationship | From | To |
| --- | --- | --- |
| unnamed | [Car](#nVstFkmAUAV8EgnV) | [Electric Car](#_Iw.iUmAUAUA8Aos) |
| unnamed | [Car](#nVstFkmAUAV8EgnV) | [Gas Car](#bRo.iUmAUAUA8Ao2) |
| unnamed | [Car](#nVstFkmAUAV8EgnV) | Access Kindle |
| unnamed | [Car](#nVstFkmAUAV8EgnV) | [Access WiFi](#JsViaUmAUAVaZAvD) |

# 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](#A04tFkmAUAV8EgnA) | Access Kindle |
| unnamed | [Customer](#A04tFkmAUAV8EgnA) | [Access WiFi](#JsViaUmAUAVaZAvD) |

# 3. Electric Car

ID: AC04

Child component of cars.

Pros: Insane torque

Cons: Runs out of juice fast and takes a longer time to charge back up.

## 3.1. Properties

|  |  |
| --- | --- |
| Abstract | false |
| Leaf | false |
| Root | false |

## 3.2. Relationships

| Relationship | From | To |
| --- | --- | --- |
| unnamed | [Car](#nVstFkmAUAV8EgnV) | [Electric Car](#_Iw.iUmAUAUA8Aos) |

# 4. Gas Car

ID: AC05

Child component of cars.

Pros: Longer range and faster refueling time.

Cons: Environmental impact and taunts electric cars unnecessarily!

## 4.1. Properties

|  |  |
| --- | --- |
| Abstract | false |
| Leaf | false |
| Root | false |

## 4.2. Relationships

| Relationship | From | To |
| --- | --- | --- |
| unnamed | [Car](#nVstFkmAUAV8EgnV) | [Gas Car](#bRo.iUmAUAUA8Ao2) |

# 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](#nVstFkmAUAV8EgnV),  [Customer](#A04tFkmAUAV8EgnA),  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 |
| --- | --- | --- |
| unnamed | Teller | [Access WiFi](#JsViaUmAUAVaZAvD) |
| unnamed | [Customer](#A04tFkmAUAV8EgnA) | [Access WiFi](#JsViaUmAUAVaZAvD) |
| unnamed | [Car](#nVstFkmAUAV8EgnV) | [Access WiFi](#JsViaUmAUAVaZAvD) |