

GENERAL CHARACTERISTICS	
Intent	Allow the Customer to pre-pay with credit card at the pump.
Scope	Payment Method -
Primary Actor	Customer
Secondary Actors	Clerk
Preconditions	The display (LCD Screen) is currently asking the user for payment method
Trigger	The customer has decided which payment method to use.
Success Post Condition	The customer's credit card has been accepted , and the display asks user  to select fuel grade.
Failed Post Condition	The customer's credit card has been denied

#### Sunny Day Scenario

Step	Action
Start	This Scenario begins when the display is showing payment options, and the customer has decided which payment method to use
1	The customer selects Pay With Credit
2	The display prompts the customer to insert or tap credit card on the reader.
3	The user inserts/taps credit card
4	The display instructs the customer to enter their zip code using the keypad.
5	The credit card reader reads the card and makes a secure connection with the bank.
6	The credit card/zip card is authorized with bank, and the display instructs the user to select fuel grade.

#### Rainy Day Scenario - Unauthorized Credit Card

Step	Action
Start	.This Scenario begins when the display is showing payment options, and the customer has decided which payment method to use

1	The customer selects Pay With Credit
2	The display prompts the customer to insert or tap credit card on the reader.
3	The user inserts/taps credit card
4	The display instructs the customer to enter their zip code using the keypad.
5	The credit card reader reads the card and makes a secure connection with the bank.
6	The credit card/zip card is denied for payment.
7	The Clerk is alerted to the situation, and resets the pump back to the starting point using the in-store Pump Monitoring and Control station.

#### Requirements:

GP-1 The customer shall be able to interact with the gas pump using an LCD Display

GP-2 The customer shall be able to provide input using a keypad with the following buttons:

1. Digits 0-9
2. Cancel
3. Enter

GP-3 The customer shall be able to insert or tap their credit card.

GP-4 The display shall provide prompts to the user to support interactions with the credit card reader, such as “Insert or Tap credit card”, “Enter Zip Code”, “Credit Card Authorized”, “Credit Card Denied”.

GP-5 The displayed prompts shall be in the English language.

GP-6 The credit card reader shall have the ability to make an encrypted connection with the bank associated with the credit card.

GP-7 Encryption shall be done with a minimum 256 bit key.

GP-8 The credit card reader shall have a Blue Tooth connection with the in-store Pump Monitoring and Control station.

GP-9 The credit card reader shall support an internet connection with the bank via WiFi.