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| **Use Case ID** | UC 2 |
| **Use Case Name** | Update payment method |
| **Author Name** | Anshul Kumar |
| **Primary Actor** | Customer |
| **Actor’s Goal** | The customer is changing their payment method |
| **Business Value** | CRITICAL |

## Description

The actor updates their payment information, either switching between credit card and PayPal or inputting new credit card information.

## Main Success Scenario

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| **Step** | **Actor Action** | **System Response** |
| **1** | Actor selects to change payment plan | System brings up GUI to ask for change of credit card information or switching to PayPal. |
| **2** | Actor clicks change of credit card information | System brings up current credit card information in text fields to allow users to change information. |
| **3** | Actor changes credit card number, expiration date, and CCV, then presses submit. | System checks validity of new credit card information and brings up a success screen. |

## Alternative Success Scenario 1: Switch between PayPal/Credit card

**Trigger Condition**: Actor selects change payment plan

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| **Step** | **Actor Action** | **System Response** |
| **1** | Actor selects to change payment plan | System brings up GUI to ask for change of credit card information or switching to PayPal. |
| **2** | Actor clicks change from credit card to PayPal | System redirects actor to PayPal website. |
| **3** | Actor enters new information into PayPal | User awaits PayPal response. |
| **4** | Actor successfully completes payment on PayPal | System gets response from PayPal and displays a success screen. |

## Alternative Failure Scenario 2: Incorrect Card

**Trigger Condition**: User attempts to submit an updated credit card which is invalid.

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| **Step** | **Actor Action** | **System Response** |
| **1** | Actor selects to change payment plan | System brings up GUI to ask for change of credit card information or switching to PayPal. |
| **2** | Actor clicks change of credit card information | System brings up current credit card information in text fields to allow users to change information. |
| **3** | Inputs credit card information and presses submit | Checks the validity of the information and charges the actor. Card information is invalid and redirects user to input card information again. |

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| **Secondary Actors** | PayPal may be used as an actor for payment. |
| **Trigger Event** | User chooses to change payment plan. |
| **Precondition** | * User is logged in * User already has a current payment plan |
| **Frequency of Execution** | Depends on popularity of service. Assume 100 times/day |
| **Success Criteria (optional)** | System successfully validated user’s payment information (either directly using the credit card information or through PayPal). |
| **Development Cost** | AVERAGE |

## Issues / Risks

Security is paramount. Encryption at-rest and in-flight are mandatory. PCI compliance necessary.

## UML Activity Diagrams

Diagram

Description automatically generated