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| --- | --- |
| **Use Case ID** | UC 1 |
| **Use Case Name** | Entering Payment Information |
| **Author Name** | Anshul Kumar |
| **Primary Actor** | Customer |
| **Actor’s Goal** | The actor is inputting their payment method |
| **Business Value** | CRITICAL |

## Description

The user chooses from the payment methods available and then inputs their payment information.

## Main Success Scenario

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| **Step** | **Actor Action** | **System Response** |
| **1** | Begins payment process | Displays payment options (card or PayPal) and an FAQ on how to use the payment system. |
| **2** | Clicks on card | Displays text fields to input credit card information. |
| **3** | Inputs credit card information and presses submit | Checks the validity of the information and charges the actor. Displays a success screen. |

## Alternative Success Scenario 1: PayPal

**Trigger Condition**: PayPal option chosen

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| **Step** | **Actor Action** | **System Response** |
| **1** | Begins payment process | Displays payment options (card or PayPal) and an FAQ on how to use the payment system. |
| **2** | Clicks on PayPal | Redirects actor to PayPal to input their payment information. |
| **3** | Actor inputs payment information | System 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**: Invalid credit card information provided

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| **Step** | **Actor Action** | **System Response** |
| **1** | Begins payment process | Displays payment options (card or PayPal) and an FAQ on how to use the payment system. |
| **2** | Clicks on card | Displays text fields to input credit card 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 choosing a plan for streaming service. |
| **Precondition** | * User is logged in. * First time user is signing up for service. |
| **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