



# MIU AIRBNB

## Use Case Specification: Tenant payment using stripe

Version 1.1

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## 1. Tenant searches for rental property

### 1.1. Brief Description

The payment activity for tenants in the MIU AirBnB system using Stripe as the payment gateway.

### 1.2. Actors

- Tenant
- Stripe payment gateway
- Payment processing module

### Preconditions

- The tenant is registered and logged into the MIU AirBnB system.
- The tenant has selected a property to rent and confirmed the rental transaction.

### 1.3. Flow of Events

#### 1.3.1. Basic Flow

User Action	System Response
Tenant decides to confirm the rental transaction and clicks the “confirm rental” button	The system redirects the tenant to the payment page, displaying the rental details and the total rental amount.
Tenant reviews the payment details and clicks the “Pay Now” button.	The system connects with the Stripe Payment Gateway to initiate the payment process.  The Stripe payment gateway displays a secure payment form, requesting the tenant’s credit/debit card information.
Tenant enters their card information and clicks the “submit payment” button.	The Stripe Payment Gateway securely processes the payment transaction.  The Payment Processing Module receives the payment confirmation from the Stripe Payment Gateway.  The Payment Processing Module receives the payment confirmation from the Stripe Payment Gateway.  The Payment Processing Module receives the payment confirmation from the Stripe Payment Gateway.  The Payment Processing Module updates the tenant’s account balance and the rental status for the property.

	<p>The system displays a confirmation message to the tenant, indicating successful payment and rental confirmation.</p> <p>The tenant receives an email notification with the rental details and payment receipt.</p>
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### 1.3.2. Exceptional Flow

#### 1.3.2.1. *Payment Declined*

User Action	System Response
Tenant decides to confirm the rental transaction and clicks the “Confirm Rental” button.	The system redirects the tenant to the payment page, displaying the rental details and the total rental amount.
Tenant reviews the payment details and clicks the “Pay Now” button.	<p>The system connects with the Stripe Payment Gateway to initiate the payment process.</p> <p>The Stripe payment gateway displays a secure payment form, requesting the tenant’s credit/debit card information.</p>
Tenant enters their card information and clicks the “submit payment” button.	<p>The Stripe Payment Gateway processes the payment transaction but receives a declined response from the card issuer.</p> <p>The system displays an error message to the tenant, indicating that the payment was declined.</p> <p>The tenant is prompted to retry the payment or use a different payment method.</p>

### 1.4. Post-Conditions

- The tenant’s payment for the rental transaction is successfully processed using stripe.
- The property’s rental status is updated to “Paid” in the property listing database.

### 1.5. Business Rules

- Tenants must provide valid and authorized payment details for a successful transaction.
- Failed payment attempts may require the tenant to try again or use an alternative payment method.

### 1.6. Nonfunctional Requirements

- The payment process should be secure and comply with Stripe’s security standards.
- The payment response time should be fast to ensure smooth and efficient payment processing.

### 1.7. Sample Screen