

UC Name	<i>Process Secure Financial Transactions</i>
Summary	<i>Hosts should be able to securely process rental payments, security deposits, and additional fees through the platform.</i>
Dependency	<i>None</i>
Actors	<i>Host, Payment Gateway</i>
Preconditions	<i>Host must have an active listing, and guests must have provided payment information.</i>
Description of the Main Sequence	<ol style="list-style-type: none"> <li><i>1. Host initiates the payment process for rental payments, security deposits, or additional fees.</i></li> <li><i>2. The system securely communicates with the payment gateway to process the transaction.</i></li> <li><i>3. Payment gateway verifies payment details and processes the transaction securely.</i></li> <li><i>4. The system updates the transaction status and notifies the host and guest of the successful transaction.</i></li> </ol>
Description of the Alternative Sequence	<i>If the payment details are invalid or the transaction fails, the system provides appropriate error messages and prompts the host to retry or choose an alternative payment method.</i>
Non functional requirements	<i>Security: Payment processing must comply with industry-standard security protocols (e.g., PCI DSS) to protect financial data.</i>
Postconditions	<i>Transaction status is updated in the system, and both host and guest receive confirmation of the transaction.</i>

UC Name	<i>Integrate Payment Gateways</i>
Summary	<i>The system should integrate with reputable payment gateways to facilitate secure financial transactions.</i>
Dependency	<i>None</i>
Actors	<i>System Admin, Host, Payment Gateway</i>
Preconditions	<i>None</i>
Description of the Main Sequence	<ol style="list-style-type: none"> <li><i>1. System admin configures integration settings for selected payment gateways.</i></li> <li><i>2. Host selects preferred payment gateway for processing transactions.</i></li> <li><i>3. Payment gateway securely handles payment transactions between guests and hosts.</i></li> </ol>
Description of the Alternative Sequence	<i>If the selected payment gateway is unavailable or encounters errors, the system prompts the host to select an alternative payment gateway.</i>
Non functional requirements	<i>Reliability: Payment gateway integration should be reliable and minimize downtime to ensure seamless transactions.</i>
Postconditions	<i>Successful integration with selected payment gateways, enabling hosts to process transactions.</i>

UC Name	<i>Display Transaction Fees</i>
Summary	<i>The system should transparently display transaction fees associated with rental payments, security deposits, and additional fees.</i>
Dependency	<i>None</i>
Actors	<i>Host, Guest</i>
Preconditions	<i>Host has initiated a transaction.</i>
Description of the Main Sequence	<ol style="list-style-type: none"> <li><i>1. System calculates applicable transaction fees based on the transaction amount and fee structure.</i></li> <li><i>2. Transaction fees are displayed to the host and guest before confirming the transaction.</i></li> </ol>
Description of the Alternative Sequence	<i>If there are no applicable transaction fees, the system indicates that no fees will be charged.</i>
Non functional requirements	<i>Transparency: Transaction fees must be clearly presented to ensure transparency and avoid surprises for hosts and guests.</i>
Postconditions	<i>Host and guest are aware of the transaction fees before completing the transaction.</i>

UC Name	<i>Manage Security Deposits</i>
Summary	<i>The system should provide an escrow service to hold security deposits until the end of the rental period.</i>
Dependency	<i>Secure Payment Processing</i>
Actors	<i>Host, Guest</i>
Preconditions	<i>Host has specified a security deposit requirement for the listing.</i>
Description of the Main Sequence	<ol style="list-style-type: none"> <li><i>1. Guest submits the security deposit amount during the booking process.</i></li> <li><i>2. System securely holds the security deposit amount in escrow until the end of the rental period.</i></li> <li><i>3. Upon successful completion of the rental period, the system releases the security deposit to the host.</i></li> <li><i>4. In case of damage or disputes, the system facilitates resolution and manages the release of the security deposit accordingly.</i></li> </ol>
Description of the Alternative Sequence	<i>If there are disputes regarding damages, the system may involve a mediation process or arbitration to resolve the issue.</i>
Non functional requirements	<i>Trustworthiness: The escrow service must be reliable and instill trust between hosts and guests by ensuring fair handling of security deposits.</i>
Postconditions	<i>Security deposit is released to the host upon completion of the rental period, or as per the resolution of any disputes.</i>

UC Name	<i>Ensure Regulatory Compliance</i>
Summary	<i>The system should adhere to relevant financial regulations and standards to ensure legal compliance.</i>
Dependency	<i>Secure Payment Processing, Integration with Payment Gateways</i>
Actors	<i>System Admin, Legal Compliance Team</i>
Preconditions	<i>None</i>
Description of the Main Sequence	<ol style="list-style-type: none"> <li><i>1. System admin and legal compliance team review and ensure adherence to applicable financial regulations and standards.</i></li> <li><i>2. System implements necessary measures and protocols to comply with regulations, such as data protection laws.</i></li> </ol>
Description of the Alternative Sequence	<i>If there are changes in financial regulations, the system promptly updates its processes and procedures to maintain compliance.</i>
Non functional requirements	<i>Compliance: The system must continuously monitor and adapt to changes in financial regulations to avoid legal risks and penalties.</i>
Postconditions	<i>System operations remain compliant with relevant financial regulations, minimizing legal risks for the platform and its users.</i>