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COSC 412

DESIGN REVIEW

The project will be designed using a AGILE approach to software design in order to tackle minor problems that might occur since the software is being built from scratch.

**REQUIREMENTS**

1. Two Users (Tenant and Leasing office (LO)).
2. Tenant User should be able to write work orders to LO user.
3. System accepts payment via Credit/Debit Card input to pay rent.
4. System prints receipt to Tenant User as Output.
5. Tenant can set up automatic Payment.
6. LO can update rent amount.
7. LO resolves Work Orders.
8. Agile Method for Development.
9. LO can add fees (Late, pet, damage etc.) to a Tenant’s account.
10. User Authentication to prevent fraud.

**USER CASES**

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| --- | --- |
| Name | User Registration |
| Description | Creates a new profile for Tenant and stores them in a database. |
| Actors | Tenants |
| PreConditions | None |
| PostConditions | User is stored in a SQL database. |
| Main Course | -Asks User to input full name, Apt Number. |
| Alternate Course | AC1. User Already active  -Prompts User to log in  AC2. Wrong Info Entered  -Repeats Main Course |

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| --- | --- |
| Name | User Login |
| Description | User becomes active in the portal |
| Actors | Tenants |
| PreConditions | User account exists |
| PostConditions | User is active on Rent Portal |
| Main Course | -Asks User to input username and password |
| Alternate Course | AC1. Wrong Info Entered  -Repeats Main Course |

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| --- | --- |
| Name | Rent Payment |
| Description | Tenant makes rent payment. |
| Actors | Tenant |
| PreConditions | -User exists.  -There is a bill. |
| PostConditions | -Wipes Tenant bills.  -Displays Reciept. |
| Main Course | -Tenant views bill  -Tenant pays bill |
| Alternate Course | AC1. Invalid Payment  -Prompts Tenant to try different payment. |

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| --- | --- |
| Name | Automatic Payment |
| Description | Client saves his payment info |
| Actors | Tenant |
| PreConditions | -User exists |
| PostConditions | -Client payment is saved in the database. |
| Main Course | -Tenant inputs credit card details.  -SQL creates them in database. |
| Alternate Course | AC1. Invalid Payment  -Prompts Tenant to try different payment. |

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| --- | --- |
| Name | Work Orders |
| Description | Tenant writes work order/Complaint to Leasing office. |
| Actors | Tenant, Leasing Office. |
| PreConditions | None. |
| PostConditions | Creates WorkOrder Object for Leasing office. |
| Main Course | -Tenant inputs WorkOrder to Leasing office.  -Gets a confirmation that work order was submitted. |
| Alternate Course | AC1. Work order already exists  -Prompts user to enter new work order. |

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| --- | --- |
| Name | Resolve Work Orders |
| Description | Leasing Office views customer complaints and resolves it. |
| Actors | Leasing Office, Tenant |
| PreConditions | -Tenant puts in work order |
| PostConditions | -Work Order changed to resolved. |
| Main Course | -LO views Work Order.  -LO changes Work Order status to resolved. |
| Alternate Course | None. |

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| --- | --- |
| Name | Bills |
| Description | LO adds bills to clients |
| Actors | LO, Tenant |
| PreConditions | Tenant account exists. |
| PostConditions | -Tenant Account gets updated with new bill. |
| Main Course | -Pulls up Tenants account.  -Adds Bill amount and reason. |
| Alternate Course | AC1. If Bill already exists.  -Prompts LO to enter different bill. |