**SSN College of Engineering**

**Department of Information Technology**

**UIT2201 – Programming and Data Structures**

2021 – 2022

**Requirement Engineering & Risk Management**

**TEAM MEMBERS :**

1. Selcia S 3122 21 5002 098
2. Shashwat Shivam 3122 21 5002 099
3. Shasvat Vijay V 3122 21 5002 100
4. Sherwin Satya A 3122 21 5002 101
5. Shrikar S 3122 21 5002 102

**Objective of the project:**

A newly established housing community association wants to develop a system to manage the occupancy of their community. The system should be able to generate a block-wise list of occupied and unoccupied houses. The details of the occupants should also be displayed based on their flat numbers. The system should display the availability of houses based on the BHKs for new clients and any new occupancy must be updated in the system. The system should also track the payment of monthly maintenance charges for all the occupied flats.

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| **Sprint #** | **Epic** | **User Story #** | **Requirement / User Story** | **Essential or Desirable** | **Description of the Requirement** | **Remarks** |
| RS1 | Blocks | 1 | Housing Community should have blocks | Essential | 3 Blocks in the housing community. |  |
| RS2 | Flats | 2 | Each block must’ve flats | Essential | 10 Flats per block |  |
| RS 3 | Names | 3 | Each flat should be named | Desirable | Block name followed by Flat number | Block A: Flat 7=A7 |
| RS4 | Occupancy | 4 | Occupancy can be based on the history of the flat | Essential | Occupied if owner detail found; unoccupied if not found. |  |
| RS5 | BHK Type | 5 | Each block should have a specified BHK Type | Desirable | Blocks A and B : 2 BHK  Block C : 3 BHK |  |
| RS6 | Fee | 6 | If a flat is occupied, then it must have an owner record in which the monthly maintenance charge can be tracked. | Desirable | Maintenance Fee:  2 BHK: 1000/-  3 BHK: 1500/- |  |

**REQUIREMENTS SPECIFICATION (RS)**

**RISK MANAGEMENT**

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| **Risk #** | **Risk Description** | **Probability** | **Impact** | **Mitigation Plan** |
| 1. | TIME CRUNCH | High | High | To overestimate time needed to complete the tasks in the planning phase. |
| 2. | LACK OF CLARITY | Low | Mid | When planning a project, check & recheck your requirements to ensure everything is in space. |
| 3. | COMMUNICATION | Mid | Mid | Don't send 3 paragraph email to Developers, have a call instead. |
| 4. | ABSENTEEISM | Low | Low | An organization should offer a reward program for good attendance. |
| 5. | POOR SCHEDULING | High | Low | The project schedule must be accessible to every team member. |
| 6. | HEALTH ISSUES | High | High | The team members must be able to cope up in case of any health issues of other team members. |
| 7. | TECHNOLOGY RISKS | Mid | High | Secure computers, servers and wireless networks, use anti-virus and anti-spyware protection, and firewalls, regularly update software to the latest versions, use data backups that include off-site or remote storage, secure your passwords. |