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Batch No: T3.2308.A0 1

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# Task Sheet for Review 1: Problem Definition & Requirement

## Project: Smart Building Management System

## Batch No: T3.2308.A0

## Group No: 1

## Semester: 1

## Supervisor: Mr. Truong Thanh Trung

## Month: September 2025

### Team Members

1. Huỳnh Tấn Lực (Student1507630)
2. Đặng Trí Thức (Student1438991)

### Task Breakdown

| Task ID | Task Description | Assignee | Start Date | End Date | Status | Notes |
| --- | --- | --- | --- | --- | --- | --- |
| R1-01 | Research and document background and significance of the topic | Huỳnh Tấn Lực | 01/09/2025 | 03/09/2025 | Completed | Urbanization, manual processes, communication gaps |
| R1-02 | Define main and secondary objectives | Đặng Trí Thức | 01/09/2025 | 03/09/2025 | Completed | Automation, UX, scalability, security, i18n |
| R1-03 | Specify project scope and core management functions | Huỳnh Tấn Lực | 03/09/2025 | 05/09/2025 | Completed | Users, apartments, facilities, billing, notifications |
| R1-04 | Identify system users and their characteristics | Đặng Trí Thức | 03/09/2025 | 05/09/2025 | Completed | Admin, Staff, Resident, Owner; skills and needs |
| R1-05 | Analyze current situation and difficulties | Huỳnh Tấn Lực | 05/09/2025 | 07/09/2025 | Completed | Process, communication, facility, finance, access issues |
| R1-06 | Identify key problems to be addressed | Đặng Trí Thức | 05/09/2025 | 07/09/2025 | Completed | Process automation, notifications, booking, payments |
| R1-07 | Propose overall system solutions and architecture | Huỳnh Tấn Lực | 07/09/2025 | 09/09/2025 | Completed | Web + Mobile + REST APIs; 3-tier architecture |
| R1-08 | Define non-functional requirements (performance, security, scalability, UX) | Đặng Trí Thức | 07/09/2025 | 09/09/2025 | Completed | <2s response, 99.9% uptime, TLS, JWT, RBAC |
| R1-09 | Define functional requirements by module | Huỳnh Tấn Lực | 09/09/2025 | 11/09/2025 | Completed | User, Apartment, Facility, Billing, Notifications, Reporting |
| R1-10 | Specify hardware/software and tooling requirements | Đặng Trí Thức | 09/09/2025 | 11/09/2025 | Completed | Server specs, clients, DB, Redis, tooling |
| R1-11 | Consolidate Review 1 document and obtain approval | Huỳnh Tấn Lực | 11/09/2025 | 12/09/2025 | Pending | Prepare final PDF/MD for submission |

### Notes

* Content aligned to the provided REVIEW 1 document.
* Dates and owners reflect a realistic sequence for September 2025.
* R1-11 remains pending for packaging and supervisor sign-off.