Polytechnic University of the Philippines

Sta. Mesa, Manila

**CMPE 30074 : Software Design**

**Apartments Rental and Reservation System**

**Version <1.0>**

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| Apartments Rental and Reservation System | Version: <1.0> |
| Software Design Document | Date: 2020-02-24 |
| SDD-ARRS | |

**Revision History**

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| **Date** | **Version** | **Description** | **Author** |
| 24/02/2020 | <1.0> | Initial Version of Document | The Proponents |
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| --- | --- |
| Apartments Rental and Reservation System | Version: <1.0> |
| Software Design Document | Date: 2020-02-24 |
| SDD-ARRS | |

**Table of Contents**

1. Preface …………………………………………………………………...
2. Introduction ………………………………………………………………
3. Glossary ………………………………………………………………….
4. User requirements Definition ………………………………………….
5. System architecture …………………………………………………….
6. System requirements specification …………………………………..
7. System models ………………………………………………………
8. System evolution ……………………………………………………
9. Appendices ………………………………………………………………
10. Index ………………………………………………………………………

|  |  |
| --- | --- |
| Apartments Rental and Reservation System | Version: <1.0> |
| Software Design Document | Date: 2020-02-24 |
| SDD-ARRS | |

1. **Preface**

This project is an apartment rental and reservation system developed to comprehend the basic needs of a small business. The initial version 0.0.1 …… (rationale of a new version and a summary of the changes made in each version)

|  |  |
| --- | --- |
| Apartments Rental and Reservation System | Version: <1.0> |
| Software Design Document | Date: 2020-02-24 |
| SDD-ARRS | |

1. **Introduction**

Software Design Document provides necessary information of the details of the system to be built. The purpose of this documentation is to provide a description on the design of the system and to clearly understand what is to be built and what are the processes to be taken for the expected outcome.

The Software Design Document is for Apartment Rentals and Reservation System which will function as a checker for the availability of the units selected and to be able to reserve the chosen unit by the user. By then, the system will store the status of the unit (reserved or not), depending on the user.

|  |  |
| --- | --- |
| Apartments Rental and Reservation System | Version: <1.0> |
| Software Design Document | Date: 2020-02-24 |
| SDD-ARRS | |

1. **Glossary**

*C#* A general-purpose, [multi-paradigm programming language](https://en.wikipedia.org/wiki/Multi-paradigm_programming_language) encompassing [strong typing](https://en.wikipedia.org/wiki/Strong_typing), [lexically scoped](https://en.wikipedia.org/wiki/Lexically_scoped), [imperative](https://en.wikipedia.org/wiki/Imperative_programming), [declarative](https://en.wikipedia.org/wiki/Declarative_programming), [functional](https://en.wikipedia.org/wiki/Functional_programming), [generic](https://en.wikipedia.org/wiki/Generic_programming), [object-oriented](https://en.wikipedia.org/wiki/Object-oriented_programming) ([class](https://en.wikipedia.org/wiki/Class_(computer_science))-based), and [component-oriented](https://en.wikipedia.org/wiki/Component-based_software_engineering) programming disciplines.

*SharpDevelop*An open-source IDE for the .NET platform.

*Microsoft Access*  Adatabase management system from Microsoft that combines the relational Microsoft Jet Database Engine with a graphical user interface and software-development tools.

|  |  |
| --- | --- |
| Apartments Rental and Reservation System | Version: <1.0> |
| Software Design Document | Date: 2020-02-24 |
| SDD-ARRS | |

1. **User Requirements Definition**

The Apartments Rental and Reservation System offers a convenient way to enable the System Users to inquire for the availability of units and reserve their chosen unit. As the System User tries to inquire, the system will show either the units are available

e or not. When the System User reserve a unit, the system will automatically make the unit unavailable for the other users.

Displays the availability of the units and its location

Apartments Rental and Reservation System

System User

Inquire/Reserve Unit(s)

* Add/edit/update/delete an entry
* Room availability and reservation

|  |  |
| --- | --- |
| Apartment Rentals and Reservation System | Version: <1.0> |
| Software Design Document | Date: 2020-02-24 |
| SDD-ARRS | |

1. System Architecture

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| --- | --- |
| Apartment Rentals and Reservation System | Version: <1.0> |
| Software Design Document | Date: 2020-02-24 |
| SDD-ARRS | |

1. System requirements specification

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| --- | --- |
| Apartment Rentals and Reservation System | Version: <1.0> |
| Software Design Document | Date: 2020-02-24 |
| SDD-ARRS | |

1. System Models

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| --- | --- |
| Apartment Rentals and Reservation System | Version: <1.0> |
| Software Design Document | Date: 2020-02-24 |
| SDD-ARRS | |

1. System Evolution

|  |  |
| --- | --- |
| Apartment Rentals and Reservation System | Version: <1.0> |
| Software Design Document | Date: 2020-02-24 |
| SDD-ARRS | |

1. Appendices (hardware and database descriptions)

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| --- | --- |
| Apartment Rentals and Reservation System | Version: <1.0> |
| Software Design Document | Date: 2020-02-24 |
| SDD-ARRS | |

1. Indexes