

HOTEL RESERVATION SYSTEM

System Design Description

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TABLE OF CONTENTS

1. Introduction.....	3
1.1. Purpose.....	3
1.2. Document Conventions.....	3
1.3. Problem Definition and Project Scope.....	3
1.4. References.....	3
2. System Overview.....	4
2.1. User Characteristics.....	4
2.2. Context Model of the System.....	4
2.3. Interaction Model of the System.....	5
3. System Architecture.....	6
3.1. High-level Architectural Design.....	6
3.2. Subsystem Model.....	7
3.3. Sequence Diagram.....	8
4. Appendix.....	9

1. INTRODUCTION

1.1. Purpose

The System Design Description (SDD) document will provide detailed descriptions of the architecture and interactions of the Hotel Reservation System. The document will act as a guideline for the developers to implement and test the system according to the end users' needs. We aim to create a high quality, easy-to-use system for guests and staff alike since it will give the guests their first impression of the hotel.

1.2. Document Conventions

This SDD document has been prepared in accordance with the *IEEE Standard for Information Technology—System Design—Software Design Descriptions (IEEE Std 1016-2009)*.

1.3 Problem Definition and Project Scope

Without an online reservation system, the business for a hotel would significantly drop. Therefore, this Hotel Reservation System is being developed for customers to be able to book rooms online. The system will be an online web site that displays general information about the hotel, the types of rooms and their properties, and allows the customer to make a reservation. The system will also allow system admins to view and manage these reservations.

1.4 References

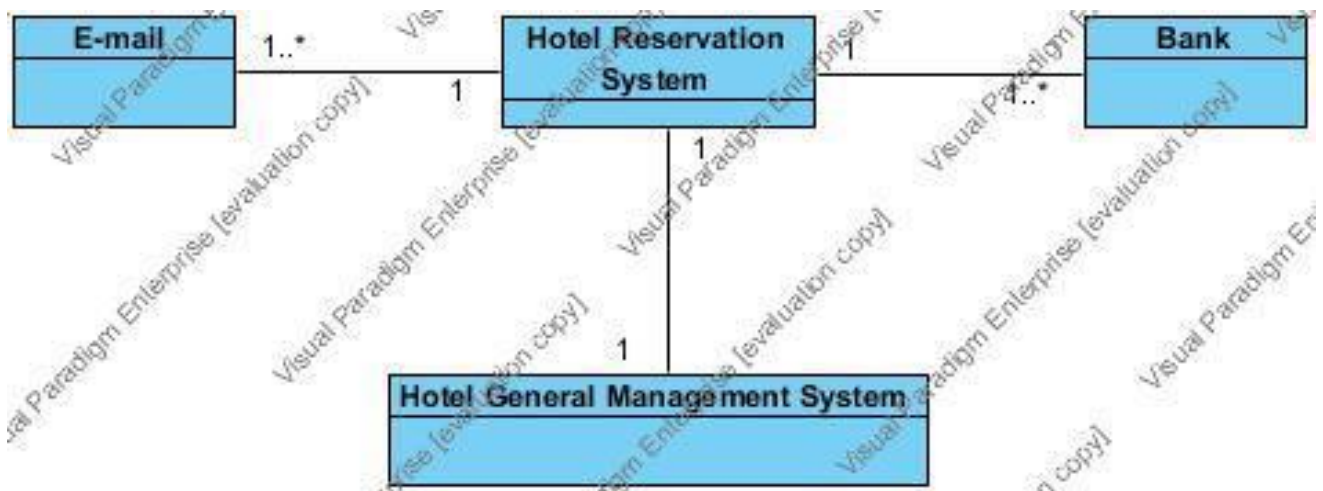
- [1] Ian Sommerville, *Software Engineering*, Pearson (9th Edition, 2010).
- [2] Software Design Document (SDD) Template (summarized from IEEE STD 1016).
<http://www.zeynepaltan.info/SDD-Template.pdf>

2. SYSTEM OVERVIEW

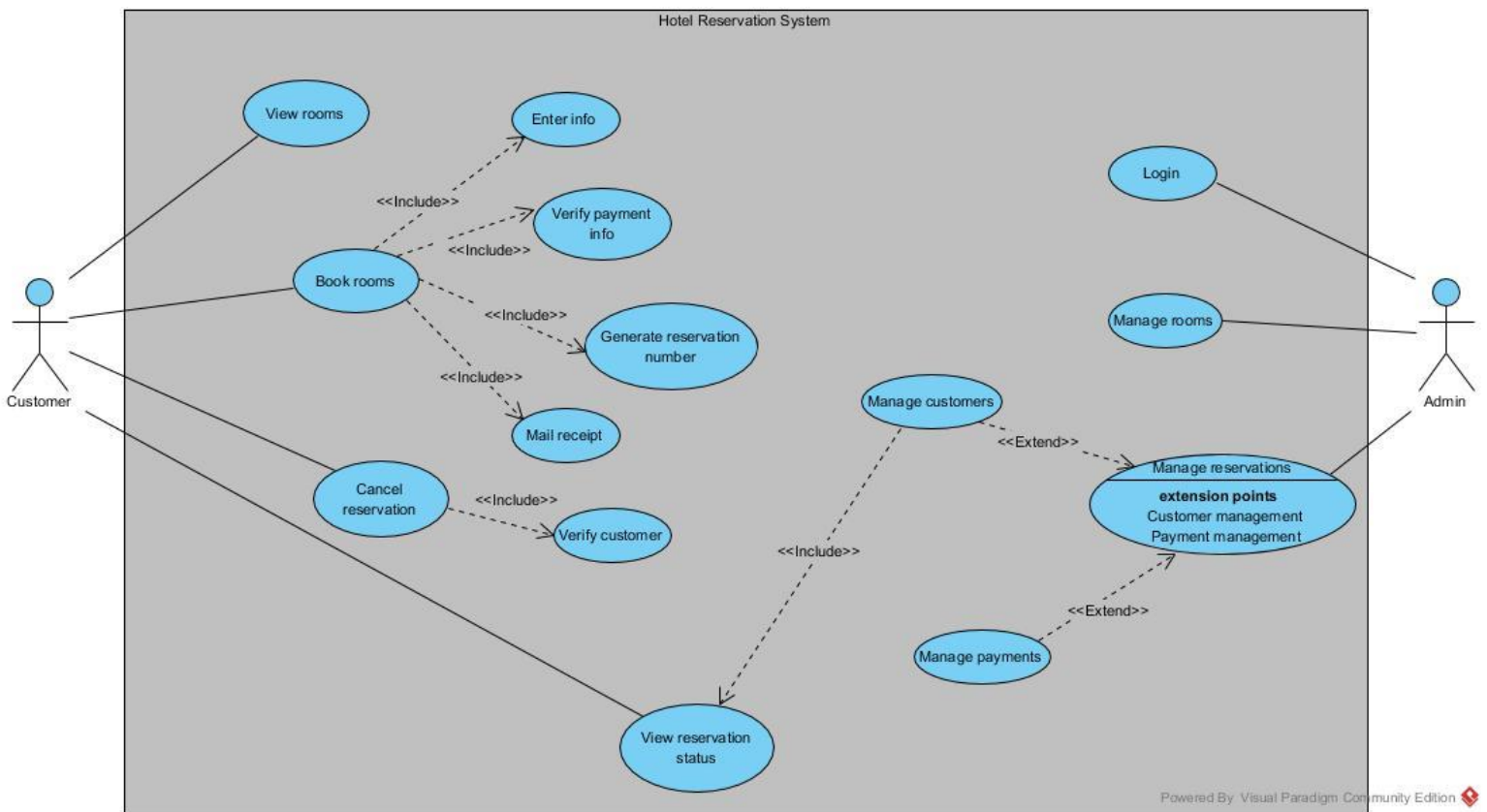
2.1. User Characteristics

The system shall be used by hotel customers and admins. To operate in the system, the users shall need a working internet connection and a basic knowledge of computers. Otherwise, the users do not need to be proficient; the system shall be designed in a way as to make transactions understandable, fast, and easy. The same shall apply to the management of the system for the admins.

2.2. Context Model of the System

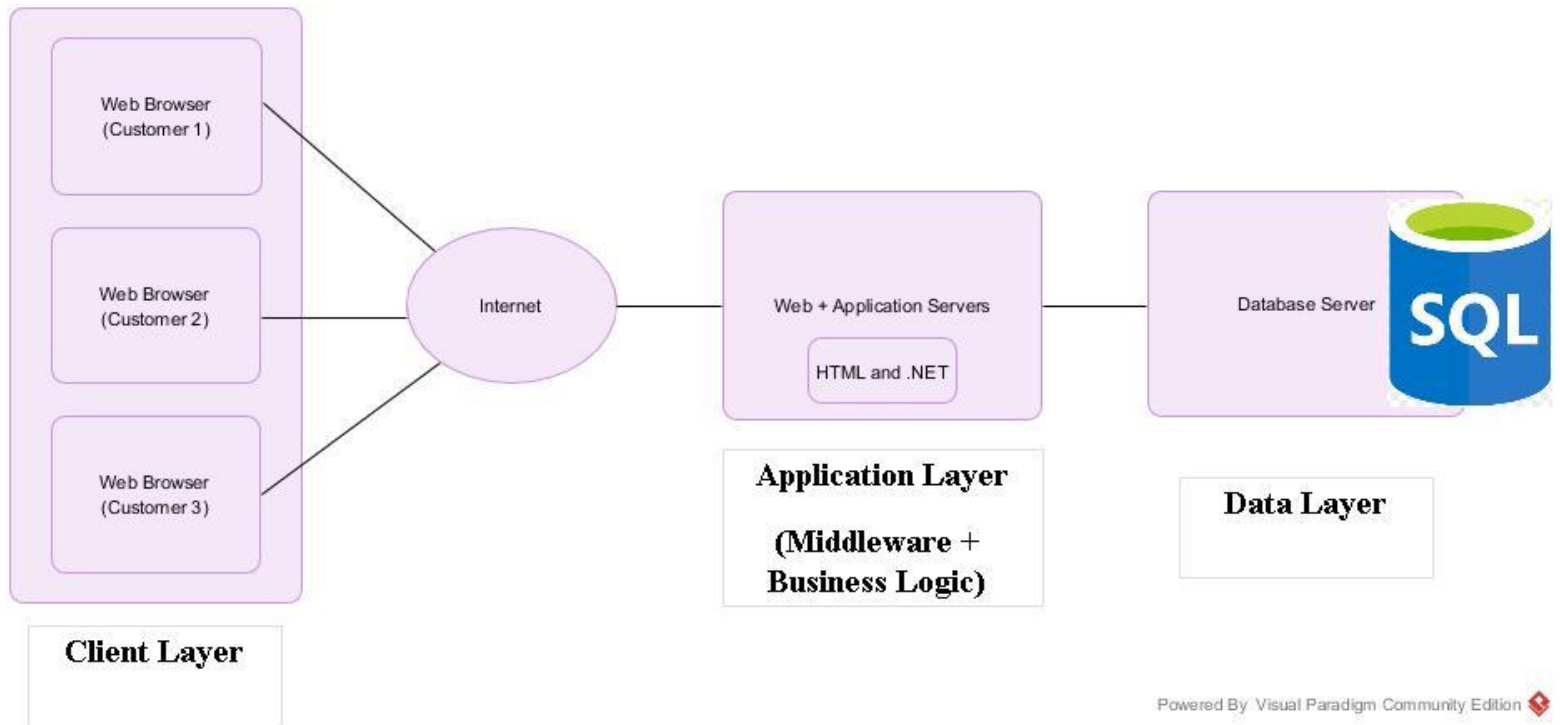


2.3. Interaction Model of the System

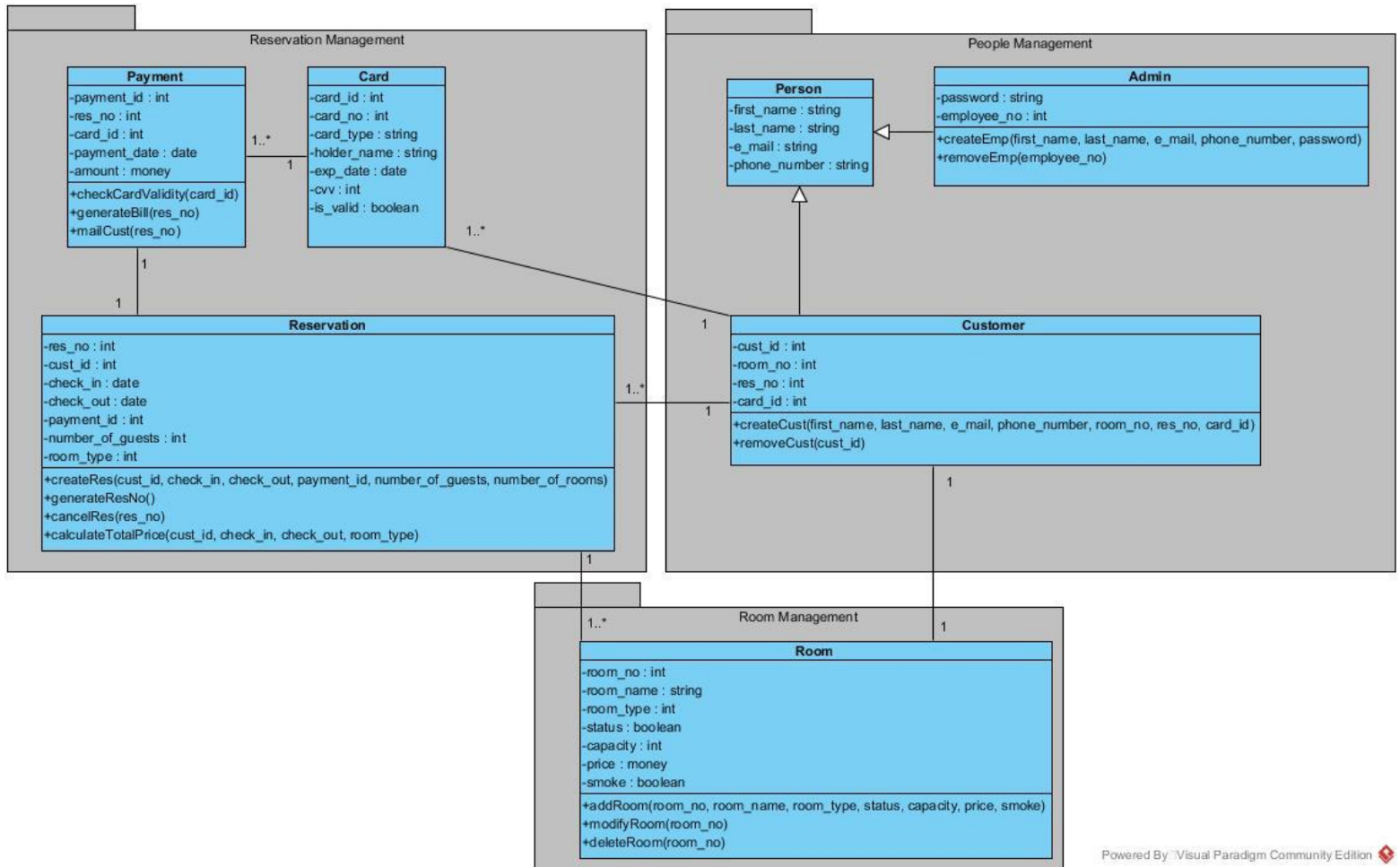


3. SYSTEM ARCHITECTURE

3.1. High-level Architectural Design

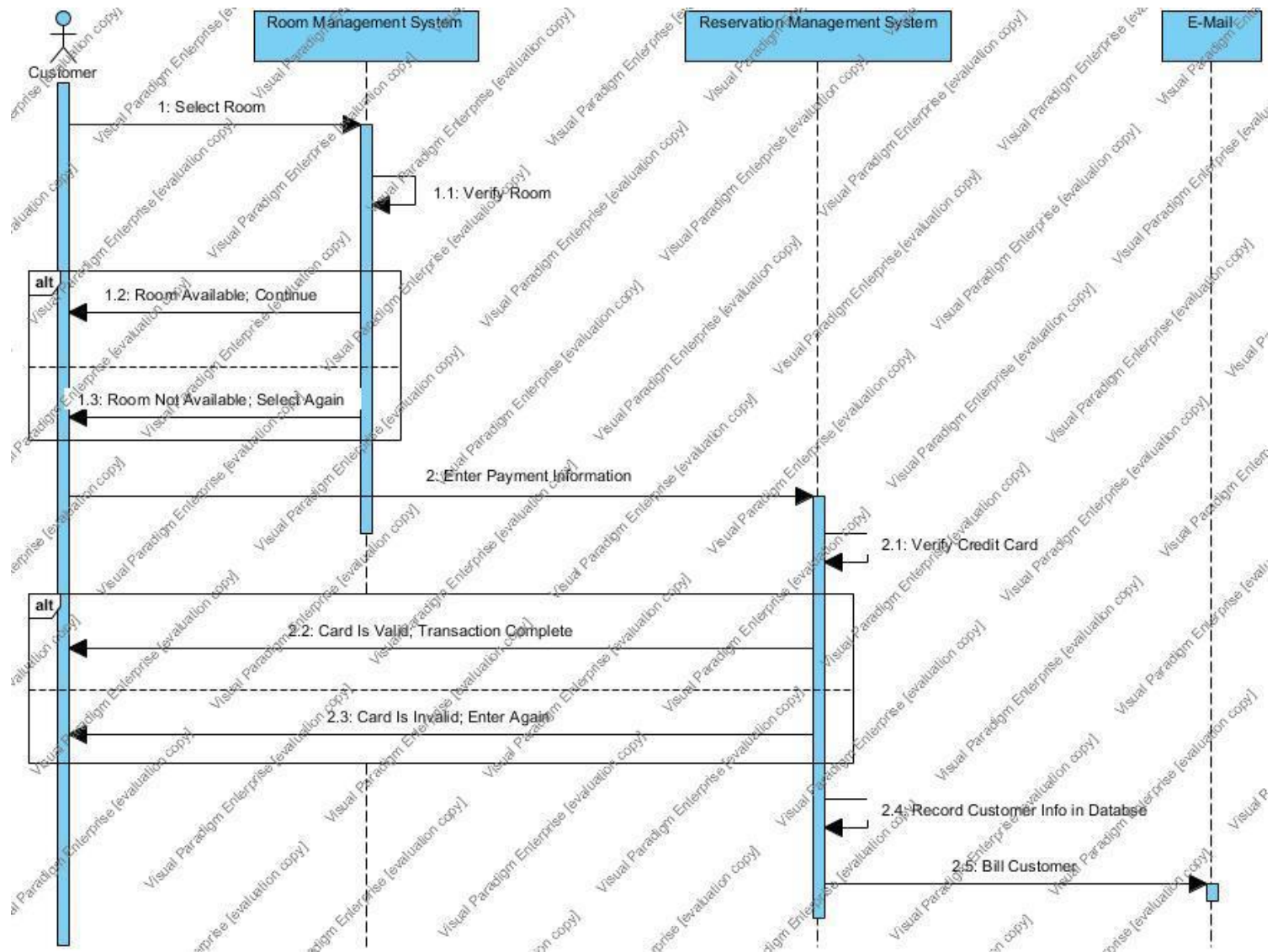


3.2. Subsystem Model



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3.3. Sequence Diagram



4. APPENDIX

This SDD document is intended to be read alongside our Software Requirements Specification (SRS) document. For further understanding, please refer to it.