Product Requirements Document
Submission 1 Specification

Alphecca
SWEN90007 SM2 2021 Project

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THE UNIVERSITY OF MELBOURNE

SCHOOL OF
COMPUTING &
INFORMATION
SYSTEMS

Revision History

Date	Version	Description	Author
08-08-2022	01.00-D01	Add the domain model and its descriptions for the domain model	Haimo Lu
09/08/2022	01.00-D02	Update domain	Xiaotian Li

Contents

1. Introduction

1.1 Proposal

This document specifies the SWEN90007 project use cases, actors to be implemented, and the system's domain model.

1.2 Target Users

This document is mainly intended for SWEN90007 students and teaching team.

1.3 Conventions, terms and abbreviations

This section explains the concept of some important terms that will be used throughout this document. These terms are detailed alphabetically in the following table.

Term	Description
HBS	Hotel Booking System

2. Actors

Actor	Description
Admin	Admin is a user role of the system, they are the HBS provider that aggregate all hotels created in the system, they can also view all users and stays users have booked.
Customer	Customer is a user role of the system, they can book hotels, view, and manage their bookings.
Hotelier	Hotelier is a user role of the system, they can register and manage their hotels with different configurations in the system and can manage bookings they received from customers.

3. Use Cases

3.1 *<students to add info here>* Use Case 1: Student Undertakes Examination
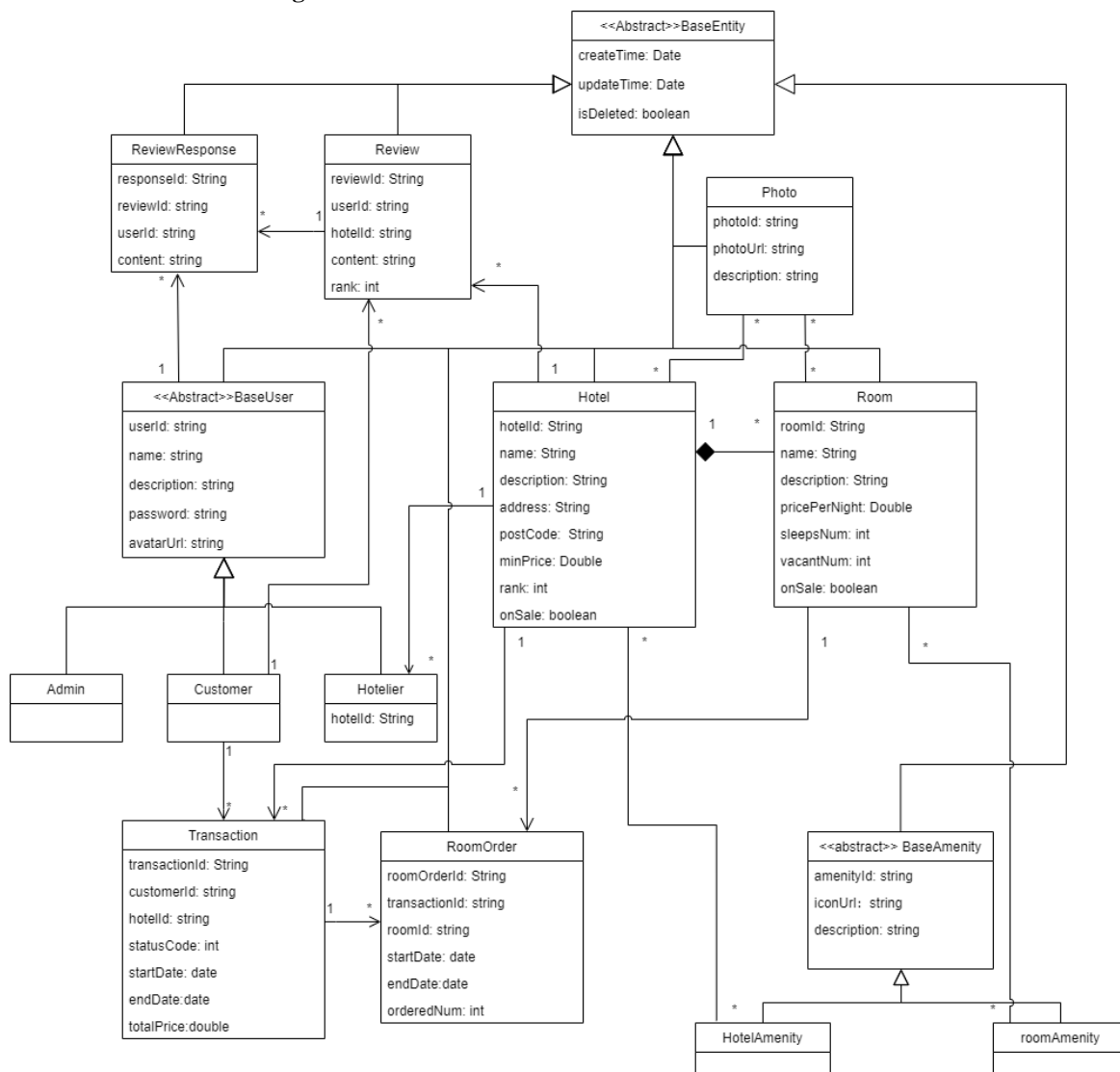
Actors

1. Student

Basic Flow

On Wednesdays, students of SWEN900XX log into the Online Examination Application to undertake a written examination. After logging in, they select the subject from their list of enrolled subjects. Then they select the examination corresponding to that Wednesday. They commence the exam, entering an answer or skipping each question in the examination. Once they have provided a response to each question, they submit the examination for marking.

4. Domain Model

4.1 Domain Model Diagram

4.2   Domain Model Description

4.2.1   Object

Object Type:	Format:
Concrete Class	**Bolded**
Abstract Class	Non-Bolded
Interface	*Italicized*

Object	Description
BaseEntity	Super domain class for all concrete entities, it contains shared fields including entity creation/updating time, and the flag for logic deletion according to the database best practice.
Review	Review is the feedback for the hotel from Customer.
ReviewResponse	It is the response for one review, it can be created by all users.
BaseUser	Super domain class for all users in the system
Admin	Admin is one role of the system, they are the HBS provider that aggregate all hotels created in the system, they can also view all users and stays users have booked.
Customer	Customer is a user role of the system, they can book hotels, view, and manage their bookings.
Hotelier	Hotelier is a user role of the system; they can register and manage their hotels with different configurations in the system and can manage bookings they received from customers.
Transaction	Transactions are created when customers book stays, transactions are owned by the customers and also the respective hotel. One Transaction can hold multiple room orders.
RoomOrder	It is the domain for room orders in one transaction.
Photo	It is the domain for photo resources, it records photo url and the entity it is attached to. The same photo entity can also be reused by different hotels and rooms.
Hotel	It is the domain for hotel item.

Room	It is the domain for room item. It is the necessary component of the hotel domin.
BaseAmenity	Super domain class for all Amenity class. It contains shared fields.
HotelAmenity	HotelAmenity describes facilities or amenities a hotel has in public area. It may contain customized fields in the future extension.
RoomAmenity	RoomAmenity describes facilities or amenities a room has. It may contain customized fields in the future extension.

4.2.2 Inheritance

Super Class	Sub Class	Description
BaseEntity	ReviewResponse	BaseEntity class provides shared fields like creation/deletion time, and logic deletion flag. It is created based on database design's best practice.
	Review	
	BaseUser	
	Hotel	
	Photo	
	Room	
	BaseAmenity	
BaseUser	Admin	BaseUser class provides shared fields among all roles in the system, while each concrete user class may have their own fields for future extension.
	Customer	
	Hotelier	
BaseAmenity	HotelAmenity	BaseAmenity class provides shared fields among all amenities. Each concrete user class may have their own fields for future extension.
	RoomAmenity	