



Canidae Resort

Analysis and Design

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Canidae Resort	Version 0.3
Analysis and Design	27/05/2018
CANIDAE_PROJ_A&D	

Date	Version	Description	Author
1/04/2018	0.1	Document created	MDV
21/04/2018	0.2	Iteration 1.2 added + Iteration 1.1 updated	MDV
27/05/2018	0.3	Iteration 2 + Bibliography + Construction & Transition added	MDV

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1. Project Specification

This document is aimed at collecting, analyzing and defining the high-level needs and features of Canidae Resort, a dog hotel web application. It focuses on the capabilities needed by the stakeholders and the target users and their need of existence. The details of how Canidae Resort fulfils these needs are detailed in the use-case and supplementary specifications documents.

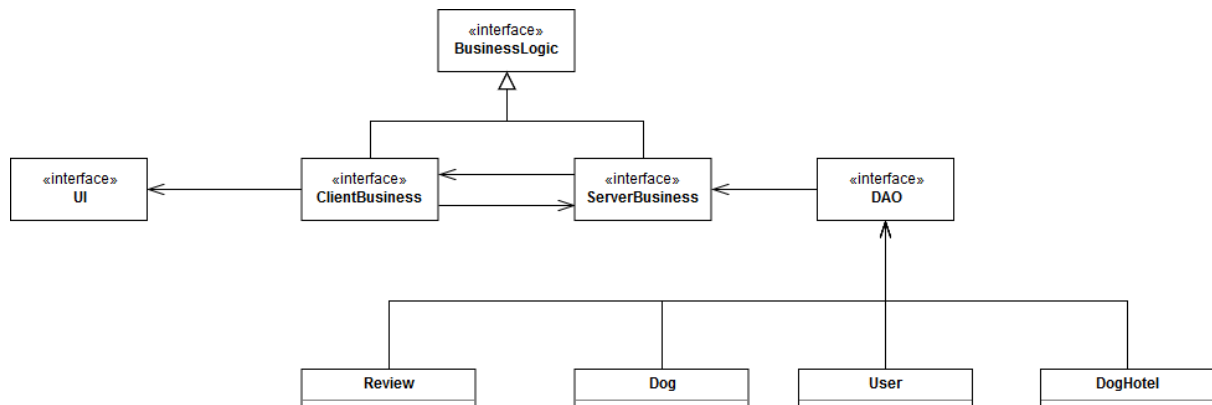
The purpose of the application is to provide means for dog owners who wish to leave home for longer periods of time to finding a place for their pet to stay. The project aims to deliver a web application which represents an online environment for existing dog hotels (which must register to this service) as well as a search engine for room in registered hotels.

The application will provide the following features:

- Login, register and account management services;
- Dog hotel search engine;
- User review system;
- Provide dog breed information so owners can make an informed decision;
- Save favorite dog hotels and book with one click to that hotel;
- Provide a list of user favorites to reduce search times;
- Save a bank account for faster payment.

2. Elaboration – Iteration 1.1

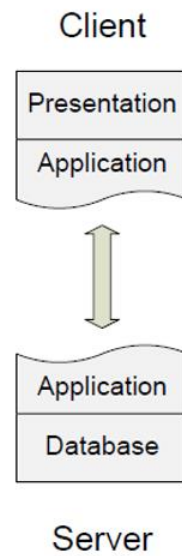
2.1. Domain Model



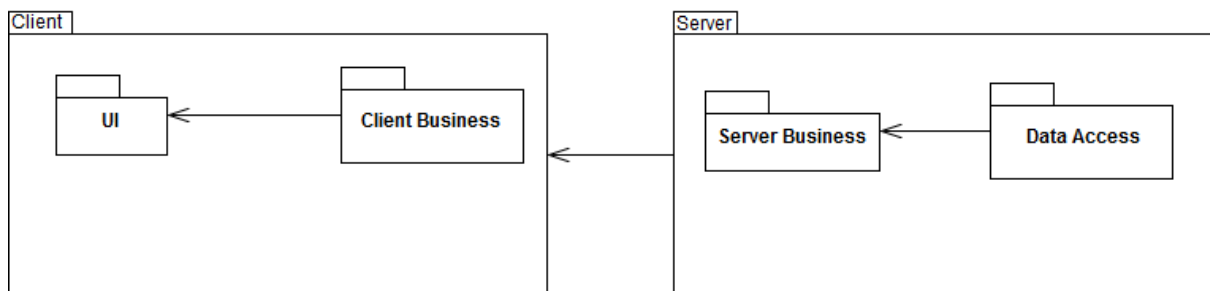
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2.2. Architectural Design

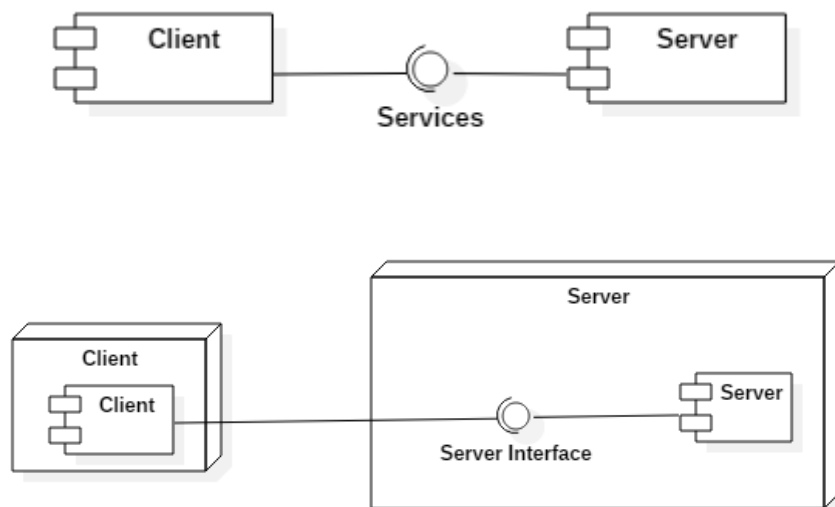
2.2.1. Conceptual Architecture



2.2.2. Package Design



2.2.3. Component and Deployment Diagrams

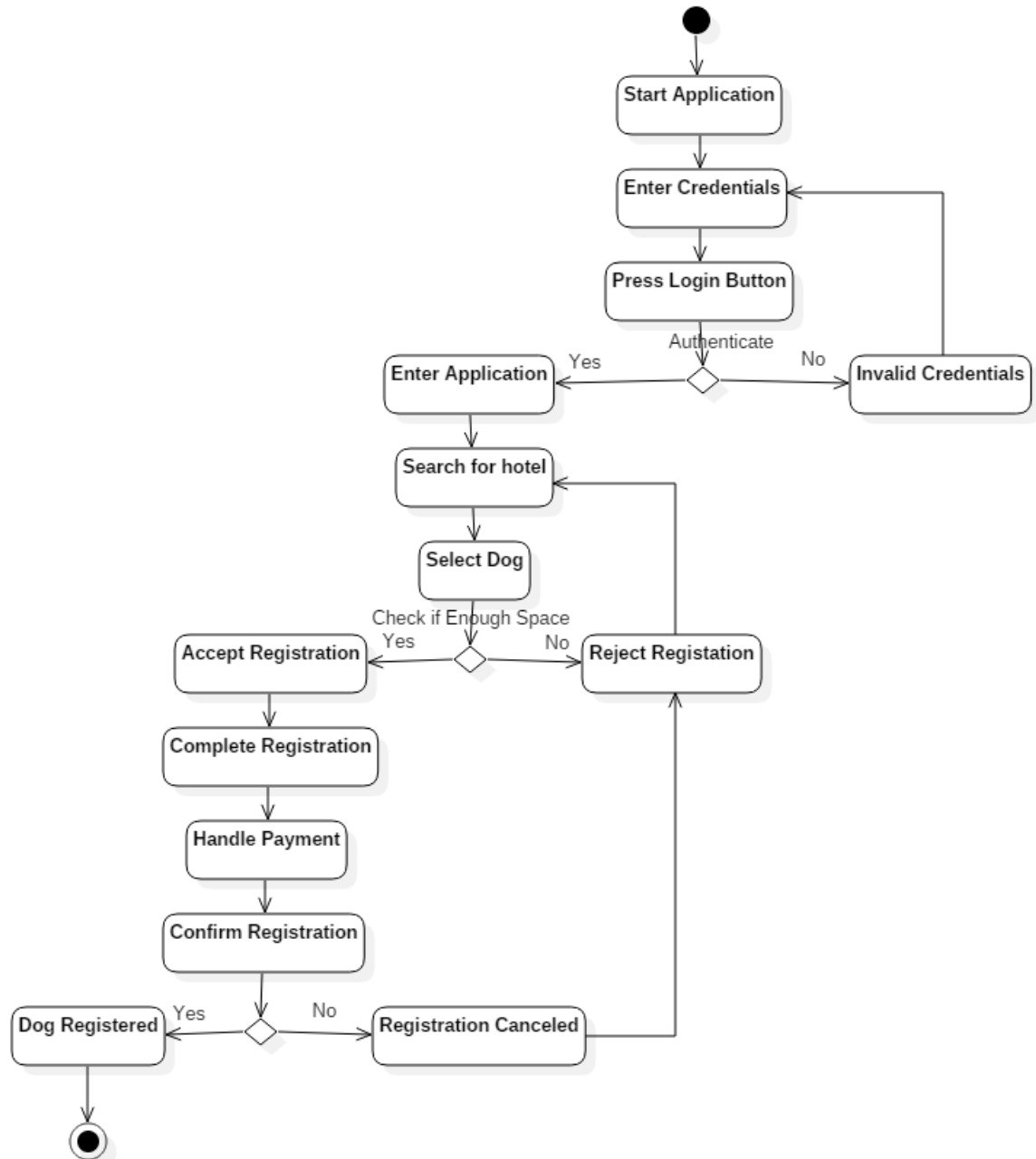


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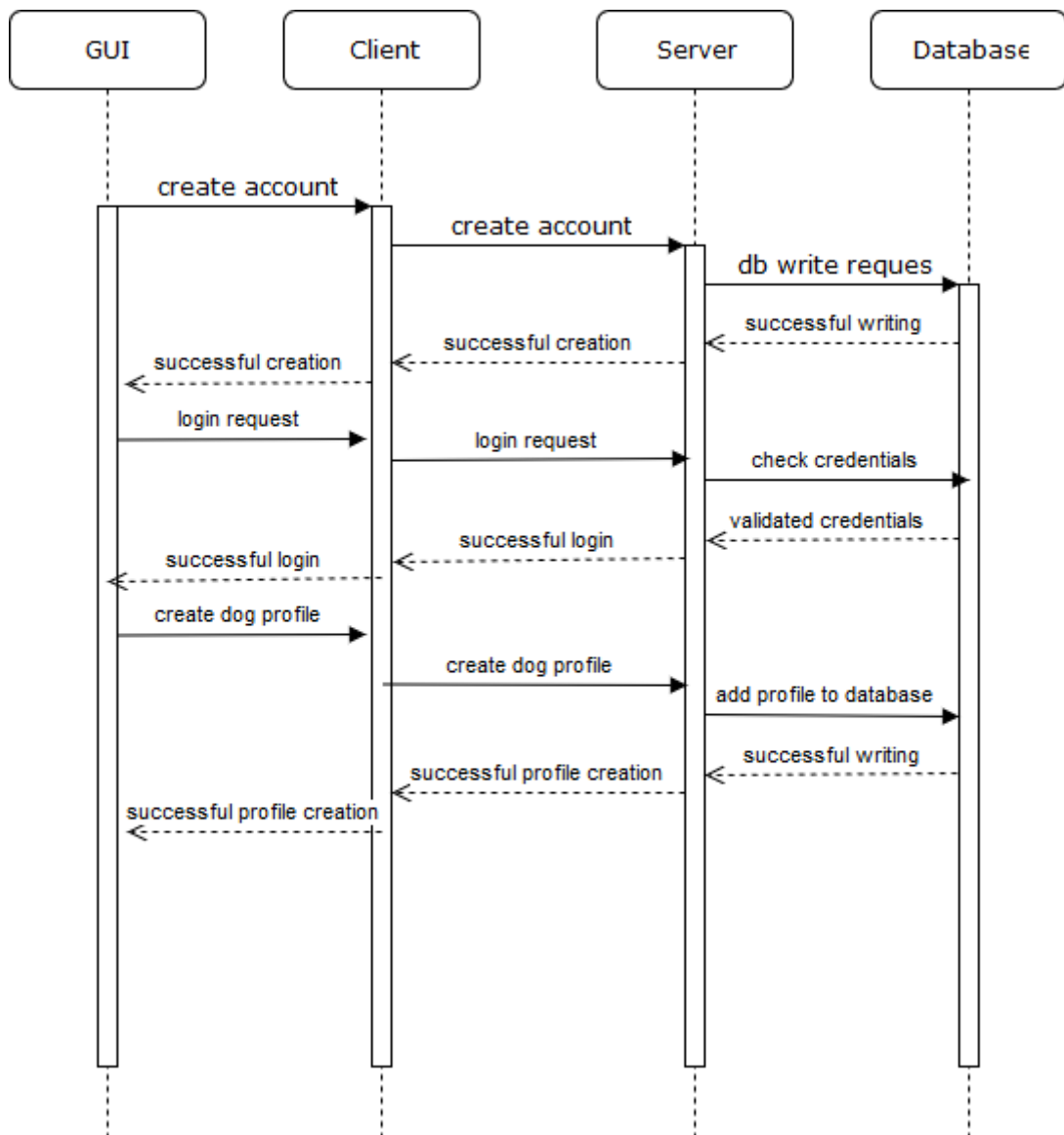
3. Elaboration – Iteration 1.2

3.1. Design Model

3.1.1. Dynamic Behavior

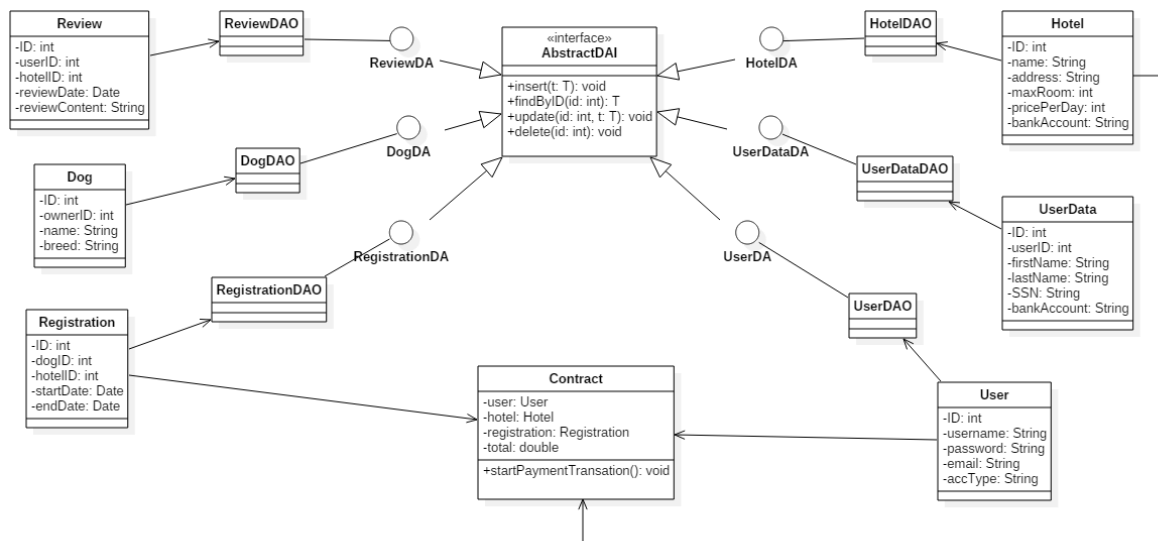


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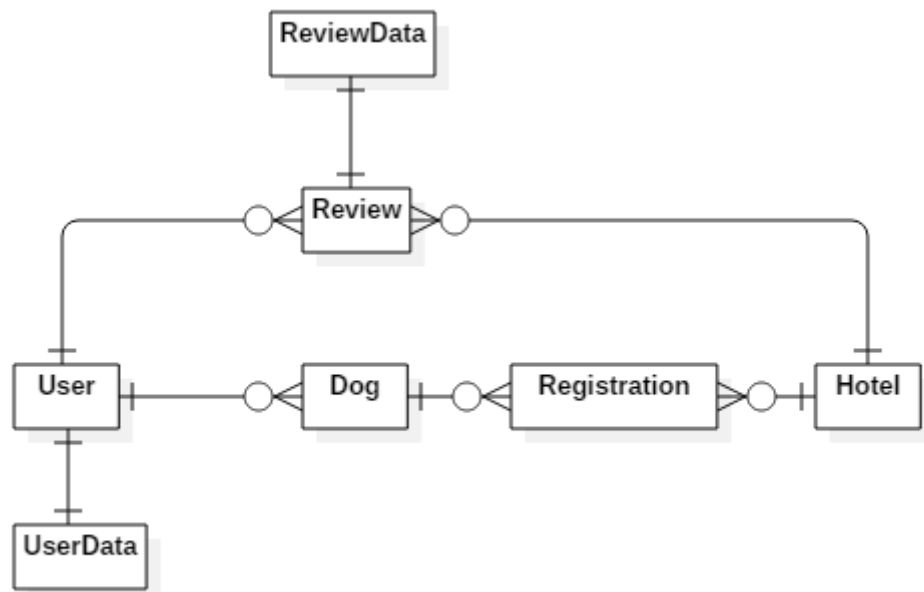


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3.1.2. Class Design



3.2. Data Model



3.3. Unit Testing

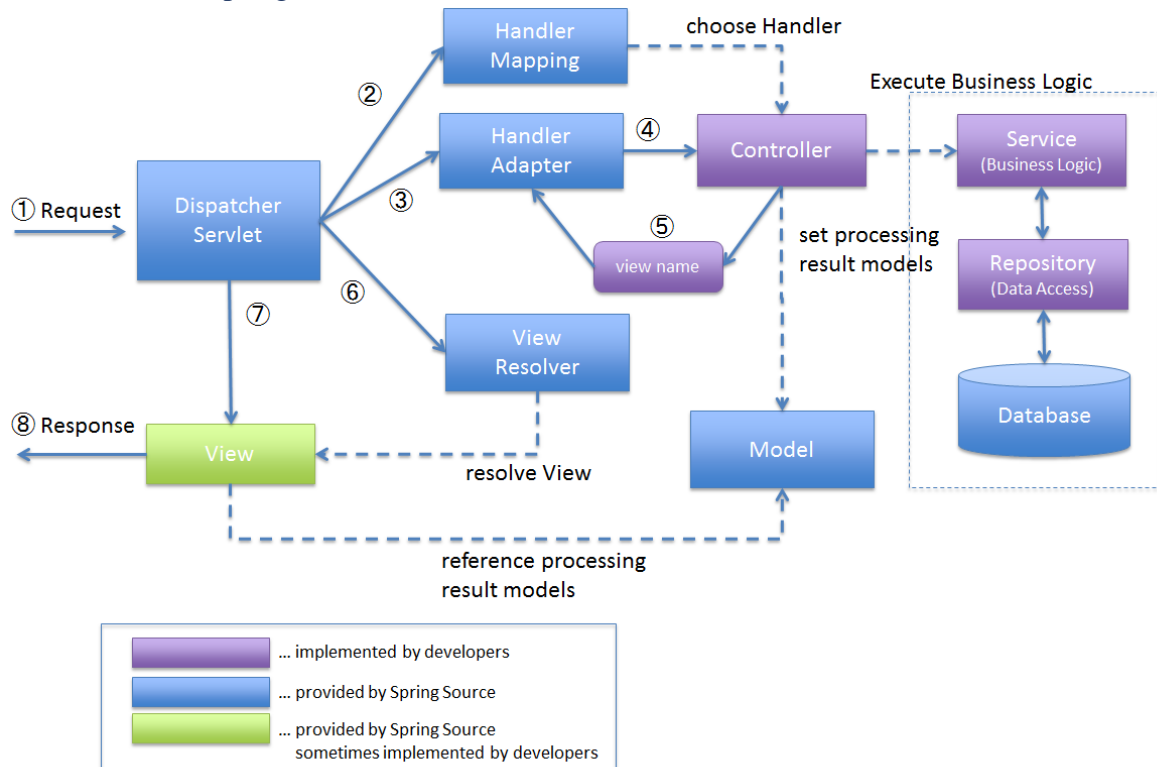
- Test if data is persisted as intended in the database;
- Test if no more than the maximum available rooms from a hotel can be rented during a time interval;
- If a person wishes to register more than 1 dog at a time, test if there is room for both of them;
- Test for room availability if a dog's time has ended but the dog hasn't been picked up by owners.

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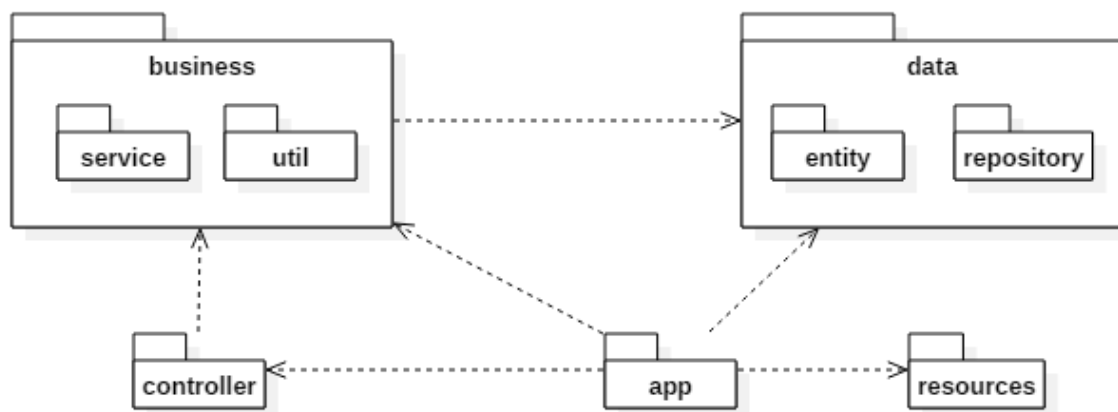
4. Elaboration – Iteration 2

4.1. Architectural Design Refinement

4.1.1. Spring MVC

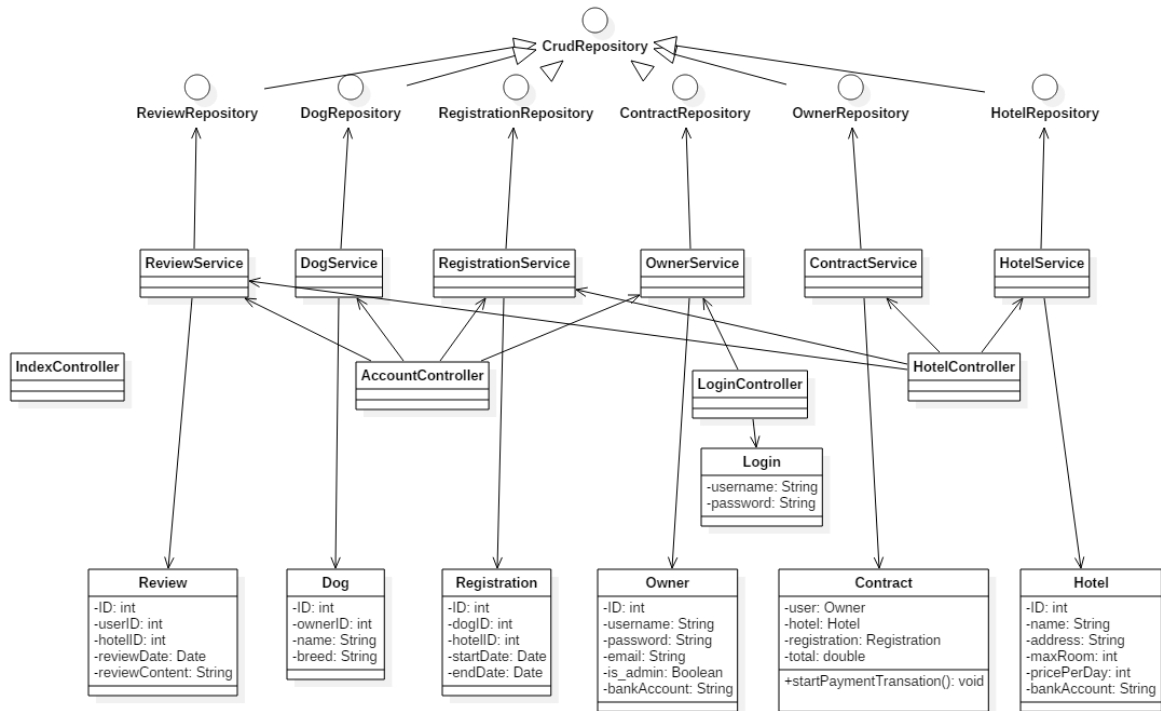


4.1.2. Package refinement



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4.2. Design Model Refinement



5. Construction and Transition

5.1. Future Improvements

- Deployment on a web server;
- Improve the security of the application using Spring Security;
- Improve the User Interface as well as the functionality of the website;
- Add the ability to register using a social media as well as add social media acknowledgement of the hotels in the database;
- Collaborate to a bank application company to integrate a safe payment system.

6. Bibliography

1. <https://spring.io/guides/gs/handling-form-submission/>;
2. <https://www.youtube.com/playlist?list=PLqq-6Pq4lTTbx8p2oCgcAQGQyqN8XeA1x>
3. <https://springframework.guru/displaying-list-of-objects-in-table-using-thymeleaf/>;
4. <https://stackoverflow.com/> (too many references to remember them all);
5. <https://openclassrooms.com/courses/build-your-website-with-html5-and-css3>;
6. https://www.w3schools.com/html/html5_intro.asp;
7. <https://www.w3schools.com/css/default.asp>;

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