

SEG3102 - S. Somé

Due: 14/10/14

Deliverable #1

# Online Property Rental System



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## **Executive Summary**

In this document, we will perform an initial analysis of a subset of the Online Property Rental system. We will do so by developing a key abstraction model and a User Experience Model focusing on use cases.

The intended readers are the OPR customers, who will hire the team to build their web application.

This document contains the key abstractions, which provides a key abstraction model for the system as a UML class. It also contains the analysis mechanisms, which is in the form of a table. Finally, we included a user experience model, which includes use case storyboards and a navigation map for the system.

# Description of Team & Roles

The team will consist of Sean Floyd and Isaac Shannon.

Sean wrote the document, answered question 5 and helped on question 6.

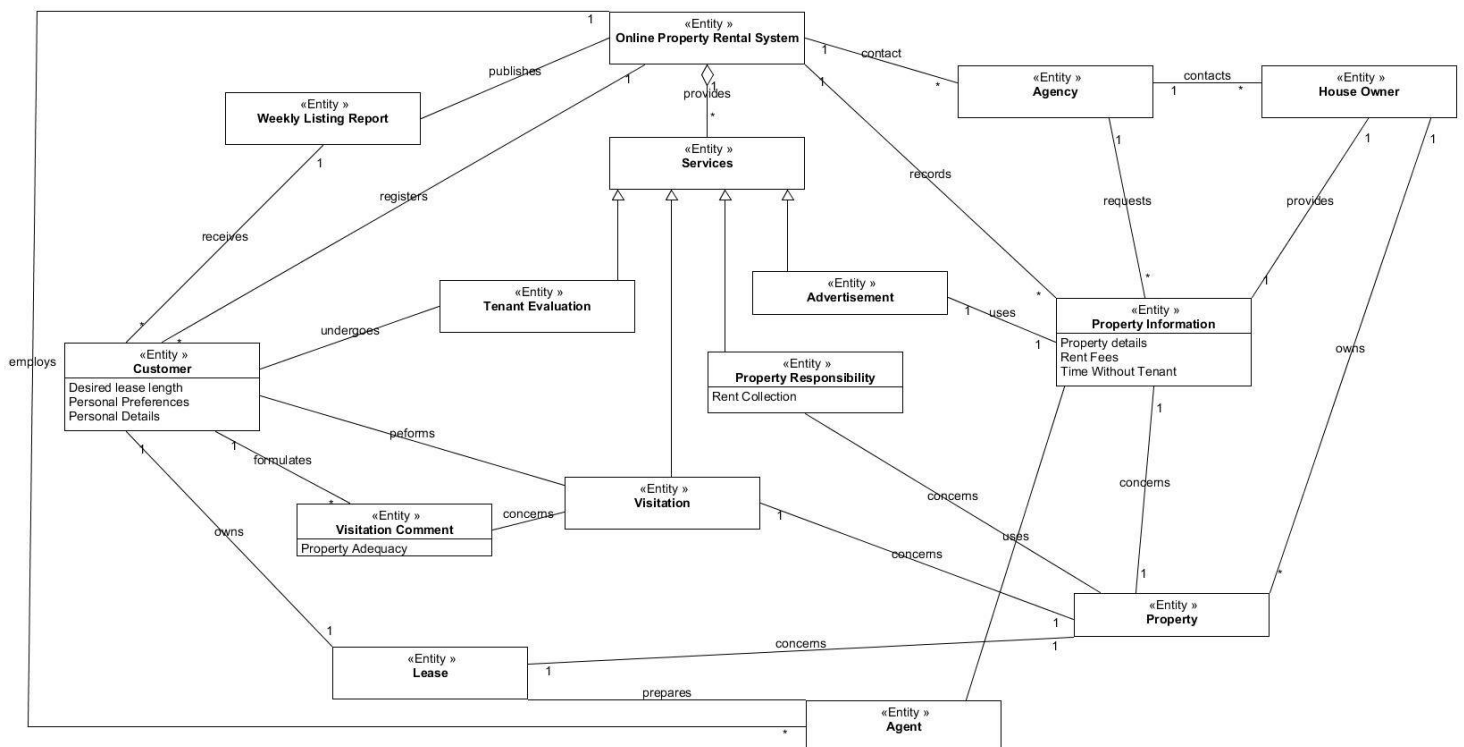
Isaac answered question 4 and helped on question 6.

## Assumptions

No assumptions were made.

## Key Abstractions

Key Abstractions

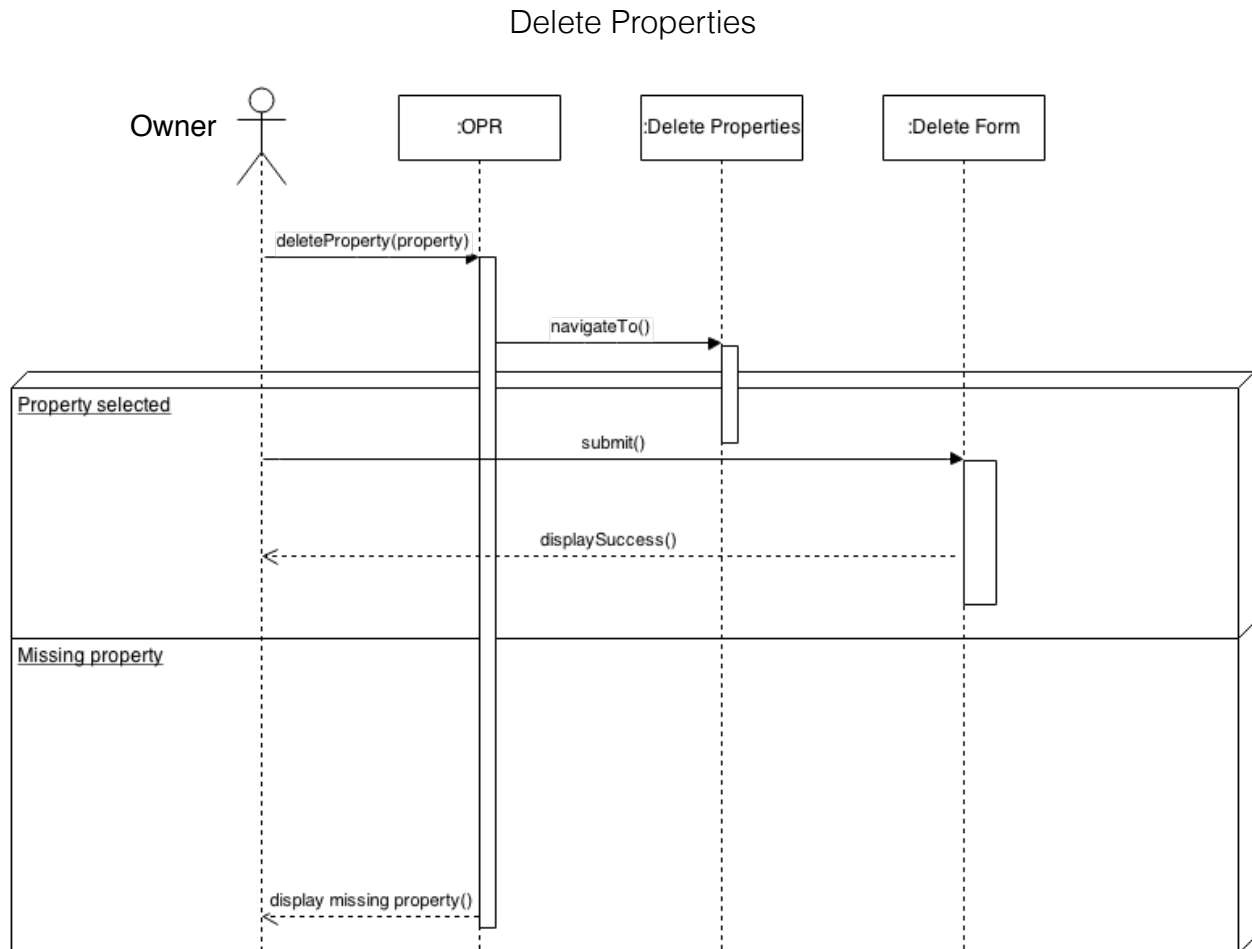


# Analysis Mechanisms

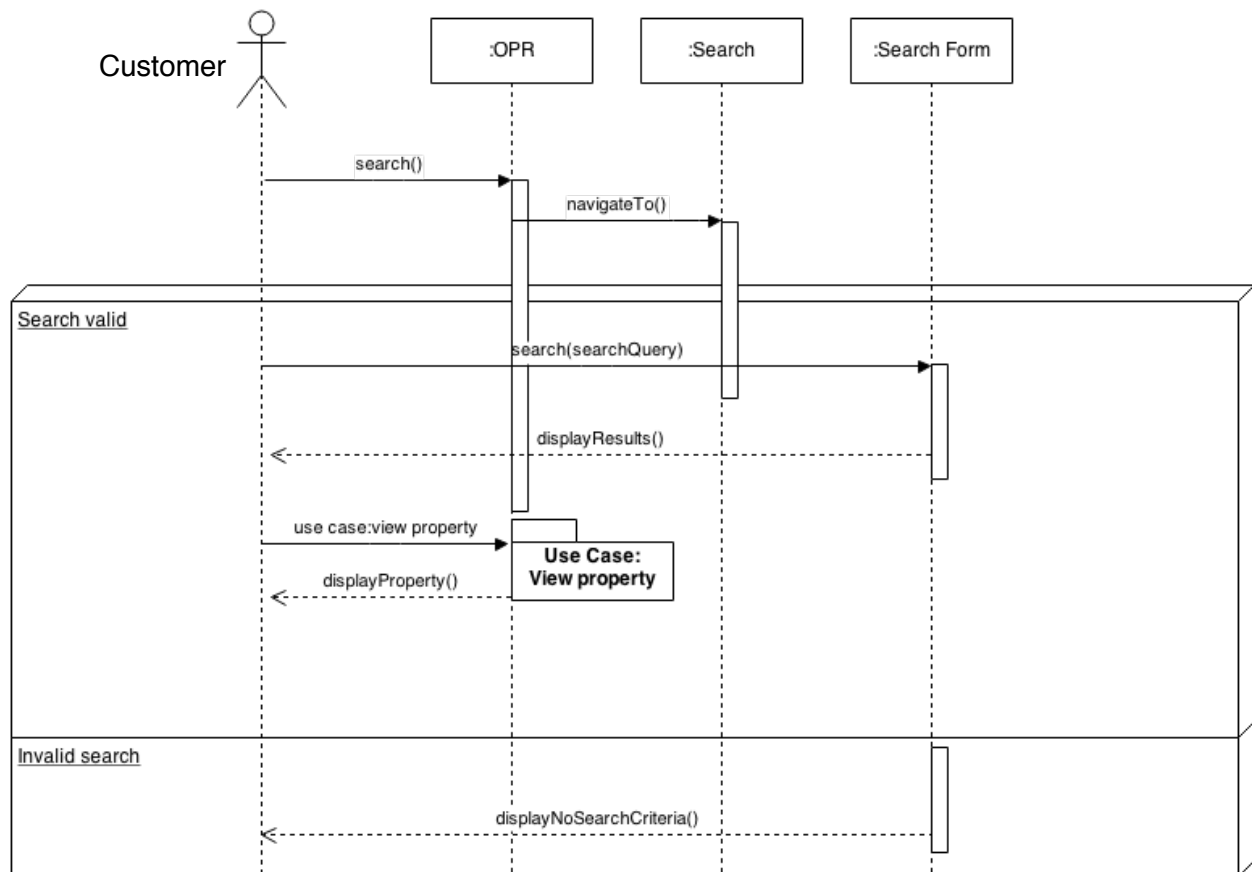
Analysis Mechanism	Description	Requirement
<b>Reliability</b>	Concerned with characteristics such as availability, accuracy and ability to recover from failure	"The OPR shall be available every day, twenty-four [...]"
<b>Implementation</b>	Specifies or constrains the coding or construction of a system.	"accessible on the Internet through a standard Internet browser"
<b>Persistence</b>	Services to manipulate persistent data.	"A database is required [...]"
<b>Communication / Information Exchange</b>	Allows distributed processes to communicate. / Supports data format conversion.	"Financial transactions will be handled by a third party"
<b>Security</b>	Provides services to protect access to certain resources or information.	"The OPR shall not save financial information of a user." ...
<b>Performance</b>	Concerned with characteristics such as throughput, response time, recovery time, start-up time, and shutdown time.	"The OPR shall complete a request from the user within ten[...]" ; "[...]to manage at least fifty simultaneous visitors to the website"

**TABLE 1: ANALYSIS MECHANISMS**

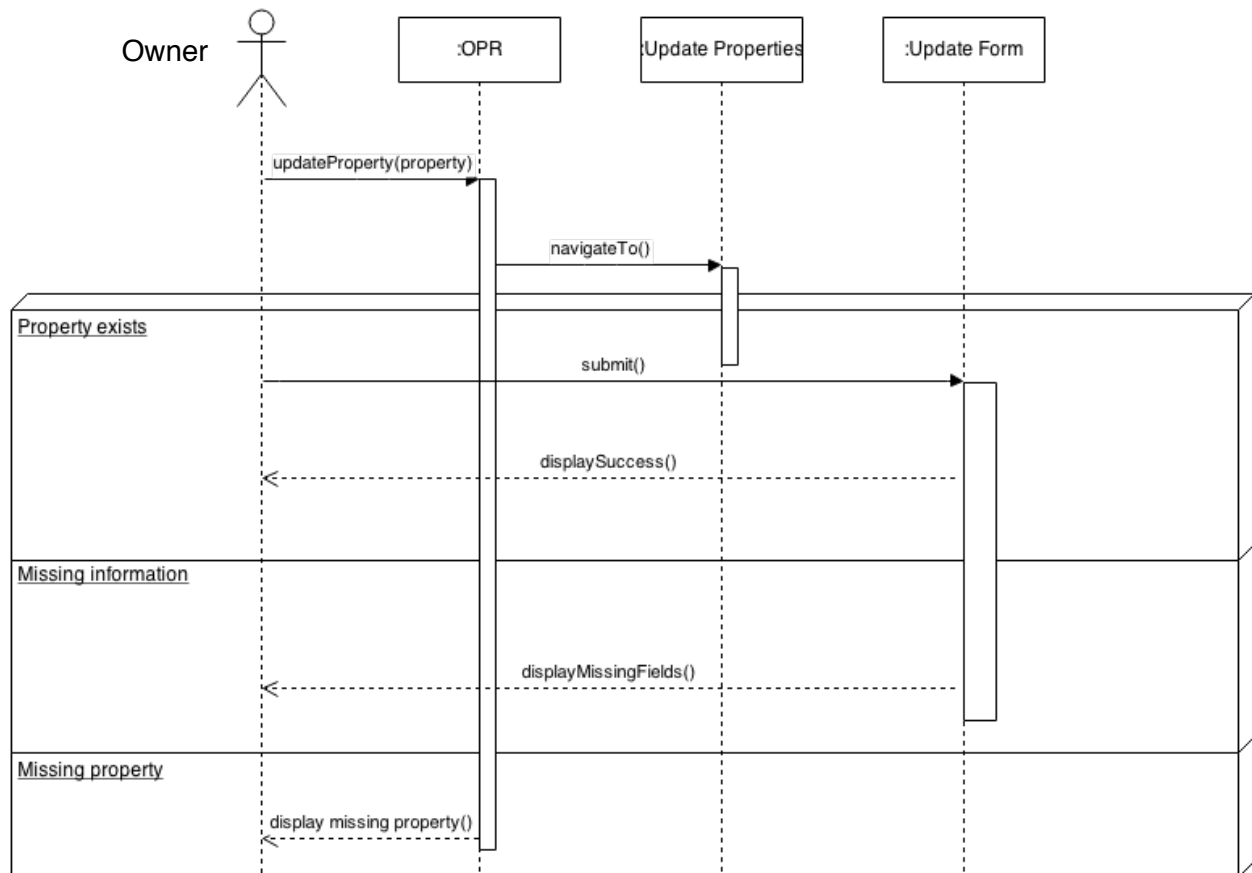
# User Experience Model



## Search

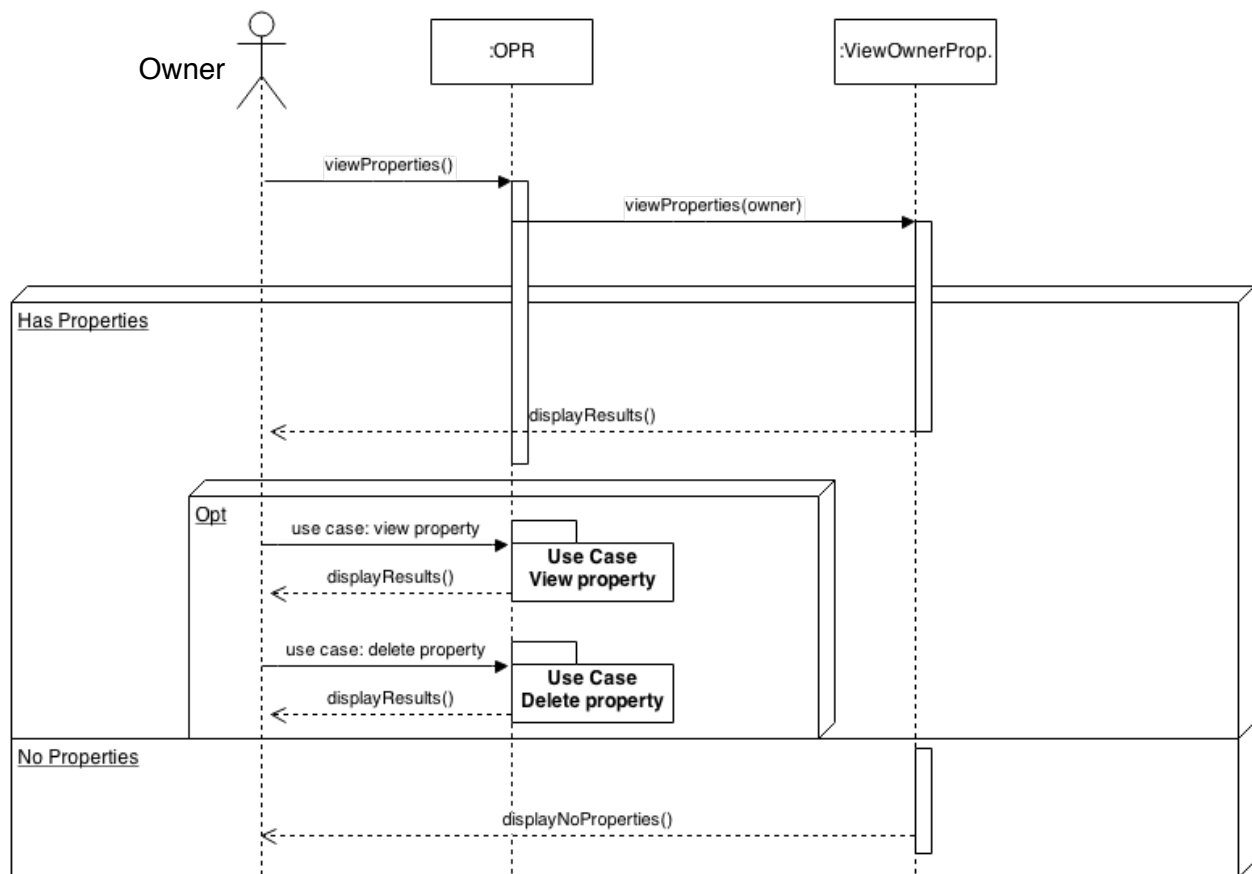


## Update Properties

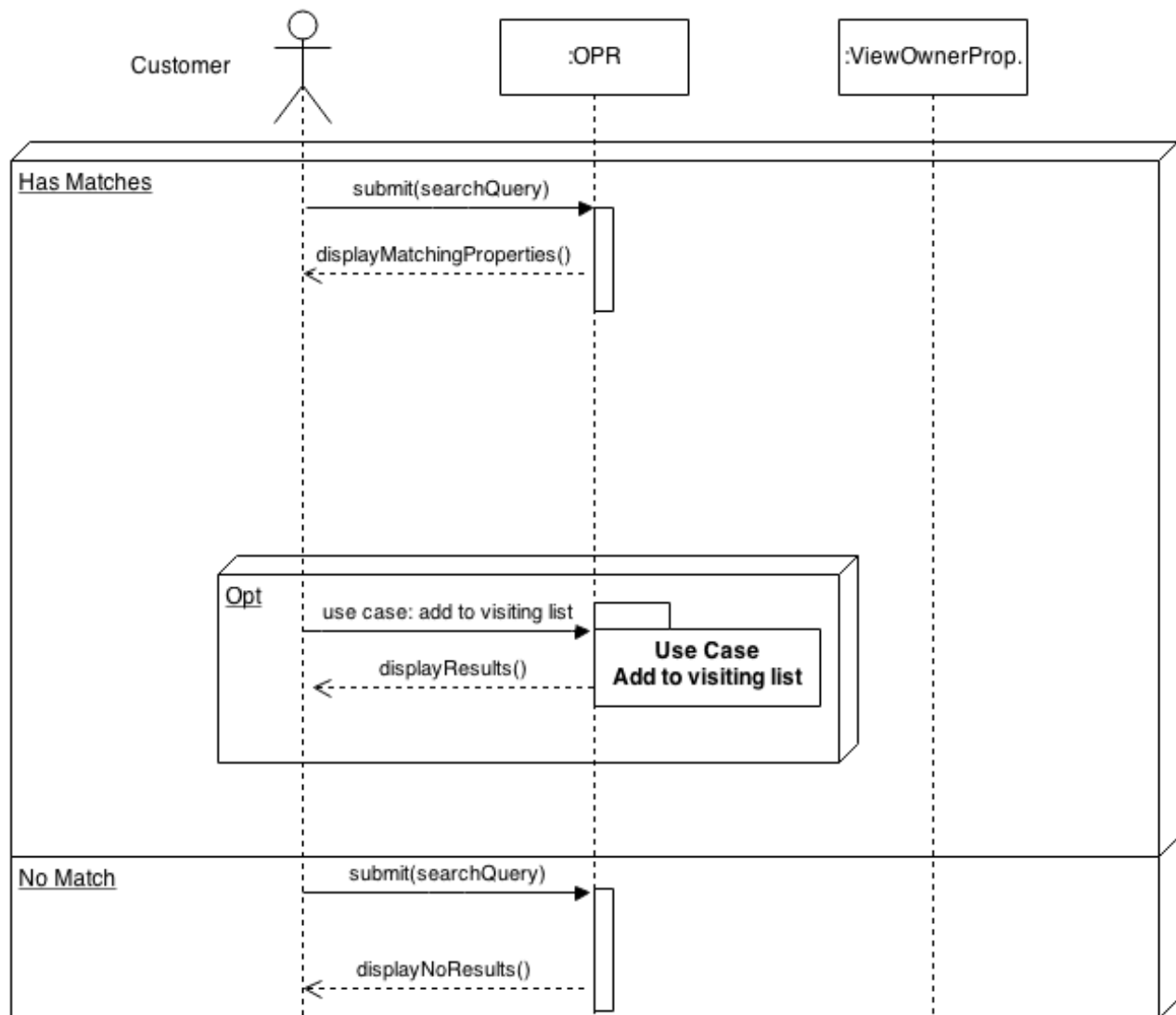




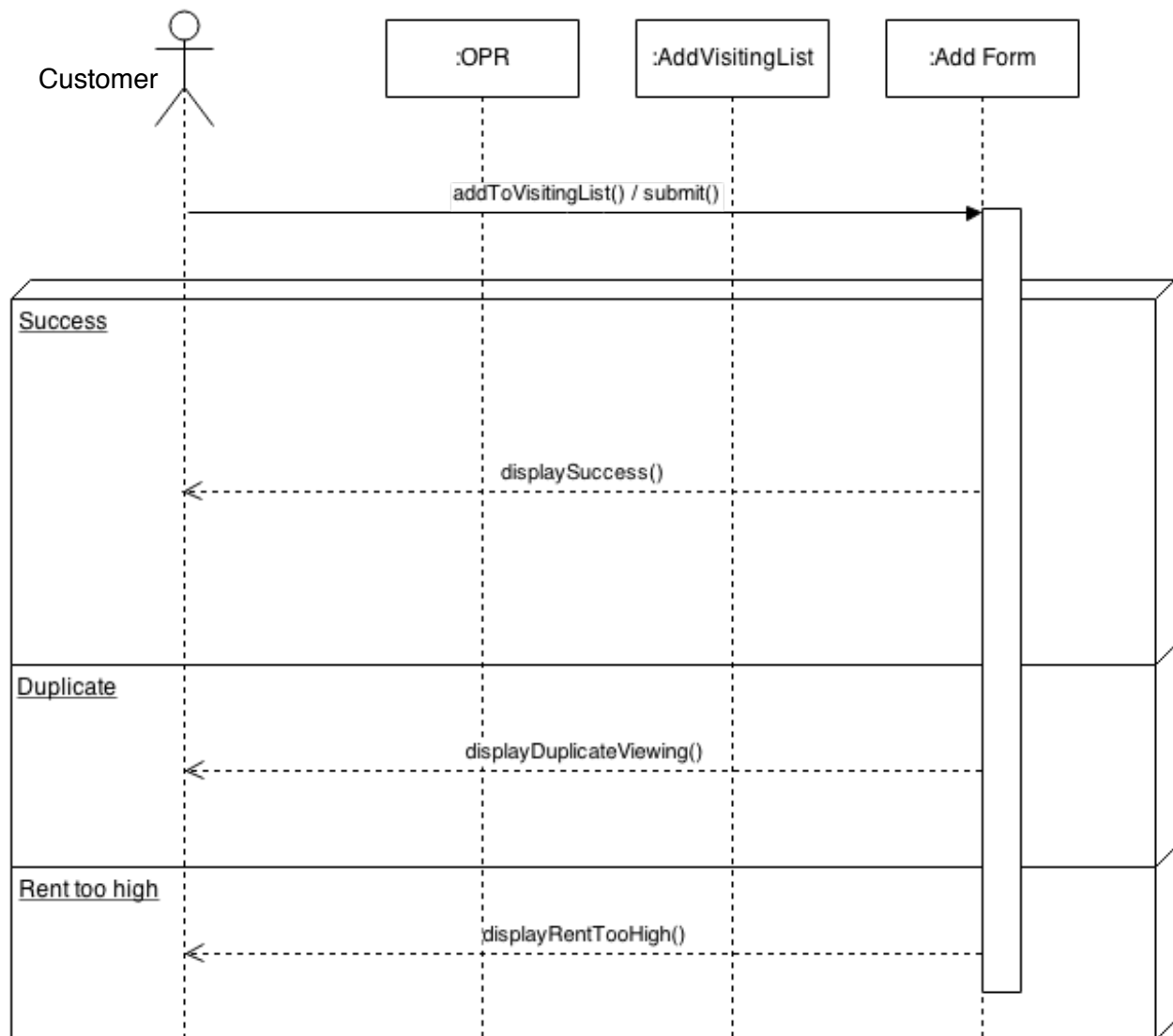
## View Owner Properties



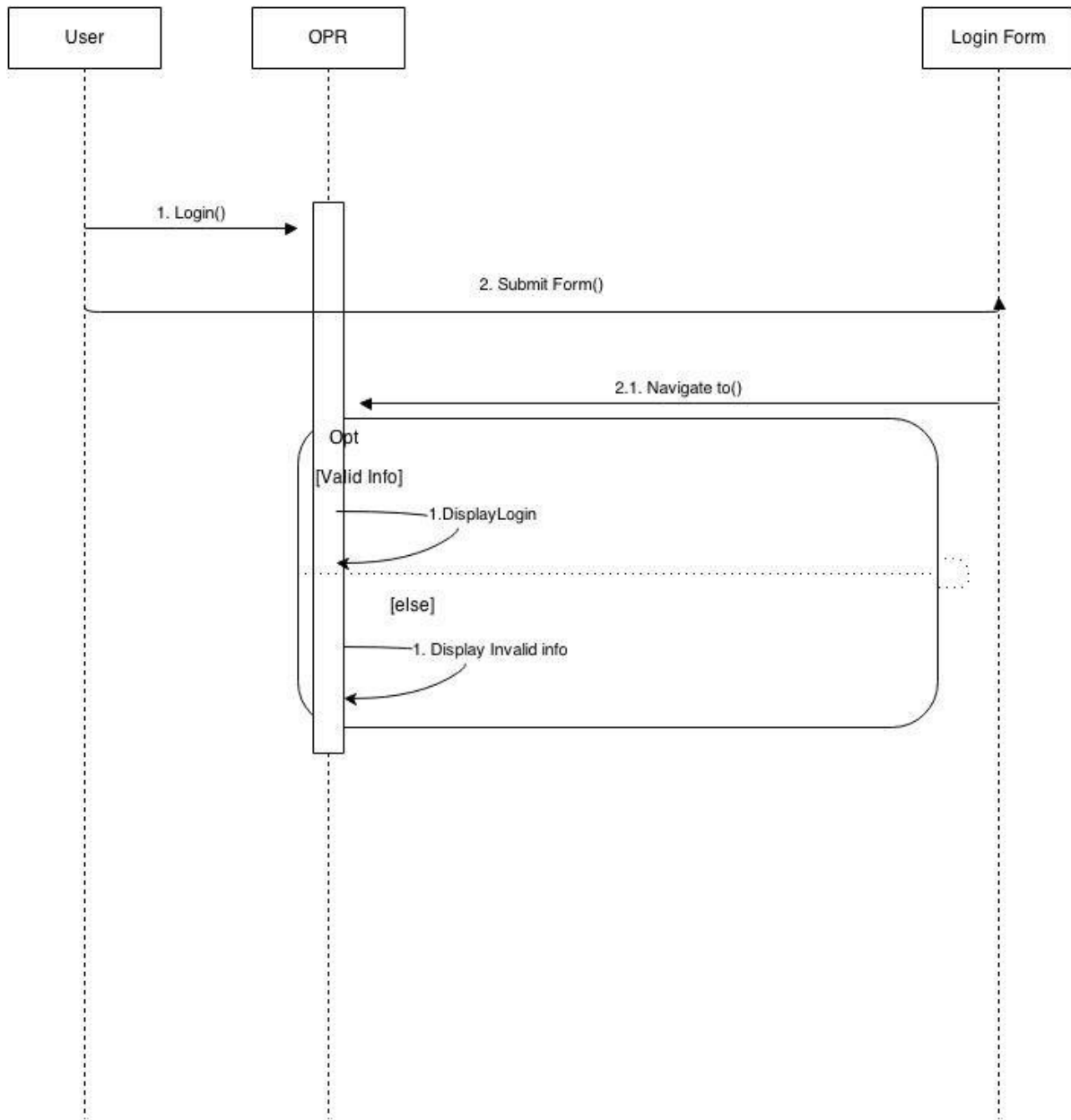
## View Properties



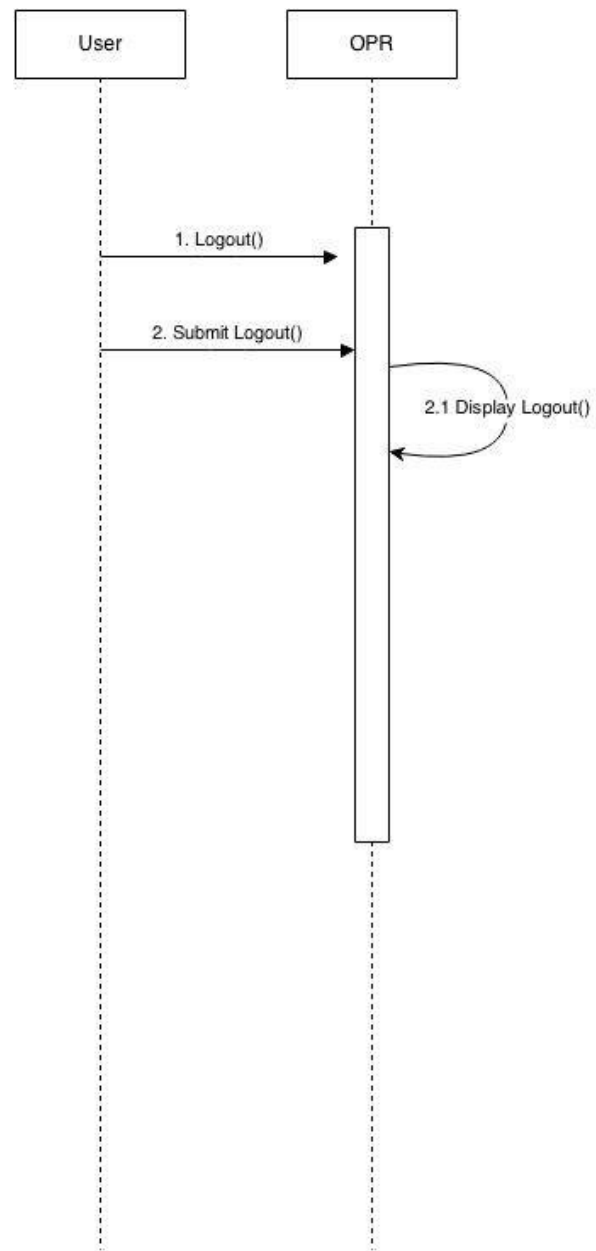
## Visit Listing



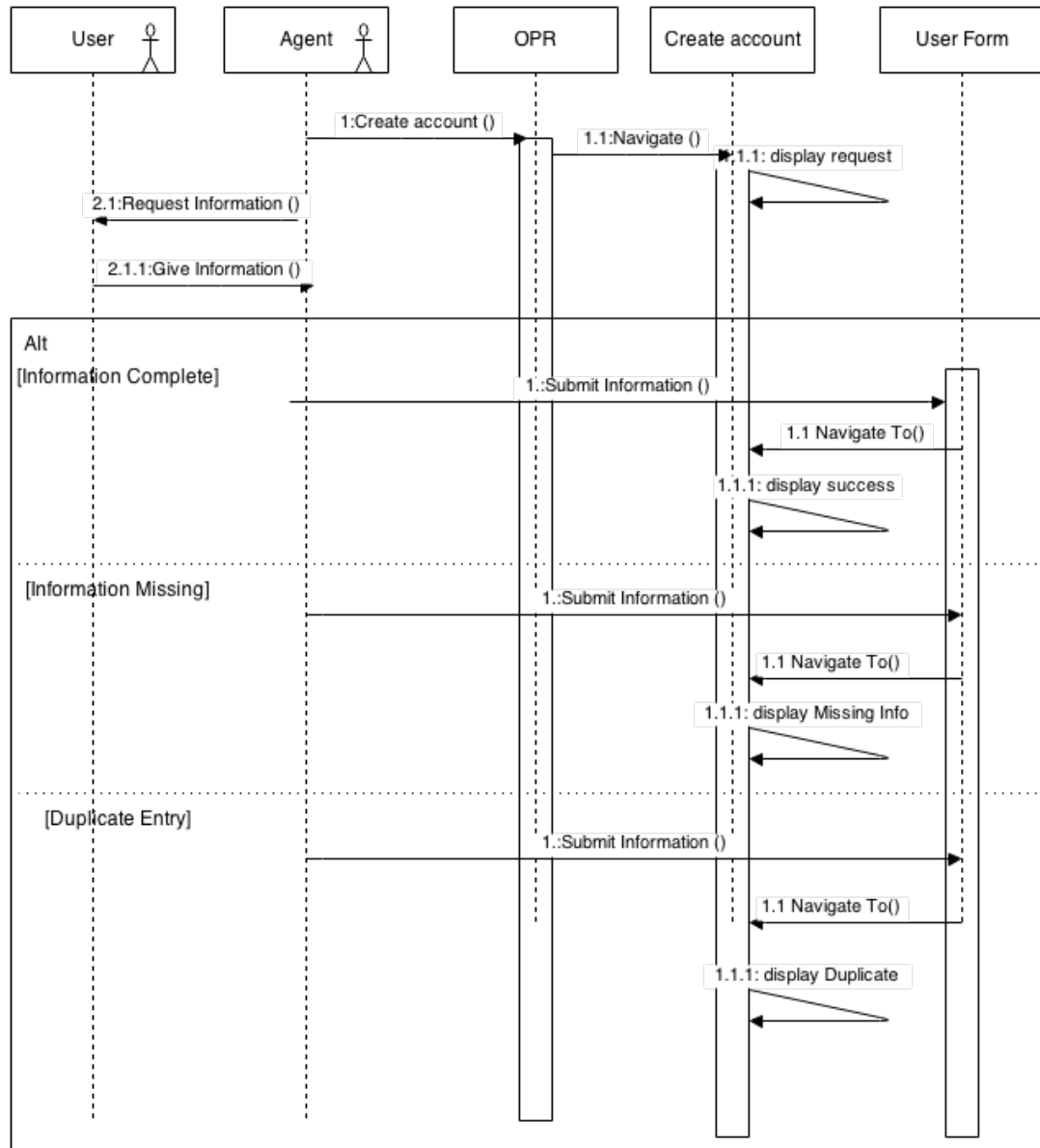
## Login



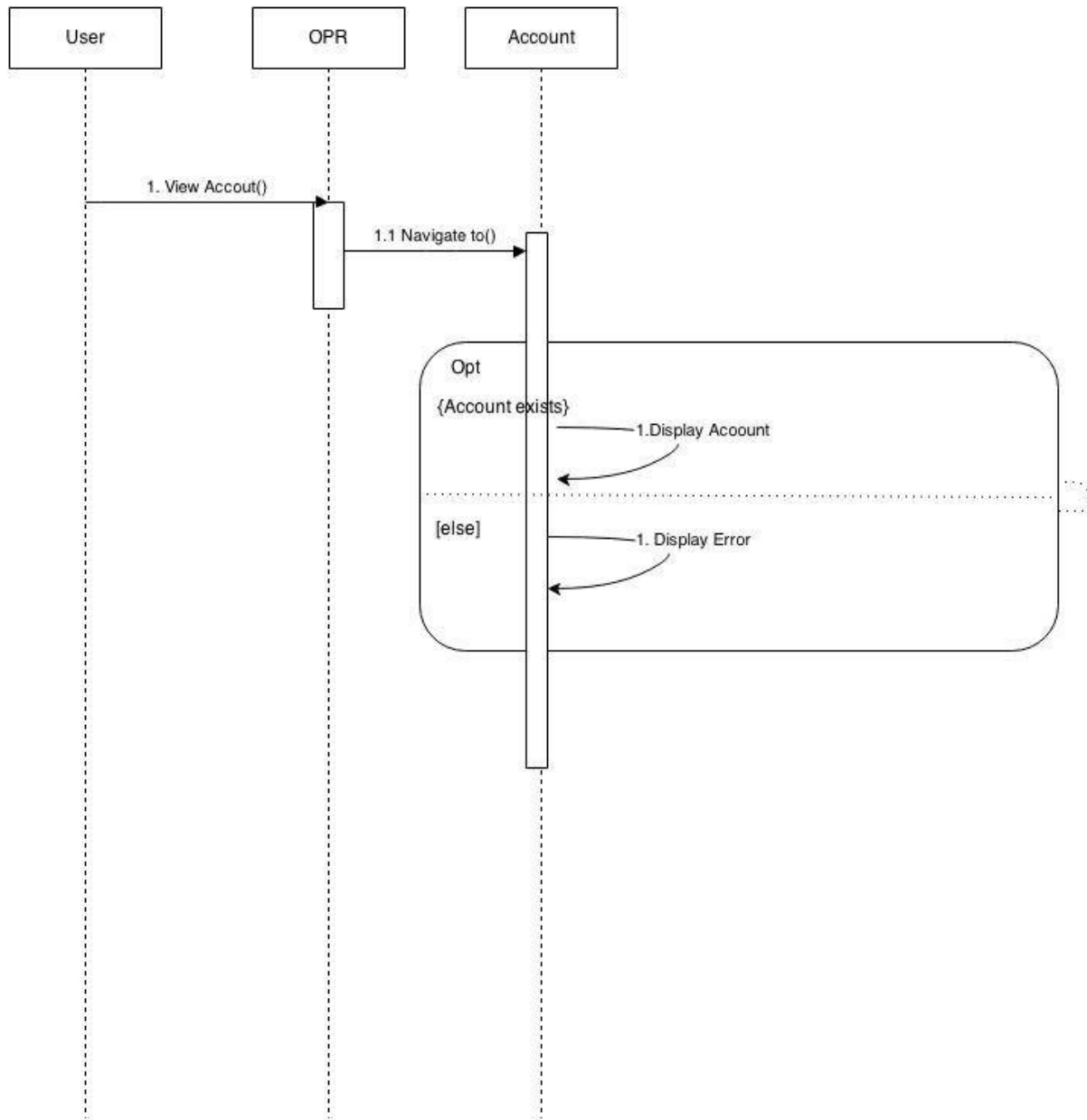
## Logout



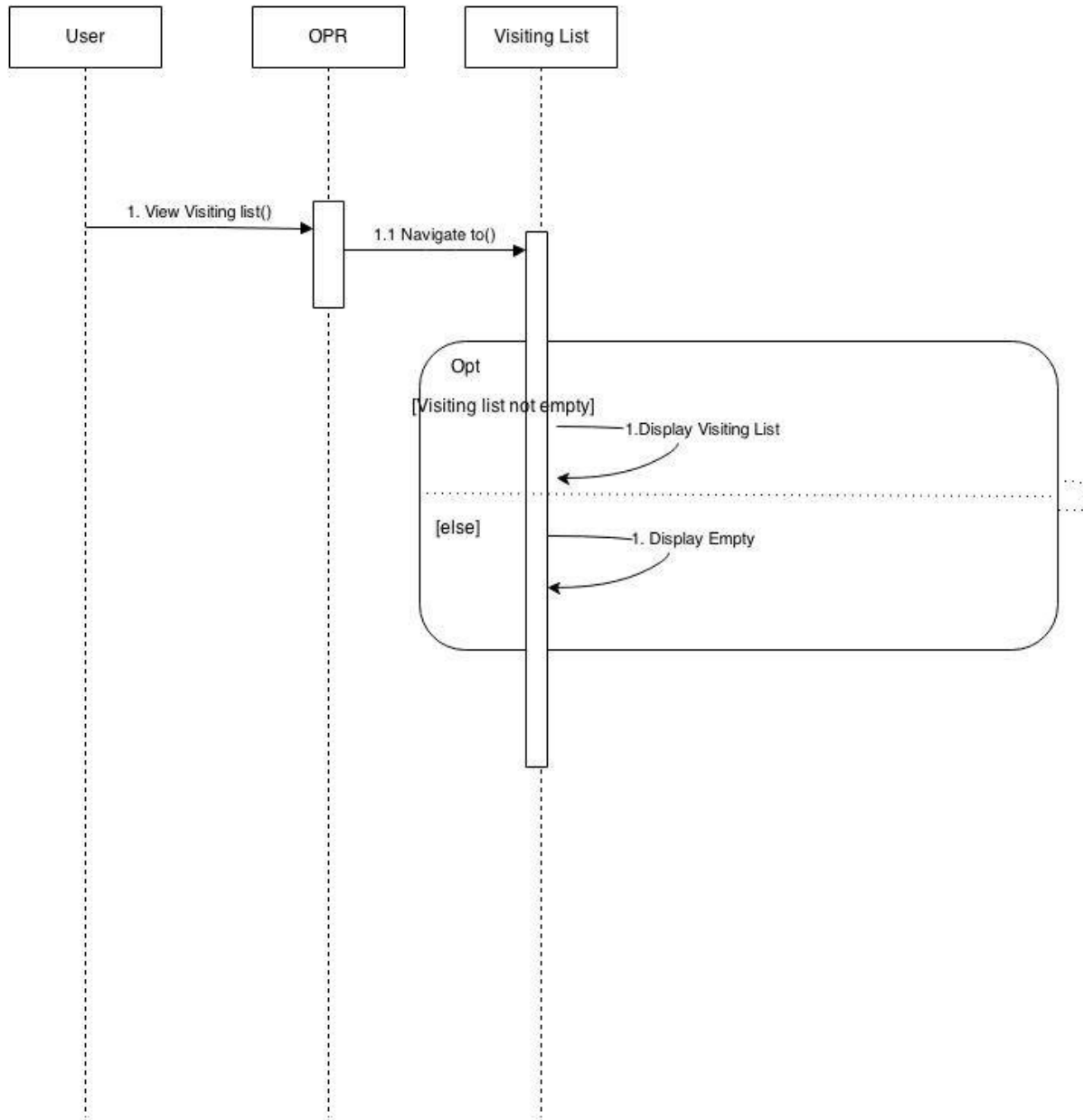
## Create Account



## View Account

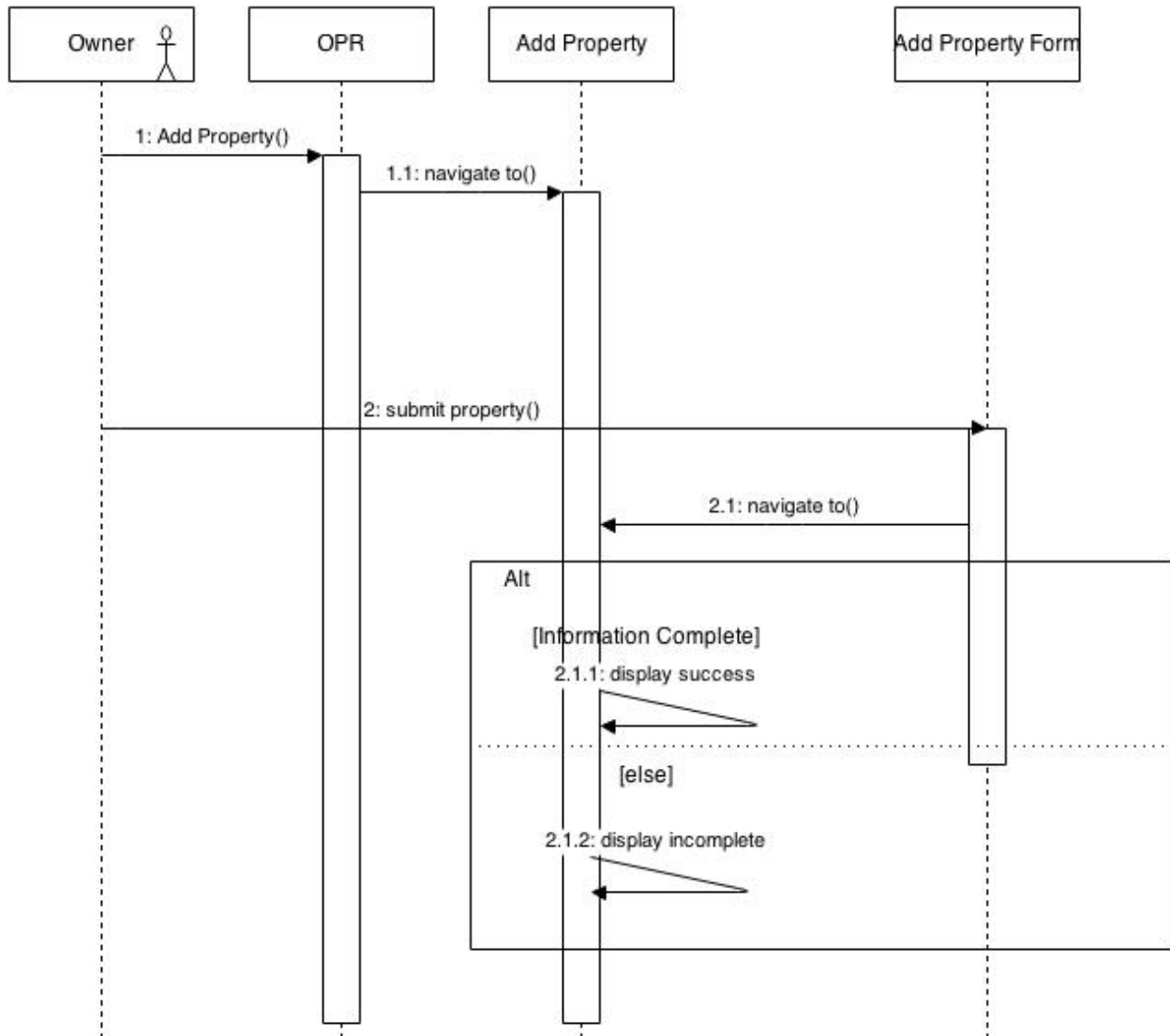


## View Visiting List

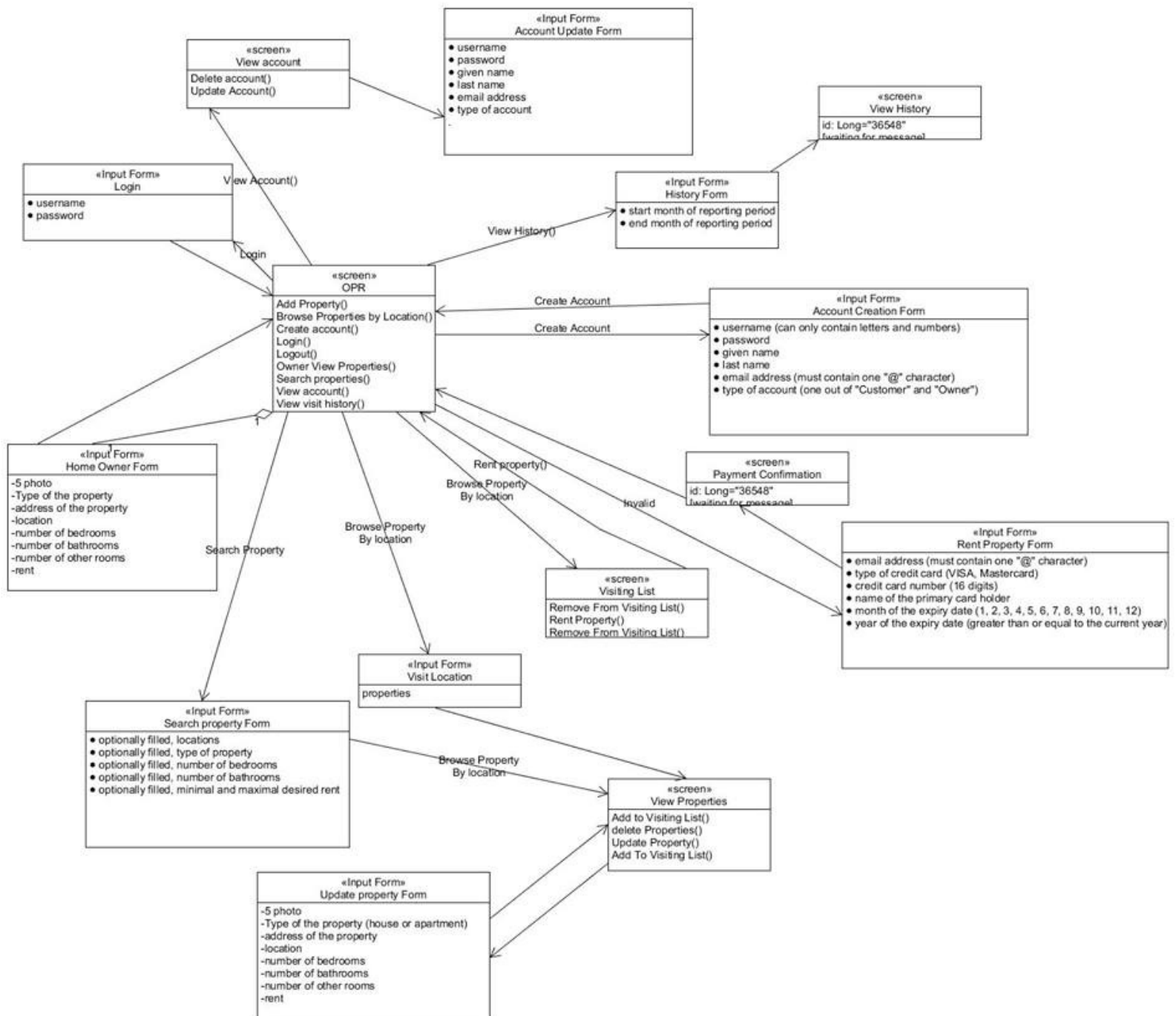




## Add Property



## Navigation map



## References

1. <http://www.ibm.com/developerworks/rational/library/4707.html> ; <http://www.ibm.com/developerworks/rational/library/4706.html>  
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Analysis Mechanisms and descriptions. Peter Eeles, Senior IT Architect at IBM.
2. [http://csis.pace.edu/~marchese/CS389/L8/DomainModel-UML\\_short.pdf](http://csis.pace.edu/~marchese/CS389/L8/DomainModel-UML_short.pdf)  
accessed October 14th 2014  
How to make a domain model tutorial. Francis T. Marchese, Professor at Pace University
3. <http://www.umlet.com/>  
accessed October 14th 2014 to create UML diagram
4. <http://www.dreamhomesource.com>  
accessed October 14th 2014. Team logo taken from this website.
5. [www.draw.io](http://www.draw.io)  
accessed October 14th 2014 to create use case storyboards and navigation map

## Appendix

- A. Initial Requirements
- B. Use Cases
- C. Modalities
- D. Deliverable1.pdf

Appendices are not included.