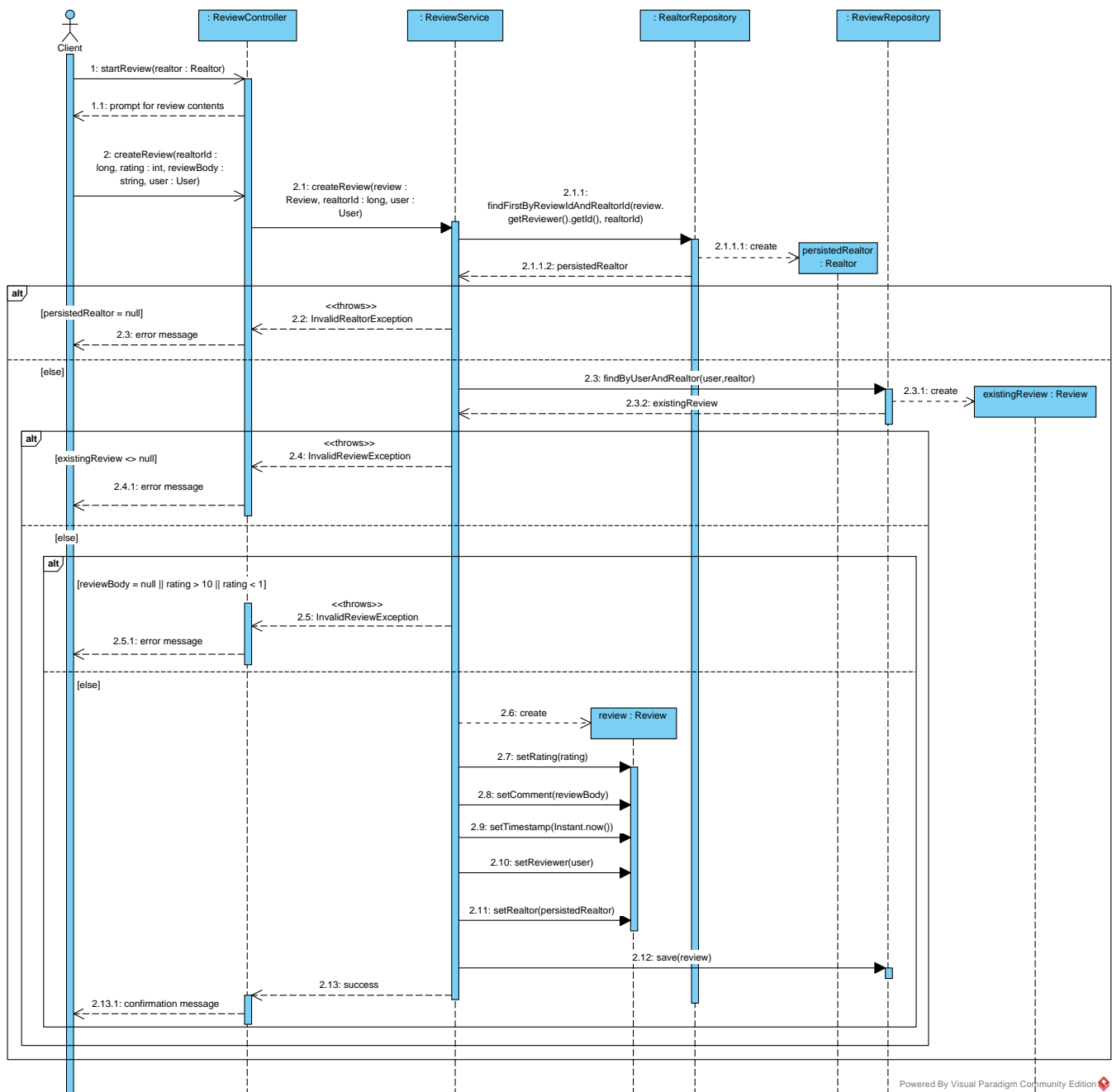


Final Documentation: 3 use cases, SD, Class model, deployment,
components, activity, state, OCL

Vincent Bushong

2019-12-06



ID: Add a Review

Scope: PropertyPro

Primary Actor: Buyer

Stakeholders and Interests:

- Buyer wants to share feedback about a Realtor
- Realtor wants to receive feedback so they can improve their image.

Preconditions: User is logged in as a Buyer

Postcondition: Review is listed in the system; Realtor is notified of new review

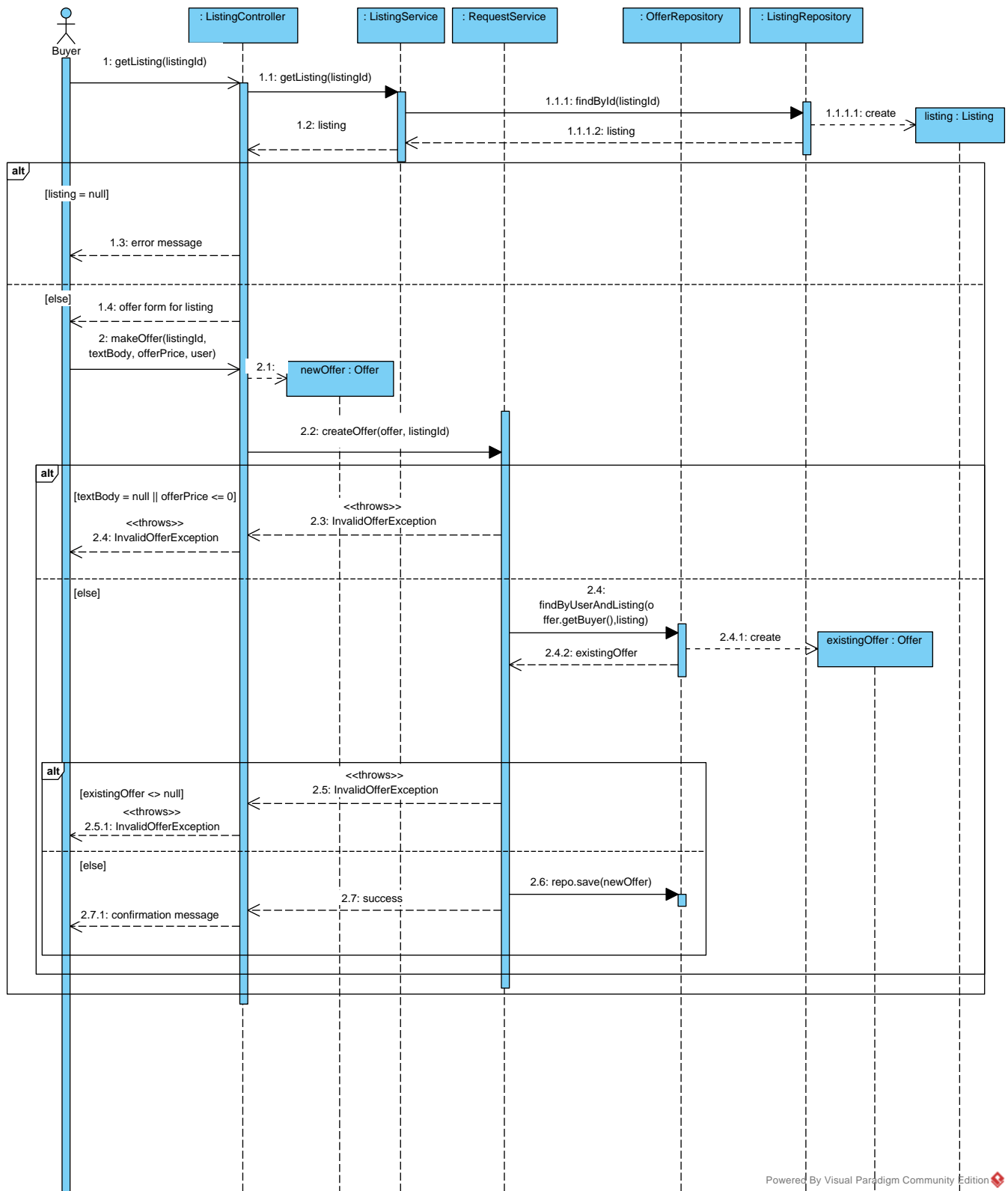
Main Success Scenario:

1. User begins review of Realtor
2. System prompts for review information
3. User inputs a 1-5 star rating
4. User inputs a review body
5. User submits review
6. System creates review and notifies Realtor

Extensions:

5a. Star rating or review body left blank:

1. System signals error and prompts user to input missing information



ID: Submit a Request

Scope: PropertyPro

Primary Actor: Buyer

Stakeholders and Interests:

- User wants to submit a request for information or an offer quickly to possibly make offers on a house.
- Realtor wants to know quickly when requests or offers are sent in to respond to them

Preconditions: User must be logged in as Buyer

Postcondition: Submission will be sent to realtor

Main Success Scenario:

1. Buyer indicates to submit a request about a listing
2. System displays listing information and prompts for request information
3. Buyer enters title and message
4. Buyer indicates to submit request
5. System sends message to the listing's Realtor

Extensions:

2a. Buyer indicates that the submission is an offer on the house:

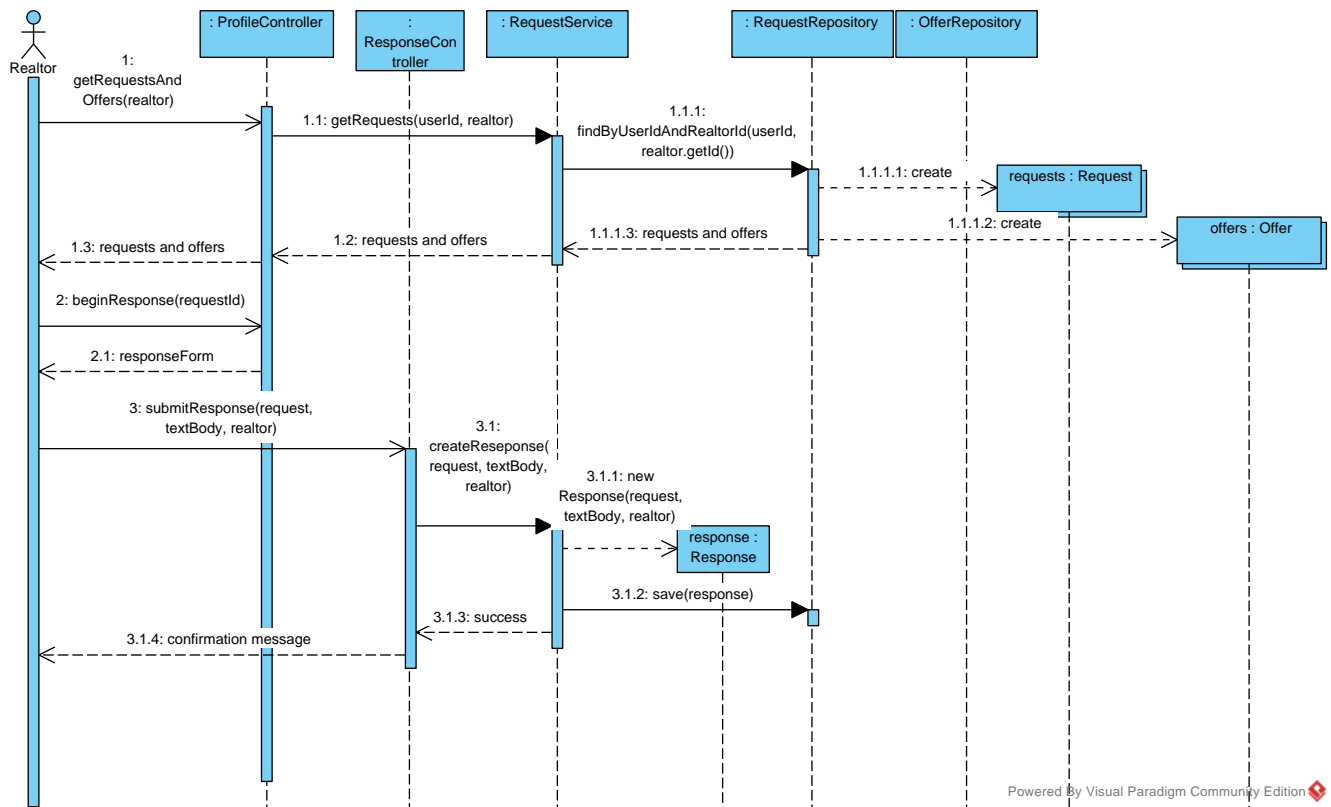
1. System prompts Buyer to enter an offer amount.
2. User enters offer amount.

4a. Buyer attempts to submit a blank request

1. System signals an error and prompts user to enter a request body.

4b. Buyer attempts to submit an offer on a property they already submitted an offer for:

1. System signals an error.



ID: Realtor Response to Buyer Request

Scope: PropertyPro

Primary Actor: Realtor

Stakeholders and Interests:

- Realtor wants Buyer to receive their response so they can proceed toward a sale.
- Buyer wants to receive a response about a property they are interested in.

Preconditions: A Buyer must have submitted a request for information or an offer.

Postcondition: Buyer will have received a notification regarding the response.

Main Success Scenario:

1. Realtor indicates to view open requests
2. System displays Realtor's open requests
3. Realtor chooses a Buyer request to respond to.
4. System displays the Buyer information, the request, and the listing in question.
5. Realtor enters a response to the request.
6. Realtor indicates to send the response.
7. System sends message to the Buyer containing the Realtor response.

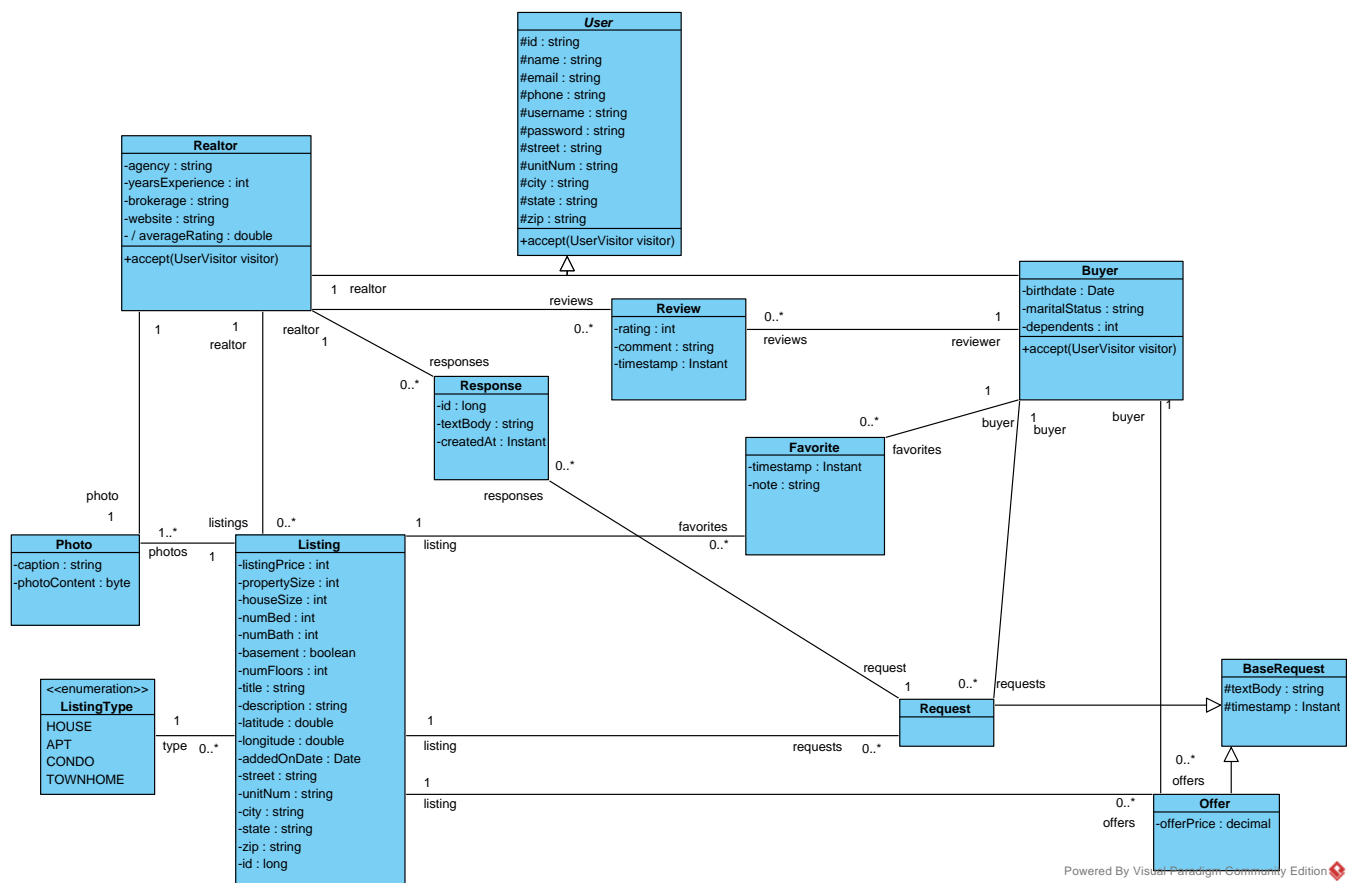
Extensions:

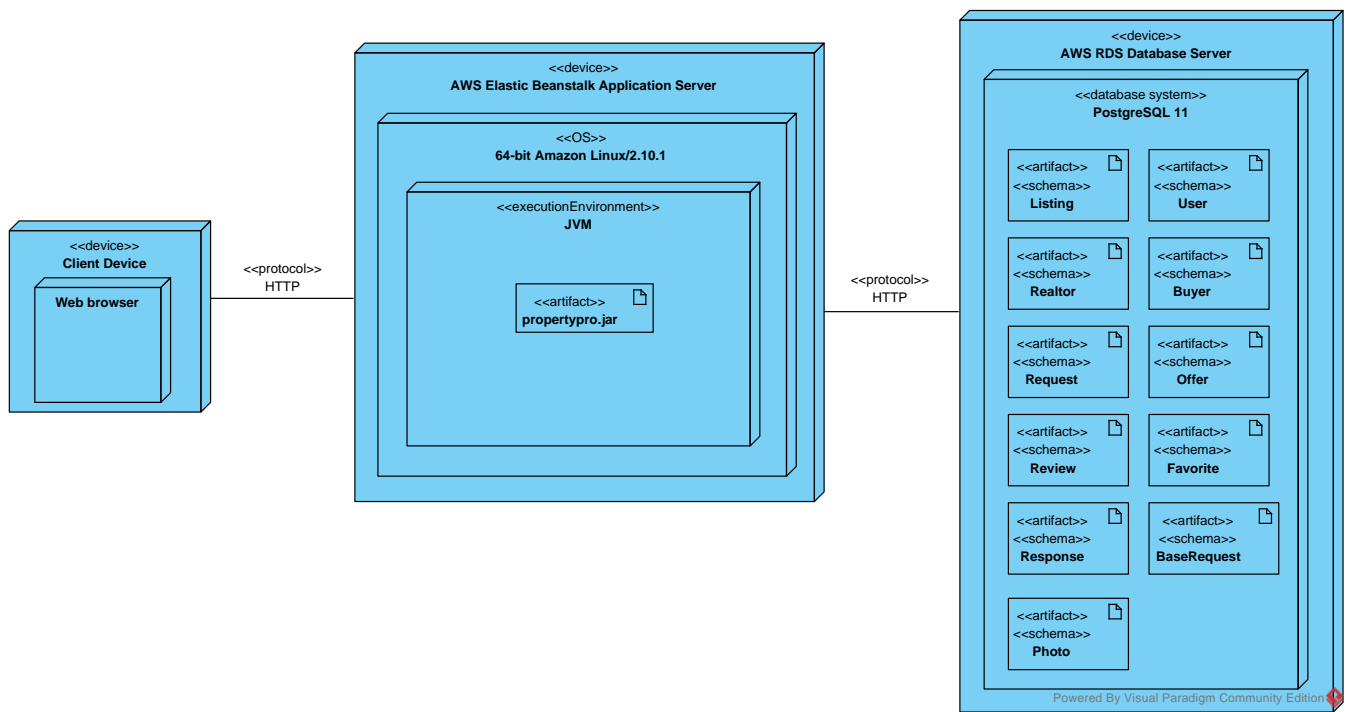
6a. Buyer request is an offer on a property

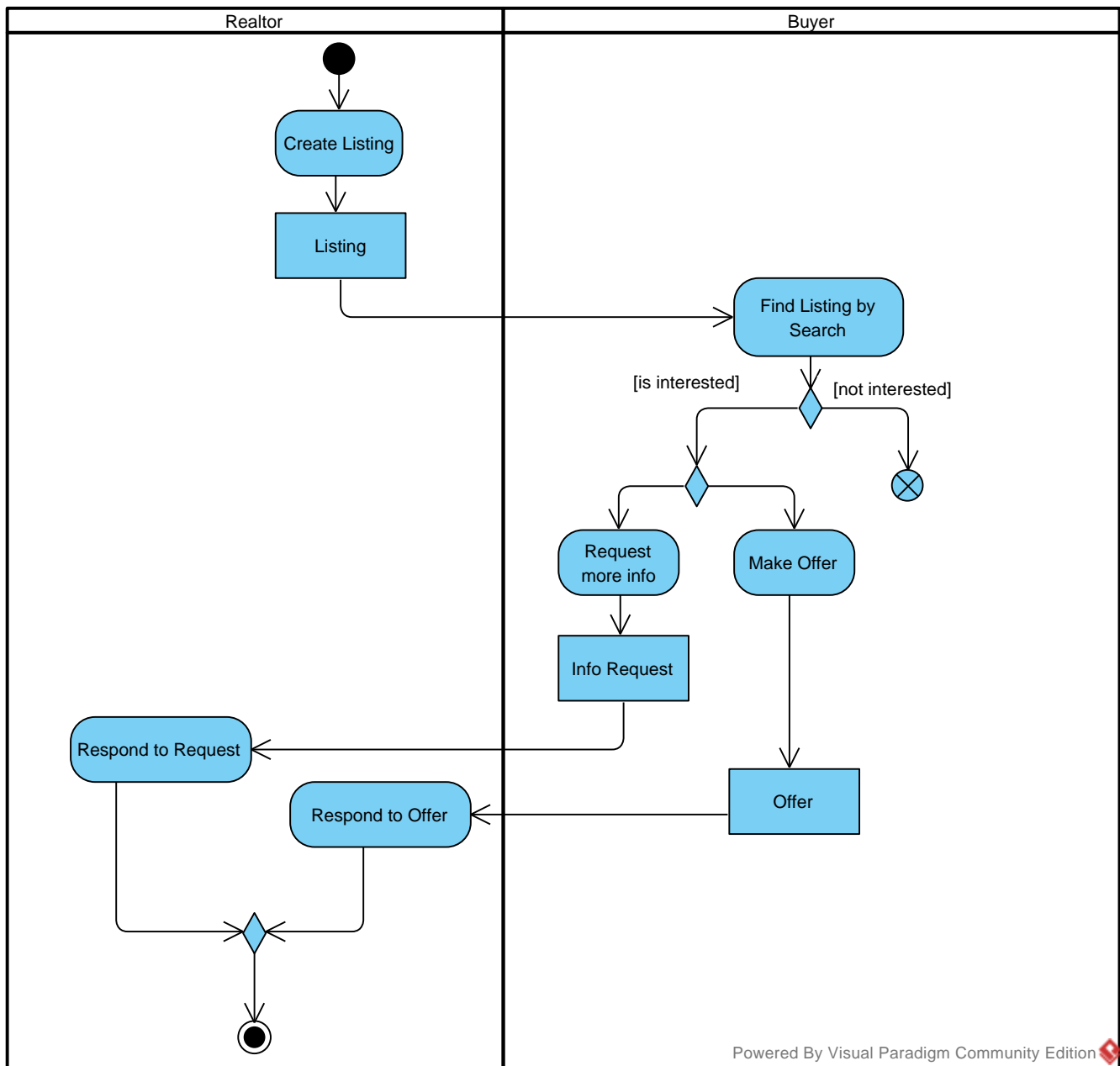
1. The Realtor continues negotiations (if any) outside of the System.

6b. Realtor attempts to send blank response

1. System signals an error and prompts Realtor to enter a response.







OCL

```
context Listing
inv:  realtor <> null
inv:  listingPrice > 0
inv:  propertySize > 0
inv:  houseSize > 0
inv:  numBed > 0
inv:  numBath > 0
inv:  numFloors > 0 and <=10
inv:  description <> null
inv:  latitude >= -90 and <= 90
inv:  longitude >= -180 and <= 180
inv:  type = #APT or type = #CONDO implies unitNum <> null and unitNum <> \"

context Realtor
inv:  responses->isUnique(r | r.request)

context Buyer
inv:  martialStatus <> null and dependents <> null and street <> null and unitNum
<> null and city <> null <> state <> null and zip <> null
inv:  offers->isUnique(o | o.listing)
inv:  reviews->isUnique(i | i.realtor)
inv:  favorites->isUnique(f | f.listing)

context Review
inv:  rating <= 10 and rating >= 1
inv:  comment <> null and comment <> \"

context Response
inv:  textBody <> null and textBody <> \"

context Request
inv:  textBody <> null and textBody <> \"
```