Student 4	**Proposal**	**Approved**
David	**Step 1: High-Level Requirement** Use Case Name: Resource Information Sharing Use Case Brief Description: In this use case, a user can report to everyone in the application about places where they can find shelter, food, supplies, etc (safer places, like higher spots, shelters, places with plenty supplies, medical assistance). The user can also share the location description, or photos of the resource. The shared resources could be seen by any user.	Y
	Faculty/TA Comments:	
	Step 2: Clickable UI Mockups Link: https://drive.google.com/open?id=1sLdZMs0uE6FVO2gqwPPbmjSP8DTLS9j9	Y
	Faculty/TA Comments:	
	Step 3: Elaboration - Use Case Specification See below (min 6 steps in basic flows and 6 alternative flows or rules)	Y
	Faculty/TA Comments:	
	Step 4: Use-Case Analysis Model (OOA) See below	Y
	Faculty/TA Comments:	

Use Case Specification

Participating Actors

The use case is initiated by a Citizen.

Brief Description

The use case allows the citizen to report to everyone in the application about places where they can find shelter, food, supplies, etc (safer places, like higher spots, shelters, places with plenty supplies, medical assistance). The user can also share the location description, or photos of the resource. The shared resources could be seen by any user.

Assumption

The Citizen is logged into the system.

Flow of Events

Basic Flow

1. The use case starts when the citizen elects the Resource Option.

a. The system shows all the registered **Resources.**

2. The Citizen elects to share a new **Resource Information**.
    3. The system asks the citizen for a general name to identify the **Resource** and provides a space to write the name.

4. The Citizen provides a *Resource Name*
    5. The system asks the citizen to select a type of resource.

6. The Citizen selects “*Supplies*” as type of resource
    7. The system provides a space to Citizen to answer the next questions:
        a. *What type of supplies are users going to find?* (*Refer to Supplies fields rules*)
        b. *Are there enough supplies?* (*Refer to Supplies fields rules*)
        c. *Is it an easy place to access?* (*Refer to Supplies fields rules*)

8. The Citizen provides information asked by the system and selects “continue”
    9. The system validates the required fields. (*Refer to Resource Type field rules*), saves the information.
    10. The system provides a field to specify a description about the *Resource Location.*

11. The Citizen provides a description the *Resource Location* and selects to “continue”
    12. The system validates the required fields. (*Refer to Resource Type field rules*), saves the information
    13. The system provides a space to *add a picture* of the **Resource.**

14. The Citizen provides a **Resource** picture and selects the “Save Resource Information” option.
    15. The system asks for confirmation to the user .
  16. The Citizen provides a confirmation
    17. The system validates the required fields. (*Refer to Resource Type field rules*), stores the **Resource** information and displays the *Resource Name* on the public chat (together with the username of the Citizen who registered the **Resource Information** and timestamp) so everyone can see it. The use case ends.

<u>Alternative Flows</u>

- A1. In step 6, if the Citizen selects “*Medical Assistance*” as type or resource,
    - A1.2 The system provides a space to the Citizen to answer the next questions:
        - *What type of medical assistance are users going to find here?(*Refer to Medical Assistance fields rules)
        - *Are drugs available?* (*Refer to Medical Assistance fields rules*)

      The use case returns to step 8.

- A2. In step 6, if the Citizen selects “Shelter” as type or resource,
    - A.2.1 The system provides a space to the Citizen to write a *Shelter description* and answer the next questions:
        - *Are people in the shelter now?* (*Refer to Shelter fields rules)*
        - *Is it enough space for more people?*(*Refer to Shelter fields rules*)

      The use case returns to step 8.

- A3 In step 14, if the Citizen adds a *Resource picture* and the citizen elects to erase the added picture.
    - A3.1. The system removes the picture added. The use case returns to step 13.

- A4 in step 14 if the citizen provides a picture that exceeds the file limit size, the system doesn’t add the picture to the form and the system indicates a message about exceeding the limit size of the file. (*Refer to Resource Pictures fields rules*). The use case returns to step 13.

- A5 In step 12 if some of the required fields are not filled by the Citizen, the system returns to step 2 showing the information previously filled and indicating the missing mandatory field., The use case returns to step 11.

- A6 In step 13, if the Citizen doesn’t give a confirmation, the use case returns to step 2, showing the information previously filled.

- A7 In step 1 if the user elects one **Resource** on the registered resources.
    - A 7.1 the system displays the Resource Information previously registered on read-only mode.The use case ends.

<u>Rules</u>

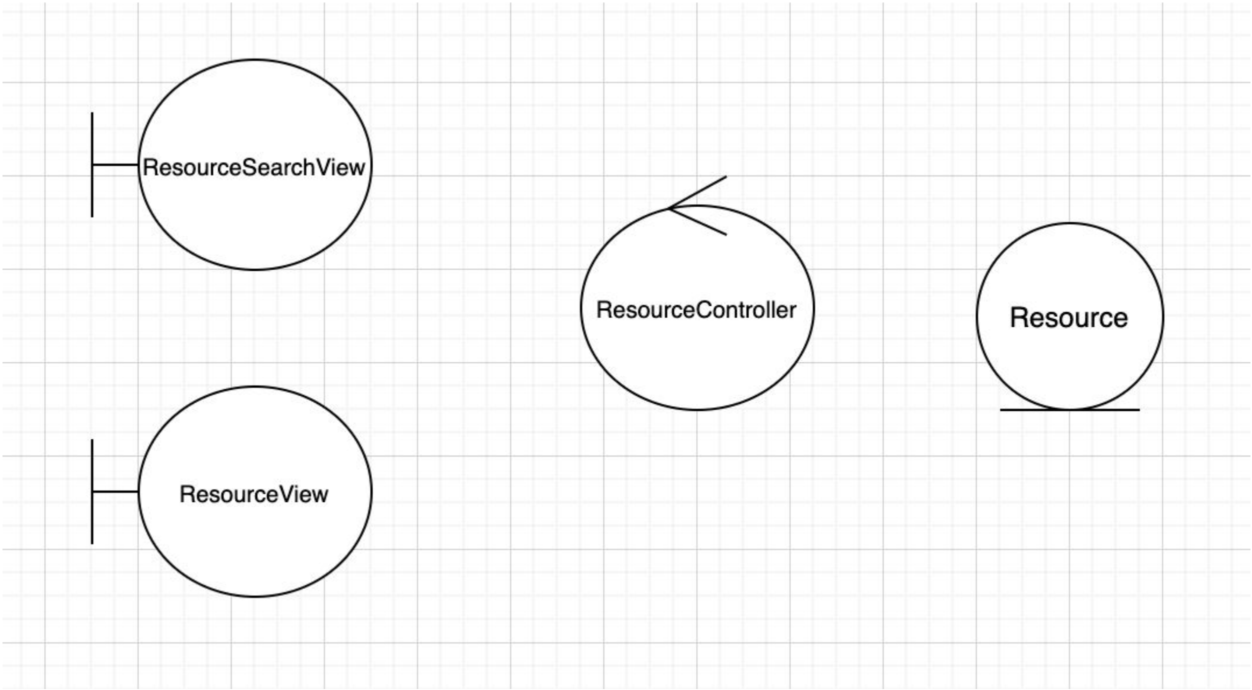
- **Supplies fields rules:**
    - For the field **“***What type of supplies are users going to find?***”,** the system shows an open text field. (Mandatory field)
    - For the field “*Are there enough supplies?”,* the system only displays two options to select (Mandatory field):
        - Yes
        - No
- **Medical Assistance fields rules**
    - For the field *“What type of medical assistance are users going to find here?”***,** the system shows an open text field. (Mandatory field)
    - For the field *“Are drugs available?”,* the system only displays two options to select (Mandatory field):
        - Yes

        - No

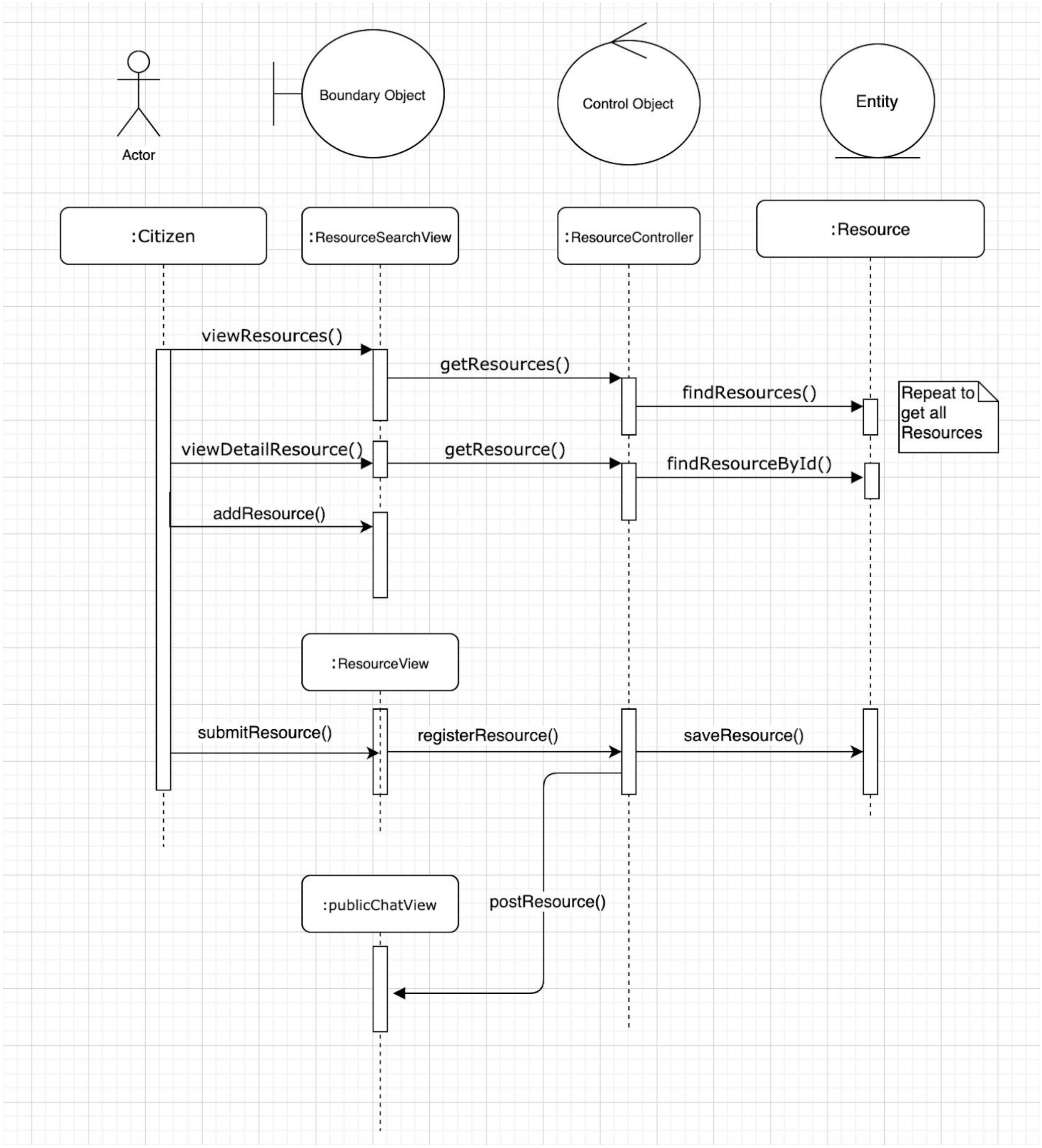
- **Shelter fields rules:**
    - For field **“***Are people in the shelter now?” ,* the system only displays two options to select (Mandatory field):
        - Yes
        - No
    - For field **“***Are drugs available?”,* the system only displays two options to select (Mandatory field):
        - Yes
        - No
- **Pictures field rule:**
    - Maximum size picture 10 Mb.

Use Case Analysis Model (OOA)

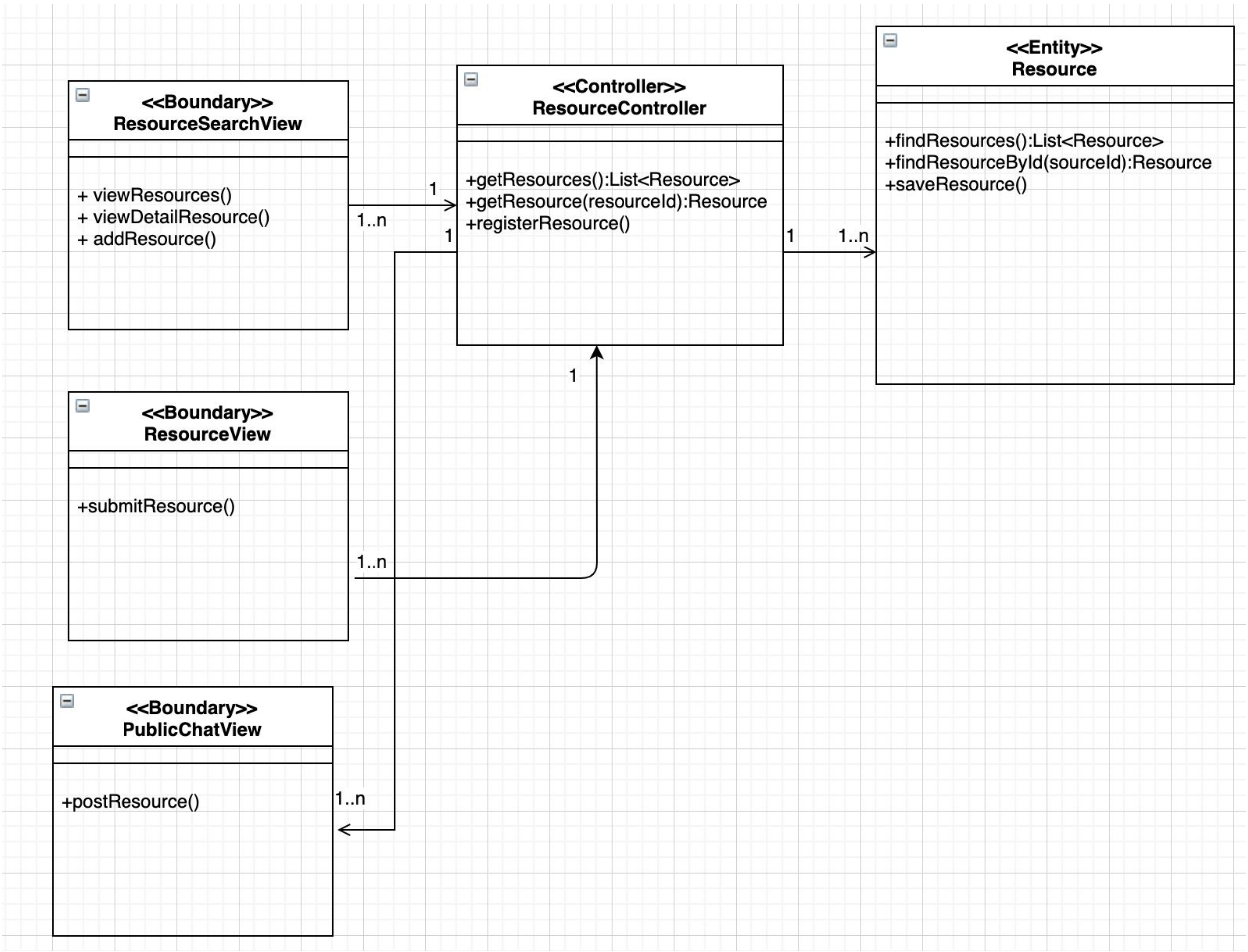
Analysis Classes:



Sequence diagram:



Class diagram:



Mapping Between Analysis Classes and Code:

Analysis Classes	**Implementation Elements** (e.g. modules, files, components, databases)
ResourceSearchView	resource_list.ejs
ResourceView	resource_page.ejs
PublicChatView	public_chat_content.ejs
ResourceController	ResourceController.js
Resource	resource.js

Quality Report (for your individual branch only, not master)

Unit tests you added in Iteration 4

Module/File Tested	# Tests	# Failing Tests
Resources/resource.test.js	4	2

Integration tests you added in Iteration 4

Module/File Tested	# Tests	# Failing Tests
Resources/resources.test.js	3	1

Bugs found through testing in Iteration 4

Module/File	Description	Fixed? (Y/N/Partially)
Resources/ResourceController.js	Incorrect manage of image request to the controller and data binding	Y

Coverage (your branch only)

Line Coverage	85.04%
Branch coverage	80%