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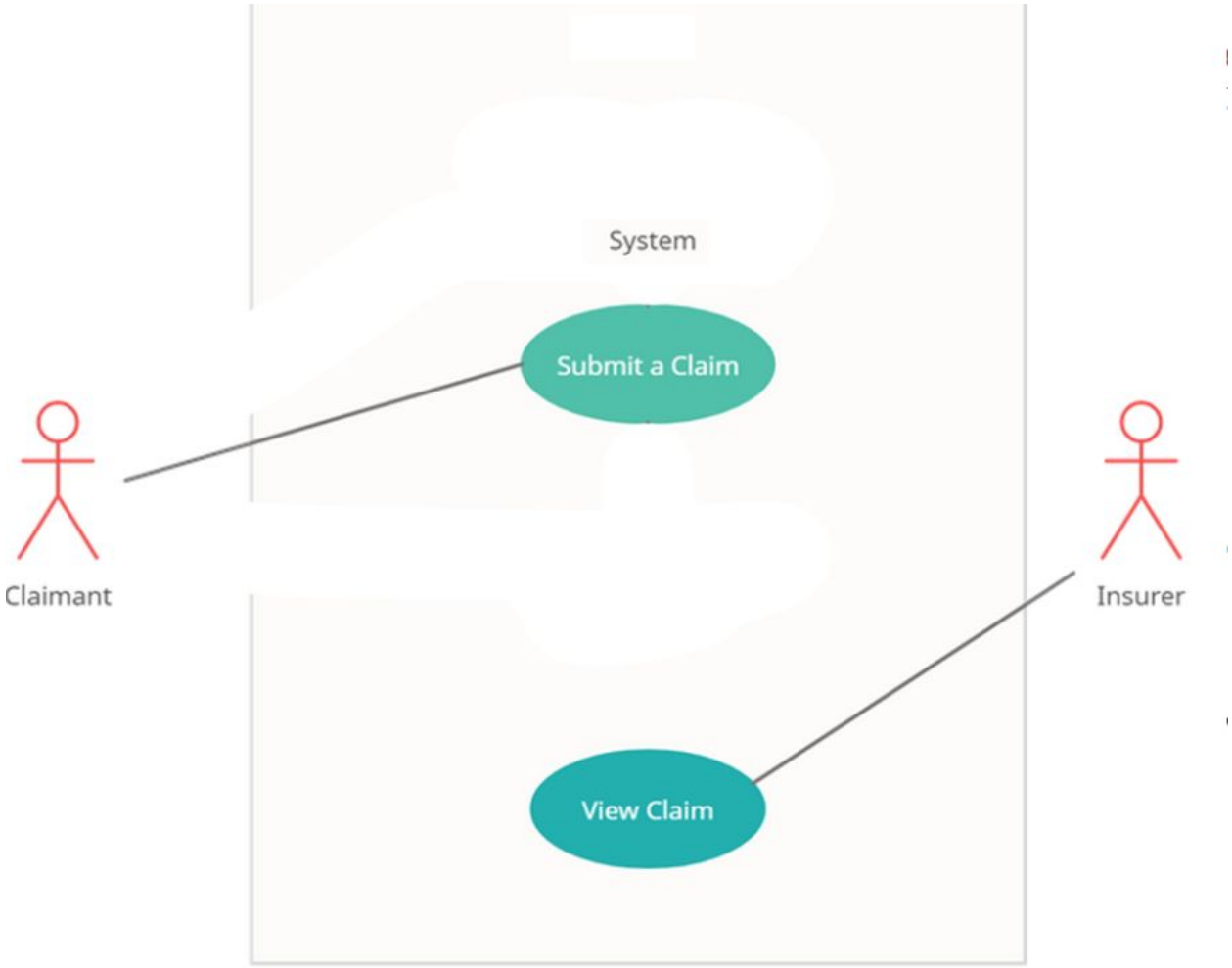
CS 410 - Software Project

System Requirements

General Usage

This is an application that provides an optimized user experience for policyholders of The Hartford to collect all the required information for a car insurance claim. A user should be able to submit a claim. If the system recipes a claim with the minimum required information it will be submitted. The user receives validation after submitting, i.e. whether it was successful or not. The user also receives a claim number. The claim should also be stored and be viewable by the insurer.

Use case Diagram



The claimant shall be provided with a front-end user interface which they may use to make an insurance claim. The system shall provide the claimant with some kind of validation (whether or not the claim was filled out

successfully). The insurer shall be provided with an interface which lists the claims currently stored by the system.

User Stories

1. As a claimant, I want to submit a claim, so that I can be compensated for an accident.

2. As an insurer, I want to view a claim made by a claimant, so that I can process their claim.

Pre and Post Conditions

1. **Pre condition:** The claimant has the needed information to satisfy the minimum required information to submit a claim.
   Post condition: The server would verify the information and write to the database if valid. The server then sends confirmation and validation.

2. **Pre condition:** A claim needs to be successfully submitted, and then be stored.
   Post condition: The insurer will be able to view any claim made by a claimant.

Story Complexity

1. This story may not be broken down further, because submitting a claim from the user's perspective is simple. They just need to give out some information to be able to submit. Unless the requirements change to need more complex information, the user story cannot be broken down. For example, it can be broken down even further if the user has specific information to give. Such as "as a user I want to submit my name", "as a user, I want to submit my address" etc. Which is not practical, as they are very similar needs, and is not complex.

2. This story may not be broken down further, because viewing a claim is not complex. But this could change when the requirements change and become more complex.

Non-Functional Requirements

1. The technology stack should be open source/free tools and software.
2. The UI needs to have the color scheme of The Hartford.
3. The system needs to store the claims made in a database (i.e, not Excel or a plaintext file).
4. Backend API needs to integrate a third party API. Backend API also needs to read and write to the database.
5. The frontend needs to make calls to the backend API.
6. The claimant needs to get back a validation response after submitting the claim in a reasonable time frame (1 second).

7. Minimum requirements to submit a claim:
    a. Policy Number
    b. Location (Address)
    c. Category of Claim (see iii.org for the 6 categories)
    d. Description of Claim
8. Validation response:
    a. Prompt/display stating the information present is not sufficient.
    b. Prompt/display stating the information was submitted.

Glossary

1. The server: the API server that the claim is submitted to.

2. Color scheme of The Hartford: The standard color format of The Hartford provided by their website