



Course: CSCE 606 Software Engineering

Project: Brazos Valley Contract Management System (BVCOG)

Sprint 4 Plan

Team Roles

Product Owner: Jingrui Mao
Scrum Master: Zhicheng Chen
Developer: Chi-Ming Lee
Developer: Xinyi Zhao
Developer: Kumaran Gowrisankar
Developer: Jingyuan Mu
Developer: Zhaoming Xu
Developer: Nathaniel Bright

Customer Meetings

The meeting was rescheduled from 1 Nov to 5 Nov because of clients' requirements this week. Previously it was supposed to be every Friday to share the latest update and acquire improvements and feedback with clients.

Past Meetings

1. Meeting #1: Scheduled for 11-05-2024 12:30 - 13:30
2. Meeting #2: Scheduled for 11-08-2024 12:30 - 13:30

Meeting #1

Date: 11-05-2024 12:30 - 14:30 CDT

Place: 125 Spence St, College Station, TX 77843

Participants: Susan Lightfoot, Jingrui Mao, Zhicheng Chen, Xinyi Zhao, Zhaoming Xu, Nathaniel Bright, Chi-ming Lee.

Agenda: Discussion on implementation of Edit, Amend and Renew Contract operation, and modification logs to display edit operation details.

Summary:

At the meeting, we showed the client how to edit, amend and renew a contract. It was also shown how these modifications result in changes to the contract status and how the modification details are displayed in the modification log. The client was satisfied with the progress. At the same time, we point out that these features are very complex. More testing is needed to ensure that the functionality is correct.

Additionally, the client requested two new features: rejection notification, soft/hard rejection function. Contracts that are soft rejected can still continue to be modified. However, a hard rejected contract remains approved and cannot be modified. hard rejects a contract only if it is approved. Whenever a reject operation occurs, we need to notify the modifier by email.

Because of time constraints, this meeting focused on presenting the new features to the client. We decided to continue discussing specific development requirements with the client on 8 Nov.

Meeting #2

Date: 11-08-2024 - 12:30 - 14:30 CDT

Place: 125 Spence St, College Station, TX 77843

Participants: Susan Lightfoot, Jingrui Mao, Zhicheng Chen, Xinyi Zhao, Zhaoming Xu, Chi-ming Lee.

Agenda: We discussed the client's requirements in detail.

Summary

The client has made the following requests:

1. Remove the renew interface and only keep the amend interface.
2. The date format should be MM/DD/YY.
3. Implement both soft and hard rejection functions.
4. Notifications should be sent to the modifier upon rejection.
5. The end date should be optional.

Sprint Tasks

Major Client Requirements

1. **Email to modifier if modifications are rejected**

Estimated Story Points: 3

Estimated Development Time: 3 days

User Story #1

Feature: Successfully deliver emails for soft rejection remainder

Scenario: Soft rejection triggers an email to the modifier

Given a contract with ID "12345" exists

And the contract is in a "in progress" state

When the contract is soft rejected with reason "Missing information"

Then an email notification should be sent to the modifier

And the email should contain the contract ID "12345"

And the email should state "Missing information"

And the email should include a reminder to modify and resubmit the contract

User Story #2

Feature: Successfully deliver emails for hard rejection remainder

Scenario: Hard rejection triggers an email to the modifier

Given a contract with ID "67890" exists

And the contract is in an "In Progress" status

When the contract is hard rejected with reason "Final decision made"

Then an email notification should be sent to the modifier

And the email should contain the contract ID "67890"

And the email should state "Final decision made"

And the email should indicate that no further modifications are allowed

And the contract is in an "Approved" status

User Story #3

Feature: The contract and reject information should be displayed properly

Scenario: Modifier views a soft-rejected contract

Given a contract with ID "54321" exists
When the contract is soft rejected with reason "Incomplete data"
When the modifier views the contract details
Then the contract page should display "Soft Rejected"
And it should show the reason "Incomplete data"
And it should indicate that modifications can still be made

Scenario: Modifier views a hard-rejected contract

Given a contract with ID "98765" exists
When the contract is hard rejected with reason "Compliance not met"
When the modifier views the contract details
Then the contract page should display "Approved"
And it should show the reason "Compliance not met"
And it should state that modifications are no longer allowed

2. Implement hard/soft rejection operation

Estimated Story Points: 3

Estimated Development Time: 3 days

User Story #1

Feature: Hard reject operation

Scenario: Hard reject a contract that was modified and previously approved

Given a contract is in "approved" status
When the contract is modified
And the contract status becomes "in progress"
And I hard reject the contract
Then the contract status should be "approved"
And the contract should not be modifiable after being hard rejected

Scenario: Ensure hard rejected contract cannot be modified

Given a contract is in "approved" status
When the contract is modified
And the contract status becomes "in progress"
And I hard reject the contract
And I try to modify the contract
Then the modification should be denied

And I should see an error message saying "Contract cannot be modified after hard rejection"

User Story #2

Feature: Soft reject operation

Scenario: Soft reject a contract without status restrictions

Given a contract is in any status

When I soft reject the contract

Then the contract should be in "soft rejected" status

And I should be able to modify the contract

And the contract should remain modifiable after multiple soft rejections

Scenario: Modify a contract after soft rejection

Given a contract has been soft rejected

When I modify the contract

Then the contract status should remain "in progress"

And I should be able to soft reject again if needed

Other Minor Requirements

1. After Renew/Amend operation, redirect to show page

Estimated Story Points: 1

Estimated Development Time: 1 day

Scenario: Redirect to show page after Renew/Amend operation

Given a contract is selected for renewal or amendment

When I complete the renew/amend operation

Then I should be redirected to the contract's show page

2. When a contract is updated, redirect to view contract

Estimated Story Points: 1

Estimated Development Time: 1 day

Scenario: Redirect to view page after a contract update

Given I am editing a contract

When I save the updated contract

Then I should be redirected to the contract's view page

3. Modification log sorts new to old

Estimated Story Points: 2

Estimated Development Time: 2 days

Scenario: Modification log displays entries sorted from new to old

Given a contract has multiple modification entries

When I view the modification log

Then the entries should be displayed from newest to oldest

4. Help text acts as a hover-triggered bubble rather than a screen

Estimated Story Points: 1

Estimated Development Time: 1 day

Scenario: Help text appears as a hover-triggered bubble

Given a form field with help text

When I hover over the help icon

Then a bubble should appear displaying the help text

And the bubble should disappear when I move the mouse away

5. Change vendor in add a a contract to a drop down

Estimated Story Points: 1

Estimated Development Time: 1 day

Scenario: Vendor selection is a dropdown in contract creation

Given I am on the "Add a Contract" page
When I select a vendor for the contract
Then I should see a dropdown list with vendor options
And I should be able to choose a vendor from the dropdown

Test Coverage Requirements

1. Renew/Amend test and Guarantee coverage above 90%

Finish the pending cucumber test in contract_amend.feature, contract_renew.feature and contract_edit.feature. Guarantee test coverage is above 90%.

2. Legacy pending rspec tests

ContractDocumentsHelper

ReportsHelper

UsersHelper

ContractDocuments GET /index

/users PATCH /update with valid parameters updates the requested user

/users PATCH /update with valid parameters redirects to the user

/vendors PATCH /update with valid parameters updates the requested vendor

/vendors PATCH /update with valid parameters redirects to the vendor

reports/show renders attributes in <p>

Task Assignment

Jingru Mao: Test Coverage Requirements

Zhicheng Chen: Implement hard/soft rejection operation
Chi-Ming Lee: Email to modifier if modifications are rejected

Xinyi Zhao: Modification log sorts new to old

Kumaran Gowrisankar: Legacy pending rspec tests

Jingyuan Mu: Test Coverage Requirements

Zhaoming Xu: Implement hard/soft rejection operation, When a contract is updated, redirect to view contract

Nathaniel Bright: Help text acts as a hover-triggered bubble rather than a screen, Change vendor in add a contract to a drop down, After Renew/Amend operation, redirect to show page

Estimated Development Time for each developer: 3 or 4 days

Legacy Project Improvements

Feature Expansion and Functional Enhancement:

After completing all of the client's initial requirements, we have now moved on to implementing the client's new requests, focusing on the development of the renewal and modification features. Over the past few iterations, I have gained a deeper understanding of the system's data flow, UI framework, and database interactions, which has allowed for a more efficient and smoother implementation of new features.

The core task of this iteration is to add the renewal and modification features. The Renewal feature allows users to easily update the expiration date of a contract, while the Modification feature allows users to make detailed adjustments to the content of a contract. These additions not only give users greater autonomy over contract management, but also ensure the integrity of contract history and change records.

Our Particular Circumstances:

As we expand our functionality, new tasks include the implementation of soft and hard deny functionality, as well as sending email notifications to users after a denied operation. In addition, we will continue to improve our test coverage to ensure the stability and reliability of the new features.

The soft reject feature allows the user to reject a contract under certain conditions but retains the possibility of making further changes to it, while the hard reject feature locks the contract status as rejected and does not allow further changes. Whenever a contract is rejected, either soft or hard, the system will automatically send an email notification to the relevant user, ensuring that all parties involved are kept up-to-date with the status of the contract.

Summary and Sprint Goal

This sprint, we will focus on implementing the soft and hard rejection features, along with automated email notifications for each rejection action. The soft rejection feature will allow users to reject a contract while still keeping it open for future modifications, whereas the hard rejection feature will lock the contract in a rejected state, preventing any further edits.

Additionally, whenever a contract is rejected, an email notification will be sent to inform relevant stakeholders, ensuring prompt awareness of the contract's status. We will also prioritize expanding our test coverage to thoroughly validate these new features, maintaining high reliability and system performance.

We will maintain close communication with the client throughout the sprint to ensure that our implementations align with their expectations. By the end of this sprint, our aim is to deliver a product that not only satisfies the client's current requirements but also paves the way for potential future enhancements.

Links

Github

<https://github.com/BVCOG-Contract-Management/BVGOG-Contract-Manager>

Slack

<https://app.slack.com/client/T07NPJC1ZNW>

Deployment Link

<https://bvcog-d102bb1214eb.herokuapp.com/>

Pivotal Tracker

<https://www.pivotaltracker.com/n/projects/2720655>