



Course: CSCE 606 Software Engineering

Project: Brazos Valley Contract Management System (BVCOG)

Sprint 2 Plan

Team Roles

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

Customer Meetings

Our customer has agreed to meet every week on Friday 1-2pm where we go over the work done since the last update and discuss feedback and requirements.

Past Meetings

1. Meeting #1: Scheduled for 10-04-2024 13:00 - 14:00
2. Meeting #2: Scheduled for 10-11-2024 12:30 - 13:30

Meeting #1

Date: 10-04-2024 - 13:00 - 14:00 CDT
Place: 125 Spence St, College Station, TX 77843
Participants: Susan Lightfoot and all of our team members
Agenda: Discussion on deployment challenges and introduction of new expense tracking project

Summary

During this meeting, we updated the client on the program's current state, highlighting that we have our first MVP with some UI changes and a few user stories

implemented. We discussed the blocker for deployment and email functionality, specifically the need for the necessary decryption keys, and requested the client's IT contact information to coordinate this. Additionally, the client proposed a new project: a software application for calculating and categorizing monthly expenses, which we discussed in detail.

Meeting #2

Date: 10-11-2024 - 12:30 - 13:30 CDT

Place: 125 Spence St, College Station, TX 77843

Participants: Susan Lightfoot and all of our team members

Agenda: Discussion about UI changes and future functionality improvements

Summary

The meeting focused on discussing future functionality enhancements, particularly the UI changes. The team deliberated on how to improve the user interface (UI) to accommodate these changes. Several ideas were proposed for creating a more flexible and user-friendly amendment contract viewer, allowing users to easily navigate and select specific amendments. The group also reviewed potential UI modifications to integrate these changes smoothly. Future steps include developing a prototype and gathering further feedback.

Major Improvements

1. RSpec

RSpec the Helper function

RSpec for ContractMailer: make sure email can be sent correctly

RSpec for ContractDocuments GET/index: make sure the controller work successfully

RSpec for contracts controller POST/PATCH: test for non-arguments/arguments, make sure create/update the contract work.

RSpec for GET /index, GET /show, POST /create, PATCH /update of Reports controller

RSpec for vendors/edit

RSpec for router of the UsersController and ReportsController: make sure the creat/show action can be redirected to the correct url

RSpec for the Users and Vendors PATCH action

2. Email Receival System

User Story #1

Feature: Successfully deliver emails for contract expiration reminder

As a Level 3 user,

So I can inform my managers of contracts which should be renewed

I want the system to send me email reminders for contracts which are expiring soon

User Story #2

Feature: Successfully deliver emails for new user invites

As a Level 3 user,

So that I can add new user to delegate tasks

I want the system to send newly added users an email with the details required to login to the system.

User Story #3

Feature: Successfully deliver emails for password resets

As a user of any level,

So that I can create a new password in case I forget my current password

I want the system to send me an email with a password reset link which opens up a webpage to reset password for my user.

3. Update Fields

Feature: Remove specified fields from the new contract window

Scenario: Specified fields are removed from the new contract window

Given I am on the BVCOG CMS home page

Then I select "Create a Contract"

Then I should not see the "Interim Amount" field

And I should not see the "per day/month/year" field

And I should not see the "Initial Term" field

And I should not see the "Initial Term duration" field

And I should not see the "Value Type" field

Feature: Add Contract Value field to the new contract window

Scenario: Contract Value field is added and correctly configured

Given I am on the BVCOG CMS home page

Then I select "Create a Contract"

Then I should see the "Contract Value" field

And "Contract Value" field should have a maximum value of \$99 million

And "Contract Value" field should be optional

4. Update UI

User Story #1

Feature: Change toolbar color to a lighter shade

As a user of any level,

So that I can have a visually lighter and more comfortable toolbar,

I want the system to change the toolbar color to a lighter shade.

User Story #2

Feature: Close hint window by clicking outside

As a user of any level,
So that I can close the hint window easily without needing to find the close button,
I want the system to allow me to close the hint window by clicking anywhere outside the window.

User Story #3

Feature: Move the hint window close button to the right

As a user of any level,
So that I can intuitively close the hint window,
I want the system to move the close button of the hint window to the right side of the window.

LoFi UI Mockups and Storyboards

1. Contract Expiry Email

REMINDER: Contract expiring soon

This is a friendly reminder that your contract, <Contract Title>, with <Associated Vendor> will be expiring on <Expiration Date>. You have ____ extensions remaining on this contract. Please take the appropriate actions to end or renew this contract.



REMINDER: Automatic Reports – Expiration Report

Contracts Expiring in the Next 30 Days

Entity	Program	Contract Title	Contract Number	Vendor/Agency	Contract Type	Contract Amount
Entity 1	Program A	Contract X	12345	Vendor ABC	Type 1	\$50,000
Entity 2	Program B	Contract Y	67890	Vendor XYZ	Type 2	\$100,000

Contracts Expiring in the Next 60 Days

Entity	Program	Contract Title	Contract Number	Vendor/Agency	Contract Type	Contract Amount
Entity 3	Program C	Contract Z	11223	Vendor DEF	Type 3	\$75,000

Contracts Expiring in the Next 90 Days

Entity	Program	Contract Title	Contract Number	Vendor/Agency	Contract Type	Contract Amount
Entity 4	Program D	Contract W	44556	Vendor LMN	Type 4	\$200,000



2. Update Fields

The image displays two screenshots of a 'New Contract' form, illustrating updates to the 'Length of Contract' field.

Top Screenshot (Initial State):

- Contract Information:**
 - Title:** Management and Operations Services Agreement
 - Number:** J4-100
 - Vendor:** BVCAP
 - Description:** This is the operations agreement between BVCAP and BVCAP. It has an initial term of 5 years with 3 optional 5-year renewals. BVCAP shall serve as the Fiscal Agent and Administrative Entity of all BVCAP programs excluding Head Start.
 - Contract type:** Contract
 - Point of Contact:**
 - Program:**
 - Entity:**
 - Key Words:** Separate key words with a comma
- Length of Contract:** Dropdown menu with options: Interim Amount, Initial Term, Value Type.
- Contract Documents:** Choose files...

Bottom Screenshot (Updated State):

- Contract Information:**
 - Title:** Management and Operations Services Agreement
 - Number:** J4-100
 - Vendor:** BVCAP
 - Description:** This is the operations agreement between BVCAP and BVCAP. It has an initial term of 5 years with 3 optional 5-year renewals. BVCAP shall serve as the Fiscal Agent and Administrative Entity of all BVCAP programs excluding Head Start.
 - Contract type:** Contract
 - Point of Contact:**
 - Program:**
 - Entity:**
 - Key Words:** Separate key words with a comma
- Length of Contract:** Dropdown menu with options: Contract Value, Initial Term, Value Type. The 'Contract Value' option is selected, showing a sub-menu with 'Optional' and 'Fixed' radio buttons. Below the radio buttons, it states: 'This is an optional field. Maximum value is \$99 million.'
- Contract Documents:** Choose files...

3. RSpec

Resolve 27 pending legacy tests

4. Overall UI changes

1. Make the toolbar color lighter.

2. modify the hint window

change the location of close button

Contract Title

The name of the contract/grant/ILA.
This is usually found on the first page of the contract.
Type it exactly, even if it's a long title.

Close



Contract Title

The name of the contract/grant/ILA.
This is usually found on the first page of the contract.
Type it exactly, even if it's a long title.

Close

also, add a feature that allows the hint window to
be closed when clicking anywhere outside of it.

Legacy Project Improvements

UI Enhancements and System Stabilization:

As we approach the conclusion of the project, our focus will be on finalizing the product to ensure both the UI and functionality meet the client's expectations. The existing codebase, which we've been working with, has already provided us with a solid foundation. Over the past sprints, we have gained a deeper understanding of the code's structure and its operational flow. This sprint involves addressing key areas of improvement based on both customer feedback and our analysis.

Our primary tasks will involve modifying the **UI** for enhanced visual appeal, improving code quality, and ensuring email functionalities are fully restored. These updates are designed to create a stable, reliable, and user-friendly system that meets the original project specifications while also incorporating feedback for additional changes.

Our Particular Circumstances:

While most of the initial problems we anticipated were resolved during the earlier phases, we still face the task of refining the email notification system. Addressing this issue is crucial, as it affects major functionalities such as contract reminders, user invitations, and password resets. Alongside this, we will implement changes to the New Contract Window, which requires some fields to be removed and others added per the client's latest specifications.

Additionally, we are focusing on achieving 90%+ code coverage, which will involve writing comprehensive RSpec tests to cover all essential code paths. Achieving this goal will ensure the reliability of the system moving forward, minimizing potential bugs and safeguarding against future issues.

Summary

Our sprint will be dedicated to:

- **UI modifications** to improve the visual and functional aspects of the software.
- **Achieving 90%+ code coverage** by writing and passing all RSpec tests to ensure robust testing.
- **Modifying the New Contract Window** to update fields as per client requirements.
- **Fixing email issues** to enable successful communication for key system notifications.

We will work closely with the client throughout the sprint to ensure all updates align with their expectations. At the end of this sprint, we aim to deliver a stable, fully functional product that not only meets the customer's immediate needs but also sets the groundwork for future enhancements.

Links

Github Link

<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>