Course: CSCE 606 Software Engineering
Project: Brazos Valley Contract Management System (BVCOG)

Sprint 1 Plan

Team Roles

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

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: Introductory call

Future Meetings
1. Meeting #2: Scheduled for 10-04-2024 13:00 - 14:00 (Place TBD)

Meeting #1

Date: 09-27-2024 - 13:00 - 14:00 CDT
Place: BVCOG Office, Bryan, TX
Participants: Susan Lightfoot and all of our team members
Agenda: Introductory call to gather requirements

Summary

In our initial meeting with the customer, we had the chance to evaluate the software's current state and better understand its needs. During this session, we reviewed the existing functionality and gained hands-on experience identifying areas that require improvement. We were informed about a major bug in the system that prevented them from using the application. Currently, the emails sent by the system are not reaching the desired recipients and this affects critical flows such as contract expiry reminders, new user invites and password resets. Therefore, we were advised to prioritize fixing this issue first.

Interestingly, we also discovered that nearly half of the requested changes might not be necessary, as many of these features are already functioning as intended. For example, both the upload and hints features were operational, alongside some minor requests. With this insight, we initiated a discussion on potential improvements to enhance the software further. We plan to revisit and expand on these ideas after completing this sprint.

User Stories

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

Scenario: Get Emails reminder about expiring contracts
        Given There are multiple contracts expiring in 30, 60 and 90 day from now
        Then I should get email about these soon to be expiring contracts

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.

Scenario: Get Emails for new user invite
      Given I submitted the new user invite form
      Then The newly invited user should get an email with the invite details

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.

Scenario: Get Emails for password resets
      Given I click the forgot password link and submitted the form with my user's email
      Then I should get an email with password reset link

User Story #4

File Upload type

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Scenario: Show down arrow on contract type dropdown
    Given I am on the new contract page
    Then I should see a down arrow next to the "Contract Type" dropdown


Scenario: Add "Amendment" to contract type dropdown
    Given I am on the new contract page
    When I select "Amendment" from the contract types dropdown
    And I fill in "Title" with "AmendmentContract"
    And I fill in "Number" with "99"
    And I fill in the vendor field with vendor value "new"
    And I fill in the "contract[new_vendor_name]" field with "Test Vendor"
    And I select "Example User" from the point of contact dropdown
    And I select "Program 1" from the program dropdown
    And I select "Entity 1" from the entity dropdown
    And I select "Continuous" from the end trigger dropdown
    And I fill in the "contract_starts_at" field with "2023-04-01"
    And I fill in "contract[amount_dollar]" with "150"
    And I select "month" from the amount duration dropdown
    And I fill in "contract[initial_term_amount]" with "50"
    And I select "month" from the "Initial term duration" select box
    And I press "Create Contract"
    Then I should see "Contract was successfully created."
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User Story #5

User Invite type drop-down update

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Feature: Change labels of user levels from 1/2/3 to admin/gatekeeper/user
  As an Admin
  So that I can invite a new user with a certain user level
  I can choose user level as admin, gatekeeper or user


Scenario: Check whether user levels has been updated
  Given I am on the BVCOG CMS home page
  When  I select "Invite a User"
  Then  I should be on the New User page
  And   I should see "Admin" from "Level"
  And   I should see "Gatekeeper" from "Level"
  And   I should see "User" from "Level"
  And   I should not see "one" from "Level"
  And   I should not see "two" from "Level"
  And   I should not see "three" from "Level"
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User Story #6

Overall UI changes

Feature: Modify User Interface
As a user
So that I want to see a better interface
I want to see an interface that is more colourful and consistent with the modern windows software

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.

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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

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2. File Upload Type

ⓘ Contract Type

Contract
Grant
Property lease
ILA
MOU / MOA
Letter of intent
Amendment

3. User Invite Dropdown Update

4. Overall UI changes

Legacy Project Improvements

Understanding Legacy Code:

As with all legacy projects, we have an existing codebase to build from. However, we need to understand the codebase first before we can make any updates so as to not break existing functionalities. We have two main approaches to working from this standard. First, we will review the codebase individually and collectively to understand its prior implementation and function. Going through the existing documentation and the comments is a good place to start. Alongside this, the test-first strategy helps to ensure a complete and clear testing suite that we can step through to understand the particular goals of previous students through their own work. Second, we have contacted the team members who were working on this project in the Fall 2023 semester to guide and sync up the current team on the codebase and major functionalities developed by them. We hope that by considering these various aspects we will be able to gather everything needed. In addition to this, we will also work through the original expectations of the project and trace its implementation. The reward to this is twofold. It primarily will further our understanding of the structure and flow of the software to further our understanding of the legacy project. Furthermore, it gives us a chance to verify the current implementation against the original standard which it was meant to perform.

Our Particular Circumstances:

In addition to the standard set of procedures for legacy code, we have further circumstances as well. In the initial meeting, a large number of our initial problems appeared to not, in fact, be present. This leads us to a crossroad with no immediate solution. Thankfully, we have enough work to begin the project though. However, after this work is completed, we have no immediate goals. With this in mind, stepping through the original code may present some opportunities to improve and implement possibly abandoned functionality. Likewise, the customer and our team are going to be coordinating to brainstorm additional features and ideas that would be beneficial to them in a software such as this. However, a concern presented in this methodology is that implementing anything large or drastic may revert the functionality of the software and leave the customer in no better place than before. Heeding this, we will develop a stable implementation of the current software and branch from there.

Summary

Our initial work on this project will largely consist of bug fixing and graphical/minor changes. However, we hope to push the frontier and move to new ideas quickly. Because of this, we will have to work closely with the customer to ensure a productive use of time. Additionally, we will ensure a functional, stable variation of the current implementation such that the customer can have a usable product that covers their original needs. In the case of an incomplete iteration on our part, this will ensure that they can begin use of their desired program.

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