

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

```
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."
```

### User Story #5

### User Invite type drop-down update

```
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"
      I should see "User" from "Level"
 And
       I should not see "one" from "Level"
      I should not see "two" from "Level"
 And
      I should not see "three" from "Level"
```

# 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.



#### REMINDER: Automatic Reports – Expiration Report

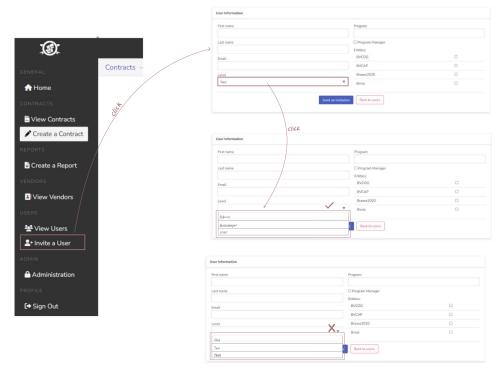
Entity	Program	Contract	Contract Number	Vendor/Agency	Contract	Contract
Entity 1	Program A	Contract X	12345	Vendor ABC	Type 1	\$50,000
Entity 2	Program B	Contract	67890	Vendor XYZ	Type 2	\$100,000
ontra	cts Expiri	ng in the	Next 60 [	Days		
Entity	Program	Contract Title	Contract Number	Vendor/Agency	Contract Type	Contract
Entity 3	Program C	Contract Z	11223	Vendor DEF	Type 3	\$75,000
ontra	cts Expiri	ng in the	Next 90 [	Days		
Entity	Program	Contract Title	Contract Number	Vendor/Agency	Contract Type	Contract
Entity 4	Program D	Contract	44556	Vendor LMN	Type 4	\$200,000

# 2. File Upload Type

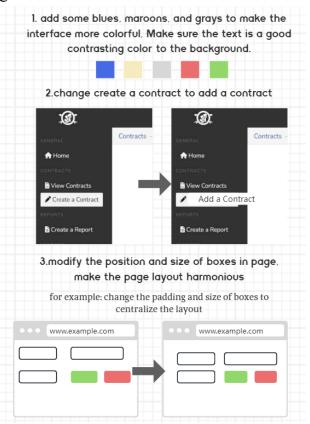
Contract Type

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 <a href="https://github.com/BVCOG-Contract-Management/BVGO

Slack <a href="https://app.slack.com/client/T07NPJC1ZNW">https://app.slack.com/client/T07NPJC1ZNW</a>
Deployment Link <a href="https://bvcog-d102bb1214eb.herokuapp.com/">https://bvcog-d102bb1214eb.herokuapp.com/</a>
Pivotal Tracker <a href="https://www.pivotaltracker.com/n/projects/2720655">https://www.pivotaltracker.com/n/projects/2720655</a>