Team roles:

Scrum master for the sprint: **Sai Nithin**
Product owner for the sprint: **Vinayaka Hegde**
Developer:

- **Chih-Chuan Hsu**
- **Kunal Somendrasingh**
- **Manoj Gurram**
- **Manoj Peta**
- **Sai Padma**

Customer meeting:

We had a meeting with Prof. Beverly Irby, who is the dean of the Educational Administration Department, where we spent two hours discussing the requirements of the project.
Date: 24/9/2024
Time: 5.30 pm
Regular Meeting: The client asks us to schedule a meeting with her every week
Summary of the meet: Prof. Beverly explained about the work carried out previously, and discussed in detail about the 4 methods of the survey results. Then, she dived deep into each of the methods, and explained why it is important for us to consider all 4 methods. Then, she explained about the SLT theory on which the model is based on. Further, she explained that we have to construct a tetrahedron using all the four parameters, and she also briefed on the requirements of the project. The main requirement is to create a dashboard that provides her with the database access, and also to create a new user interface that helps her to analyze and visualize the results of the survey.

Summary:

The project is a legacy system that was created to assist Prof. Beverly from the Educational Administration department to record surveys from 3 roles of users - Teacher, Supervisor, and Principal. The results of the survey are stored in a database called Organizational and Leadership Inventory. The backend consists of a database that stores the results of the 97 questions of surveys, and the frontend displays a tetrahedron, where each side corresponds to one of the four values demonstrated by the person. The values that are considered while constructing the tetrahedron are:
1. Organizational structure
2. Values and attitude of the person
3. Leadership behavior of the person
4. External factors

Therefore, our aim is to revamp the legacy code, and add new features according to the requirements of the client.

The new features proposed by the client:
1. Improve the legacy backend that currently takes surveys of people across 3 roles - Teacher, Supervisor, and Principal.
2. Create a new frontend that displays a tetrahedron, where each side corresponds to each element of the survey.
3. Provide access to the data of the surveys, either in the form of a csv file, or in the form of an admin dashboard.
4. Create a new user interface for any of the Teacher/Supervisor/Principal to view the results of the surveys that they were a part of.

Stakeholders:

The major stakeholders of the project are the Teacher, Supervisor, Principal. Additionally, we propose to provide access to all the data of the database to Prof. Beverly, who is not only the client, but also the admin of this project.

User stories:

1.

```
Test: Test the existing legacy code to validate it
As a person who is participating in a survey
So that the legacy code of conducting the survey works
Validate by matching the results of the survey and the responses
```

2.

```
Feature: Create the tetrahedron model and display it
As the client who is analyzing the results of the survey
So that the required tetrahedron is formed based on the results
of the survey
Display the tetrahedron in the client's UI after constructing it
```

3.

```
Feature: Create a new user interface to view survey results
As the person who participated in the survey
So that the person is able to validate the information entered
is being correctly captured in the survey
The person has to be able to validate the results of the survey
against the responses recorded by the UI
```

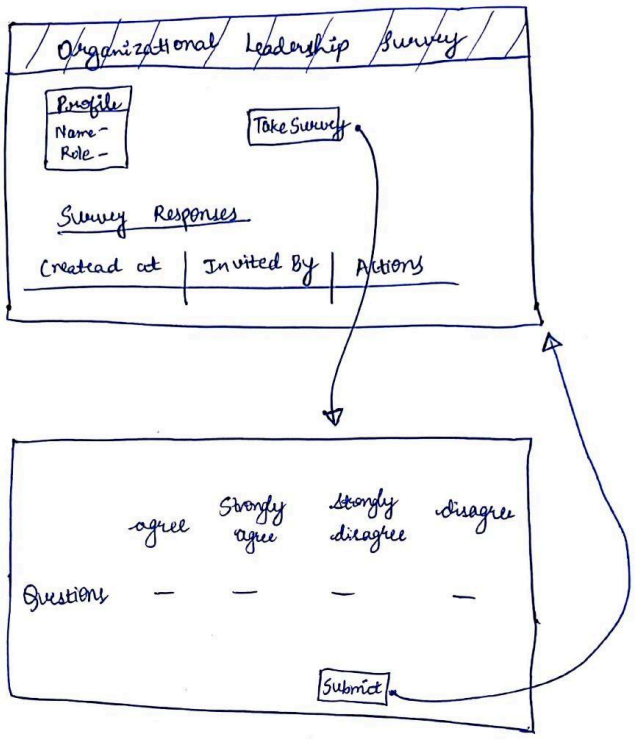
4.

```
Feature: Provide the client with the access to the data
```

As the client, Prof. Beverly who analyzes the results of the survey
So that the client is able to analyze the responses
Provide the client with a dashboard which enables her to analyze the responses of the survey

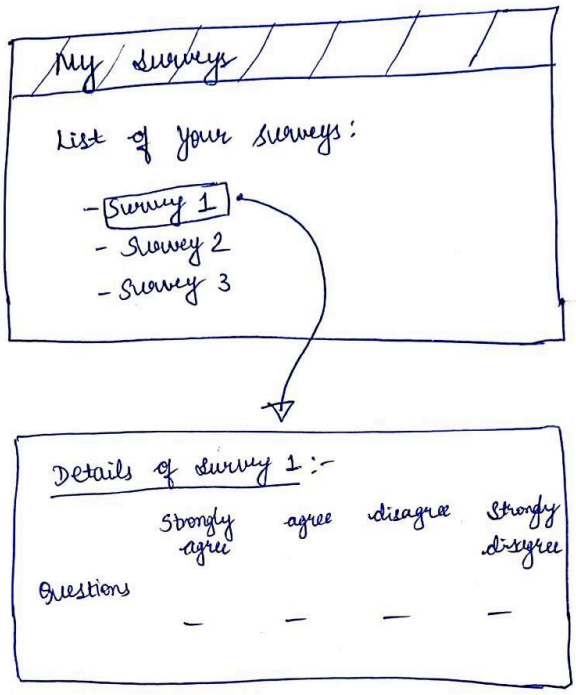
User interface:

1. **First story**



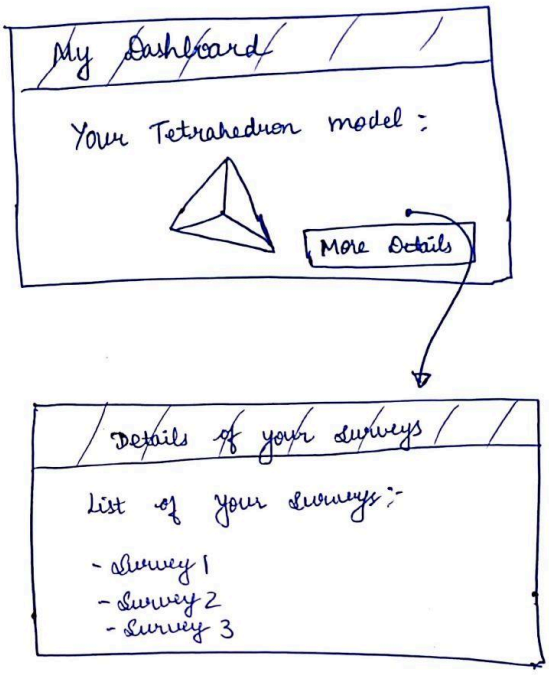
Story 1 :- Test the survey by participating in the surveys and validating the responses.

2. Second story



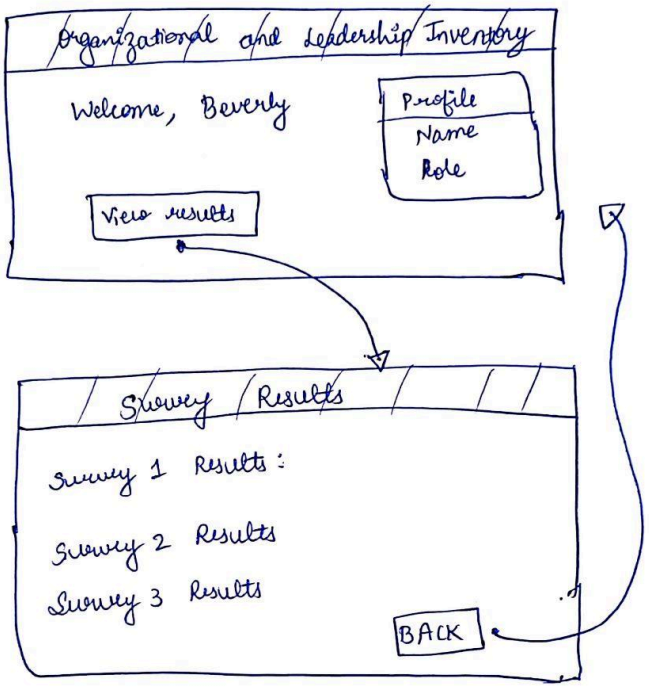
Story 2 :- create a new UI for the user to view their surveys.
(Feature)

3. **Third story**



Story 3 :- (Feature) Create the tetrahedron model, and display it based on the results of the surveys of the user.

4. Fourth Story



Story 4 :- (Feature) Provide the client access to the database by creating a new dashboard

Sprint Backlog

The main goal of this sprint is to verify the correctness of the legacy code. We do this by the following steps:

1. Taking a survey and verifying if the results of the survey match with the responses recorded
2. Cloning and reproducing the codebase locally, and verifying if it works as expected

Additionally, we plan to add new features like:

1. Creating a new UI for the individual users to view their survey results
2. Providing the client with access to the database

There are 4 stories pulled into the sprint, and are provided below:

1. Taking a survey and verifying if the results of the survey match with the responses recorded - **3 points (assigned to Kunal)**

Time estimate: 1 week

2. Cloning and reproducing the codebase locally, and verifying if it works as expected - **3 points (assigned to Manoj)**

Time estimate: 2 weeks

3. Creating a new UI for the individual users to view their survey results - **2 points (assigned to Sai nithin)**

Time estimate: 2 weeks

4. Providing the client with access to the database - **3 points (assigned to Sai akarsh)**

Time estimate: 2 weeks

Links :

Link to the deployed app:
https://elrc-app-dfcfc7cd862b.herokuapp.com/

Link to the Github repo:
https://github.com/tamu-edu-students/csce606-ELRC-OLEI_Project

Link to the Slack workspace:
https://elrcproject.slack.com/archives/C07NQ0G0TSL

Link to the pivotal tracker:
https://www.pivotaltracker.com/n/projects/2720653

Legacy Project Notes

Currently, there are two main problems from the previous work, and they are aligned with the user stories.

1. Database Access

The data model is completed. However, the access to the database and the user interface to manage this database are still on the fly. We need to build the management system of this database. At the same time, we should design a login and authentication mechanism to give permission to the client.

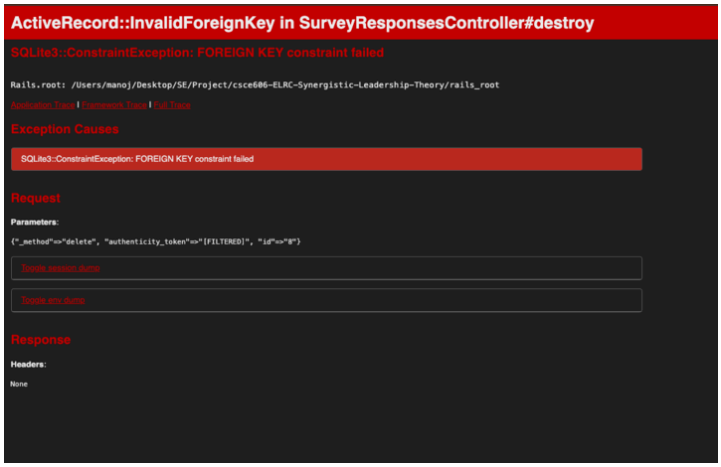
2. Tetrahedron

Currently, the visualization of the tetrahedron is done by the previous team. Nonetheless, the visualization doesn't provide users with interaction. The client wants us to improve the user interaction of tetrahedron based on the survey results of each person. For example, we need to show the disadvantage of the person with a shrunken side (Among Organizational Structure , Values and Attitude, Leadership Behavior, External Factors). As a result, we should improve the 3D visualization and design a simple physical movement of the shrunken side.

3. Manually Testing Result

We also found some bugs by manually testing the website.

1) "After submitting the survey, We are facing issues when we try to edit the response or copy an invitation or delete the response."



Solution: Modify the delete and edit functions.

2) "Pressing submit submits the form and only the rows with selected options are shown and skipped rows are missing."
Solution: Discuss with the client first if she wants us to improve.
3) "The show button under Actions takes to the home page with a message displayed saying "You cannot view this result.""
Solution: Modify the function and routes.
4) "Users can submit a response without any evaluation of the performance."
Solution: We can inspect the data when they are submitted.