

PLANNING

This document contains the planning behind the development
of the organization health web app

Brian Mvukwe

Chris Langeveldt

Elizna Horn

Garryk Walker

Jana Van Niekerk

Contents

Scope.....	2
Requirements.....	4
Research.....	5
Plan.....	6
Schedule.....	7
Phase 2 & 3.....	8

Scope

We are required to create a survey program to track, measure and report on the user's organizational health however, we will take this quite a bit further. We will use this collected data and process it through a unique algorithm to return useful and accurate responses to the data.

We will develop a web-based app to perform this service. Our web-based app will be accompanied by a database to hold the data for future use and to store the history of the user's progress. This app will need to be accessed from our client's website via a weblink. This will allow multiple users to connect on their own devices to take the survey.

Requirements

We are required to create a web-based app that can be accessible via a weblink on the client's webpage.

Our clients must be able to identify themselves as an “administrator” and upload a unique code for users.

The user must enter the unique identifying code to be able to complete the survey, as well as to identify the user as unique.

The user will then be able to answer questions (NB making use of a slider to decide their answer, where the slider will be placed where the user feels it fits best. NB not a numerical value, but rather a “best fit” between “weak” and “strong”).

Once the questions have all been completed, the results must be stored in our database, as well as be run through our unique algorithm to determine the strengths and weaknesses in the organization.

Once the data has been processed, it must be displayed back to the user via informative, accurate and eye-catching methods, such as graphs.

We should also be able to compare this information to previous attempts to show progress (good or bad).

This information should also be able to be downloadable as a pdf or shared via email. (It could be sufficient to download the information as a pdf, as the client could then share the pdf via their own methods outside of the app).

Research

We need to ascertain this algorithm, already developed by our clients, and convert this pseudocode into actual code.

We need to determine the steps and processes taken to develop their currently existing website; this is a key visual feature to keep our app visually similar to the current aesthetic of their website.

Develop a method of displaying the information in a pdf downloadable format, as well as how to implement a downloadable pdf.

Following the initial meeting with the client, after which they suggested we investigate Figma Live Frames that could potentially be used in designing the UI, we had to do a bit of research. The following is what we found after researching Figma.

Figma is a design tool that can help developers create anything from websites and applications to logos. For the purpose of this project our team will use it to design the User Interface and design a unique User Experience. Figma has functionalities like:

- ➔ Design files
- ➔ Design assets
- ➔ Frames
- ➔ Shapes
- ➔ The ability to import pictures
- ➔ Labeling and grouping
- ➔ Inserting text
- ➔ Different fonts and Figma colors
- ➔ Updating sections
- ➔ Prototype viewer
- ➔ Prototype interactions

All of these features allow us, developers and designers of the product that we are building to have a wider variety of tools at our disposal to ensure the product we are building can be as user friendly as possible.

Another great Figma feature is that the designing and building of the UI can be collaborative. They allow for teams to work dynamically together which is great since everyone can be kept in the loop and are made aware of all changes etc.

Figma can be used by joining with a free account. Figma can also be used in conjunction with React. All that is required is to install the plugin, FigAct. Depending on the preference of the team and the client and the availability of time, we will definitely consider using Figma for developing the UI.

Plan

Before any code is written, the documentation should be completed. Once our documentation is completed and satisfactorily accurate, we may then begin to implement the development of our software. These documents include:

- A dev cycle.
- A BRD and PRD.
- User stories.
- A high-level software design.

Once these documents are completed, we may begin our implementation.

Schedule

Documentation should be completed to above requirements by

Client deadlines:

Sprint 1: 18 August 2022.

Sprint 2: 16 September 2022.

Sprint 3: 14 October 2022.

Key:

1-9 Denotes how many hours are estimates until completion

X Denotes a completed section ready for testing

Phase 2 & 3

TASK								
Create The database								
Create frontend page to enter unique code								
Link frontend and backend								

Implement question pages								
Add sufficient tables to store sufficient tables to store relevant data								
Implement algorithm								
Generate output (Including the output from previous surveys)								
Implement PDF download feature								
Implement user-friendly techniques								

(This table will be amended as new features are planned and removed).