CEN 4010-001 Principles of Software Engineering 2020

- Team name: COVID 10
- Project name: Connections during Social Distancing
- Team number: 10
- Names of students:

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- Peer evaluation grading rubric:

Group members	Grade
Shelly Penichet	20%
Thomas Buzaki	26.6%
Bobby Revelo	26.6%
Steffi Philip	26.6%

- History table:

1. **Executive Summary:**

[The project name] is an interactive website that has 4 main informative features related to the lock-down. It will allow the user to have access to various essential resources and alternative methods while staying indoors. Features include food, health, lifestyle and news and each of them have links and videos for better understanding. For example, for food; users can enter their diet category and the output will include links to various recipes; healthy diet plans and substitutions as well as online shopping resources. The health feature provides information about the symptoms of the virus and locations for testing; DIY links for masks and hand sanitizers; preventive methods and tips on how to maintain physical health[example: indoor exercises]. Another feature includes news; the following is a daily coverage of events related to COVID-19 as well as other events. It also includes updates about the virus, research on vaccines , reports about various locations with recent changes and developments concerning the same. Lastly the lifestyle feature enables the user to connect and collaborate with others virtually. The feature includes memes, various virtual communication resources, motivational videos and DIYs, users can try out various activities and still be able to stay close to friends and family virtually. The website is accessible to everyone and does not require the user to have any prior knowledge about the topic.

2. **Competitive analysis:**

Since our product is kind of like a combination of other products directed for the Pandemic, the following products would be apps that are similar to the sub-products of our product.

- Project Foodie: Guided Cooking - cook delicious quality meals alongside a professional chef in the comfort of your kitchen.
- Apple's Covid-19 App - informational app about Covid-19, where to get tested and news on Covid-19.
- Nextdoor - Neighborhood hub for connections and exchange of helpful information, goods, and services.
- GoNoodle - features over 300 videos on dance, yoga, mindfulness, and other types of exercise.

These apps are tailored to their specific features which gives them the advantage of specification. In our product we would be essentially combining certain aspects of these apps into one single one specifically for the times of the pandemic. The Quarantine lifestyle is at large and it will be for a while. Having an app tailored to Covid-19 would serve the purpose of only having to go to one app. That is the key advantage of our product.

3. **Data definition:**

- Users: these are the people that come to the website and use it and its resources.

- User ID: a unique user ID that users can use to log into the website. This feature is not a mandatory feature, however, potential use of this feature may occur as the project develops.
- User Password: a unique password that users can use to log into the website. This feature is not a mandatory feature, however, potential use of this feature may occur as the project develops.
- Links: website links to external websites.

4. **Overview, scenarios and use cases:**

Our website will be an interactive site that helps educate users about different aspects of the Covid-19 virus, information related to the lock-down, and links to online markets where users can purchase necessary goods. Information on the site will be grouped into four main categories that users can navigate at will - Food: this will have links to online supermarkets where users can purchase food, information about eating healthy, and alternative food options for vegans and vegetarians; Health: this category will have information about the virus itself, such as symptoms and suggestions to manage symptoms, as well as tips to prevent yourself from catching or spreading the virus; News: this section will contain recent updates to Federal guidelines for handling the virus, including any Federal lock-downs or travel restrictions; Lifestyle: this will contain suggestions on activities to do during lock-down.

5. **Initial list of high-level functional requirements:**

- Goals: provide detailed information related to the pandemic; each feature added as the project is reviewed and validated by the user. Errors are fixed to ensure the website is running.
- User authentication: approved users who can access the website; reduced security breach
- End user perspective: Feedback is essential; documented descriptions that will help the team get better understanding of what the user wants.
- Server authentication: permission to store files in public_HTML and upload the page using LAMP; follows each terms and conditions.

6. **List of non-functional requirements:**

   The interactive website will be designed to load at a faster rate however since it is not yet built; user input delay time and user access time per hour can vary although overall performance will be faster. The website will be compatible with multiple browsers such as Chrome, Internet Explorer, etc. User ID and password will help protect information being entered from security attacks. Also the website is very easy to navigate as each feature presents detailed information and links. The website will be reviewed and checked each time to make sure errors are resolved and running.

7. **High-level system architecture:**

For our interactive website we will be using Brackets as the main HTML testing software.

Languages that we will be using are HTML, Bootstrap, JAVA and CSS.

Supported browsers for our bootstrap 4 template at this time will be Google Chrome, Firefox and mobile devices.

List of APIs that we would like to incorporate:

- Moderator API – Google Moderator is a tool for collecting ideas, questions, and recommendations from any size audience. The API allows your website or application to do the same. For user feedback about our website. We can also use this api to collect the data and have it displayed on our website, that way our users can interact and share ideas.
- Places API – Google Places is a large directory of local businesses and attractions all around the world. The Places API lets you access that information and display it on your website, as well as display check-ins by users.
- Answers API – The Answers API lets you access the collective knowledge contained within Yahoo! Answers. You can search Answers based on a variety of criteria (including specific user, category, and more), set your app to watch for new questions in the categories you choose, and track new answers from specific users.
- Nutrition API Documentation-This API has Nutrition and food Recipes, it allows you to access over 365,000 recipes and 86,000 food products. It can also calculate nutritional information on the recipes you choose.

We will also like to include some fun APIs that can use cookies to gather information on the links that the user has navigated through in our website, do an analysis on the information within our program and in return use the Spotify API to choose a song that is different for every user.

Another example is The Dog API which allows you to search for dog photos, find information about different dog breeds, and more.

Just something fun for our users to do while social distancing during Covid-19. These APIs are still in the testing phase, however, potential use of this feature may or may not occur as the project develops.

8. **Team:**
    - Scrum master: Shelly Penichet
    - Product owner: Steffi Philip
    - Front end lead: Bobby Revelo
    - Back end lead: Thomas Buzaki
9. **Checklist:**
    - ✓ Team decided on basic means of communications
    - ✓ Team found a time slot to meet outside of the class
    - ✓ Front and back end team leads chosen
    - ✓ Github master chosen
    - ✓ Team ready and able to use the chosen back and front-end frameworks
    - ✓ Skills of each team member defined and known to all
    - ✓ Team lead ensured that all team members read the final M1 and agree/understand it before submission
10. Github link for M1: https://github.com/cen4010-s2020-g10/Covid10.git