**2.1** Description of Features

This section describes the features that the site will provide for its users.

**2.1.1** Login and Registration

Users will login and register through Facebook. Upon visiting the site, the navigation bar will present a Login button on the far right. Users who are signed in have the option to subscribe to the newsletter and pay for premium.

**2.1.2** Viewing Home Page

Users will be directed to the home page upon visiting the site. This page will display the company’s logo and slogan. The navigation bar will be displayed at the top at all times. Users can return later to the home through the navigation bar.

**2.1.3** Accessing Blogs

Users can access the blogs page through the navigation bar. The blog page will show a list of blogs that the user can select. Selecting a blog allows the user to view it and add comments to it.

**2.1.4** Viewing Courses

The courses page is also accessed through the navigation bar. All users will have the option to view certain videos. Most videos will require the user to have a premium status, however.

**2.1.5** Checking Socials

Users have the choice to view the socials page from the navigation bar. This page will display the present calendar and show the events that are happening on the selected date. Users will be able to select a date, view the events on that date, RSVP to an event, and see the other users who have sent an RSVP.

**2.1.6** Joining Premium

Upon logging in or viewing their profile, users have the chance to join the premium service of the site. This will give them access to the premium courses in the video library. Selecting the Join Premium option will give the users a chance to provide their payment information.

**2.2** Admin Content Page Instructional

This section describes instructions for the administrator to review and update the content within the site.

**2.2.1** Administrative Dashboard

All administrative tasks are accomplished through the admin page, also referred to as the administrative dashboard. When signed in as the administrator, the navigation bar will include a link to the admin page. This dashboard will show a graph of user activity and a taskbar on the left for additional navigation.

**2.2.2** Viewing All Users

Select the Manage Users option from the taskbar on the left. This will display a list of all users, including email, subscription status, and subscription status. The administrator can manually change any of these options for each user.

**2.2.3** Managing Blog Posts

Select the Manage Blog option from the taskbar. This will display a list of current blogs and an option to Add Blog. If Add Blog is selected, the administrator may choose a title and the content for the new blog. If an existing blog is selected, options will be displayed to edit that blog’s content or delete any of its comments.

**2.2.4** Changing Course Content

Select the Manage Courses option from the taskbar. This will show a list of all courses and an Add Course option. Selecting Add Course will prompt for a video to be uploaded, a title of the course, and a checkbox for if the course is exclusive to premium users. When viewing the list of active courses, each course will have an option to delete and change the premium requirement of that course.

**2.2.5** Editing Social Events

Select the Manage Events option from the taskbar. This will display a calendar with the present date highlighted, an option to Add Event, and a list of current events on that date. Select a different date on the calendar to view events on that day. When Add Event is selected, the administrator will be prompted for the name of the event, the date and time it occurs at, and any additional information. If an event is selected from the current event list, options will be displayed to delete the event, change its date and/or time, and edit the additional information.

Section 3. System Capabilities, Conditions, and

Constraints

**3.1 Business Requirements**

The client requested the development of a web app that would allow its users to “enter their email to be added to the newsletter list, access blog, course store, and find our socials.”

**3.2 Functional Requirements**

*Users will be able to 1) login and register 2) access and comment on the blog page 3) view the course videos and purchase a premium membership and 4) view the social events and RSVP. Administrators will be able to 5) access the admin dashboard and 6) edit other pages.*

*The functions to be implemented are 1) login and registration 2) blog content storage 3) course video player and 4) administrator modifications.*

**3.2.1** User Login and Registration

**3.2.1.1 Facebook Login**

Users will access their account by logging in through Facebook. This method will ensure security of information and allow easier access for the user. The Facebook login button will be present at all times in the upper right corner of the navigation bar, until the user signs in.

**3.2.1.1 Firebase**

This web app utilizes Firebase to store users’ login credentials. This system creates data tables in which user information, such as membership and subscription status, is stored.

**3.2.1.3 Login and Registration Operations**

Once users successfully sign into Facebook, their information is sent to our app ineach of the designated fields and submitted to be firebase tables. The program will then search the database for the user and make an account if they didn’t already have one. If the user doesn’t have an account already they will be asked if they want to subscribe to the Newsletter and if they want to sign up for a premium or free account.

**3.2.1.4 Login and Registration Outputs**

*Once the user’s information has been successfully analyzed the login will immediately redirect the user to the app’s home page.*

**3.2.2** Blog

**3.2.2.1 Blog Purpose**

All blog content will be accessed through Firebase to allow users and the administrator to interact with the content.

**3.2.2.2 Blog Inputs**

The administrator will provide all content within each blog and reserve the power to remove user comments. Users will provide comments to any blog, which will be visible to other users.

**3.2.2.3 Blog Inputs**

The administrator will provide all content within each blog and reserve the power to remove user comments. Users will provide comments to any blog, which will be visible to other users.

**3.2.2.4 Blog Operations**

Blog content will also be stored through Firebase. When a user selects a certain post, the Firebase will send the needed information for that blog. When a user comments a blog, the system will send that information to be stored in the Firebase.

**3.2.2.5 Blog Outputs**

The outputs will be the data stored within the database. The outputs for a certain blog will be displayed upon a user selecting that blog.

**3.2.3** Videos

**3.2.3.2 Youtube Media Player**

The course videos will be utilizing youtube's media playerin order to be viewed and interacted. This will allow the users to view the videos without needing external downloads.

**3.2.3.2 Firebase Storage**

Video content will also be stored through Firebase. When a user selects a certain course video, the Firebase will send the needed information for that media player.

**3.2.3.3 Video Inputs**

The inputs to the media player stem from the youtube media player implementation. This allows the users to make requests to the player, such as playing/pausing the video or requesting a different video resolution.

**3.2.3.4 Video Outputs**

In response to the user input the media player outputs video based on the specifications the user selects.

**3.2.4** Payment system

**3.2.4.1 Stripe**

*Upon user request for premium subscription, users will be asked to provide their payment information to stripe. Stripe will then perform the transaction of the amount specified by the client for the subscription. Once the payment process is complete, stripe will notify the webapp of the successful purchase.*

**3.2.4.2 Firebase**

*In response to the notification of a successful purchase of a premium subscription, firebase will immediately locate the user’s information in the database and update the table in order to list them as a premium user.*

**3.2.5** Administrative Modifications

**3.2.5.1 Updating Firebase**

Upon accessing the Administrative Dashboard, the administrator may choose to manage users, blogs, events, or courses. The administrator will then input or remove the chosen data. This will send a request to the Firebase, where the action will be performed, and Firebase will return an updated response to the administrator and the users with the new change.