

# **Music Matters Booking System**

## **Cycle 1 Report**

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*Completed By Chase Dumbacher*

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# **Executive Summary (System Metaphor)**

*Completed By Chase Dumbacher*

To design and create an app and online calendar booking system that is capable of recording and organizing artist names, performance time and dates, and venue names as well as automatically creating and emailing invoices and confirmation documents.

## **Project Introduction**

### **Previous Development**

*Completed By Austin Mongold*

So far the mobile app team has fixed several bugs with the prior team's code for the app, verified and tested the functionality of the PDF builder for the app, began work on the emailer functionality of documents, improved UI to be clearer and more bold, and added several quality of life changes to the app. The web team has created the basic framework for the website, added firebase authentication for log-in, gotten firebase data to display on most of the pages, added some basic calendars for future use, and worked to make the website look like Mike wants it to look.

### **Cycle Intent**

*Completed By Austin Mongold*

The app team's intent for this cycle was to finish the document functions and assure that they can properly send emails from the iOS app. The web team's intent for this cycle was to get the academic calendars imported to the web calendar and also work on showing the firebase data in the calendar, and then start to look into making a PDF builder for the website.

### **Future Cycle 3 Plans**

*Completed By Austin Mongold*

The App Team plans to work with Mike to tweak the mobile app to his liking as well as patching up any remaining bugs. The Web Team plans to finish the calendar connection to the fire base and work on an emailer and PDF builder.

# User Stories

## Website User Stories

*Updated By Austin Newkirk*

### Website Dummy

*Completed By Austin Newkirk*

**User Story :** As users, we want to have a basic website setup and accessible.

**Description :** A website will be accessible through a users local computer and will be used as an example and starting point for the envisioned finished website.

**Task :** Create a simple running website using HTML, Javascript, and any other technologies.

**Planned Hours :** 4

**Actual Hours :** 8

**Coder(s) :** Austin Newkirk, Austin Mongold

**Tester(s) :** Austin Newkirk, Austin Mongold

**Status :** Completed

### Cross-Platform Integration (Website and iOS App)

*Completed By Austin Newkirk, Chase Dumbacher*

**User Story :** As users, we want to see the system be usable from both iOS and PC devices.

**Description :** If a user wishes to view the system calendar on their PC they can open a website or application, but if the user wishes to view the system calendar they can open it on their iOS device.

**Task :** Create a web based interface that is capable of taking in the Firebase data and displaying it in a simple non-complete fashion.

**Planned Hours :** 8

**Actual Hours :** TBD (because of the nature of firebase, this user story turned out to be a non-issue)

**Coder(s) :** Austin Newkirk and Austin Mongold on the website, Chase Dumbacher and Sarah Pham on the iOS app

**Tester(s) :** All members

**Status :** Active development

## Ease Of View

*Completed By Austin Newkirk*

**User Story :** As users, we want to see the calendar displayed by the system look similar to the vertex42 calendar display.

**Description :** The calendar for the booking system on the PC application will be big enough to read clearly and will display artist names and performance times without having to click to expand.

Upon further research, developing a whole new calendar system would have been a very daunting task. However, we found out there is an open-source jQuery script that meets the criteria for what Mr. Moody wants, and more. We decided to implement this free, open-source software. [Link](#).

Upon further discussion with Mr. Moody, we needed to make a nice sum of changes to the aesthetics of the calendar to make it more in line with what Mr. Moody is familiar with. The reason for this was because there was a slight miscommunication, as we were making the calendar look more like a google calendar rather than a vertex42 calendar. This has been mostly addressed. There might be minor changes like sizes, colors, etc., but the look as a whole has been finalized.

**Planned Hours : 10**

**Actual Hours : 7 (so far)**

**Coder(s) :** FullCalendar for Calendar creation, Austin Newkirk for calendar implementation, Austin Mongold for data entries.

**Tester(s) :** Austin Newkirk, Austin Mongold

**Status :** Near completion

## Clean UI/Experience

*Completed By Austin Newkirk*

**User Story :** As users, we want to see the applications be as snappy, intuitive, smooth and responsive as possible.

**Description :** Work on things that make the apps feel intuitive and professional as well as making it all feel quick and responsive.

**Task :** Get the aforementioned areas of the app to perform as quick and responsive as possible, but also make them look appealing and user friendly.

Due to the nature of this user story, no code was developed specifically for speeding up the website, as the website's speed is determined by the internet speed of the user as well as the speed of firebase itself. There may be optimizations in code in the future, but the biggest contribution to swiftness is outside our control.

**Planned Hours :** 4

**Actual Hours :** 4 (so far)

**Coder(s) :** Austin Newkirk, Austin Mongold

**Tester(s) :** Austin Newkirk, Austin Mongold

**Status :** Active development (will remain active until project completion)

## Displaying real information on the calendar

*Completed By Austin Newkirk*

**User Story :** As users, we want to see the calendar within the website to display useful information, including times of shows, who's playing, football games, and holidays.

**Description :** Using the information from firebase and integrating it with FullCalendar properly, displaying the same (or perhaps more detailed) information compared to the iOS app.

**Task :** Code the things needed to properly show the data from firebase (and google calendar for holidays) on the FullCalendar seamlessly.

There have been some major issues regarding this User Story. We have managed to display football games, various holidays, test events, and begun the process of adding new events within the web app. However, actively adding data from Firebase to FullCalendar has been problematic. The simple ideas like loops, functions or imports seemingly will not be added to the calendar, and needs further research and development. We have diagnosed the problem (specifically, Firebase seems to work asynchronously by nature while FullCalendar works synchronously by nature). We know it is possible to accomplish this task with the research we have done, but the process is more complex in general.

However, once we have a breakthrough and figure out how to display the information on the calendar, this User Story will be completed, as the rest of the functionality has been implemented.

**Planned Hours :** 12

**Actual Hours :** 14 (so far)

**Coder(s) :** Austin Newkirk, Austin Mongold

**Tester(s) :** Austin Newkirk, Austin Mongold

**Status :** Near completion

## E-mail functionality

*Completed By Austin Newkirk*

**User Story :** As users, we want to be able to send the correct emails/forms to the correct people either automatically or with the push of a single button.

**Description :** Using the information from firebase, email the correct forms to performers about performances (or any other situation Mr. Moody might want to send an email regarding his company) automatically, or with a push of a button.

**Task :** Using an official MusicMatters email address and using the data from firebase, send an email to all of the performers that month with the proper forms they need to fill out. The email should likely need to be reliable.

The calendar display and the email functionality is ultimately what Mr. Moody needs, so these two User Stories will be the biggest focus during development.

This functionality cannot be developed until the calendar information is displayed correctly, meaning that this has not started development. With that said, with the email functionality on the iOS app being functional, we can use what we've developed to speed up this User Story.

**Planned Hours :** 15

**Actual Hours :** 0 (so far)

**Coder(s) :** N/A

**Tester(s) :** N/A

**Status :** Further researched, not started

## Firebase User Stories

*Updated By Austin Newkirk*

### Database Data Sync-ability

**User Story :** As users, we want to see a change made in the iOS app change data live on the Firebase database.

**Description :** When an artist or venue or any form of such data is changed, said data will be sent to the Firebase data and change the entry there.

**Task :** Connect or assure that the program connects the data run by the app is connected to the firebase database.

**Planned Hours :** 1

**Actual Hours :**

**Coder(s) :** N/A

**Tester(s) :** Chase Dumbacher and Sarah Pham

**Status :** Completed

## Database Security

**User Story :** As a user, we want the database to be “read and write” safe.

**Description :** The database data will only be readable and writable if the user has the specific roles required

**Task :** Change the rules in the firebase database to require specific roles for Read and write access

**Summary :** Specific user groups can be made to allow for admin level access for Actual editing of calendar events and creating documents vs just being able to View the calendar.

**Planned Hours : 5**

**Actual Hours : 1**

**Coder(s) :** Chase Dumbacher

**Tester(s) :** Chase Dumbacher, Sarah Pham, Mike Moody

**Status :** Early work in progress

## iOS App User Stories

*Updated By Austin Newkirk*

### Error Checking/Bug Fixing

**User Story :** As a user, we want the homepage bug to be fixed.

**Description :** After the second login, the program skips the homepage and goes straight to the list of venues, which should only be accessed via the “venues” button.

This bug could not be replicated on an iOS simulator, which was what we were using to test the live changes to the app. After messing around with the app stack and changing the initial views after the login, we were able to familiarize ourselves with the Appstore and upload new versions of the app. The original testflight given to us was built 2-3 months prior. It was discovered that the app stack and initial views were not the issue, but rather updating the dependencies and build files. A new testflight was created, and the bug was fixed and tested on an actual iOS device.

**Task :** Figure out why the homepage is being skipped.

**Planned Hours :** 5

**Actual Hours :** 1

**Coder(s) :** Chase Dumbacher and Sarah Pham

**Tester(s) :** Chase Dumbacher, Sarah Pham, and Mike Moody

**Status :** Complete

### Functional Football Scrapping Calendar

**User Story :** As a user, we want to be able to view when the Auburn football games occur on the calendar.

**Description :** The calendar should show all events of Auburn University's football games.

The previous team was not able to get the football games to appear on the calendar. They seemed to have scrapped ESPN's website on Auburn University's football games by using a certain library and implementing it within the code. This function uses the Google Firebase cloud functions that we recently were able to get working. Now we just need to deploy this function alongside the emailer.

**Task :** Implemented the football games API within the calendar.

**Planned Hours : 4**

**Actual Hours : 4**

**Coder(s) :** Chase Dumbacher and Sarah Pham

**Tester(s) :** Chase Dumbacher, Sarah Pham, and Mike Moody

**Status :** Completed

## Functional Email System

**User Story :** As a user, we want to be able to choose client emails sent to the Music Matters Bookings email when a venue has been booked.

**Description :** The program should be able to automatically send an email to the Music Matters Bookings email with no issues.

This function uses Google Firebase cloud functions in order to call functions in a Firebase app. We initially ran into the issue of our Firebase billing account, we had to get Mike to re-verify the account (which took approx. a day for Google to approve of). Then we ran into the issue of some node modules or dependencies that were missing. After resolving that issue it was discovered that our deprecated Node version was impacting the deployment of our cloud functions. After updating Node and upgrading our Firebase account to the Blaze plan, we started running into issues with authentication (found by reading the Firebase logs within the project). We reauthorized Firebased on terminal, checked all client id's, secrets, and API keys. We also checked any hidden config accounts and made sure the username and passwords were the correct. We are still receiving an authenticated response when deploying these cloud functions.

**Task :** Fix theemailer function

**Planned Hours :** 40

**Actual Hours :** 40

**Coder(s) :** Chase Dumbacher and Sarah Pham

**Tester(s) :** Chase Dumbacher, Sarah Pham, and Mike Moody

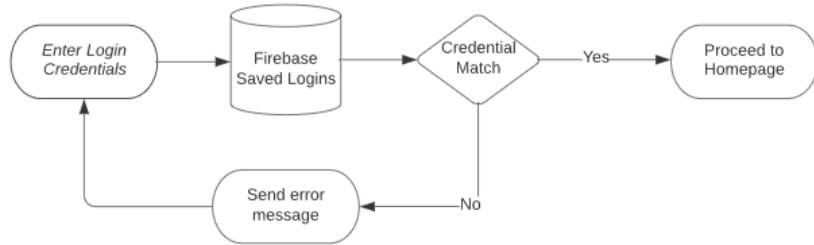
**Status :** Completed

# Design Documentation

## Activity Diagrams

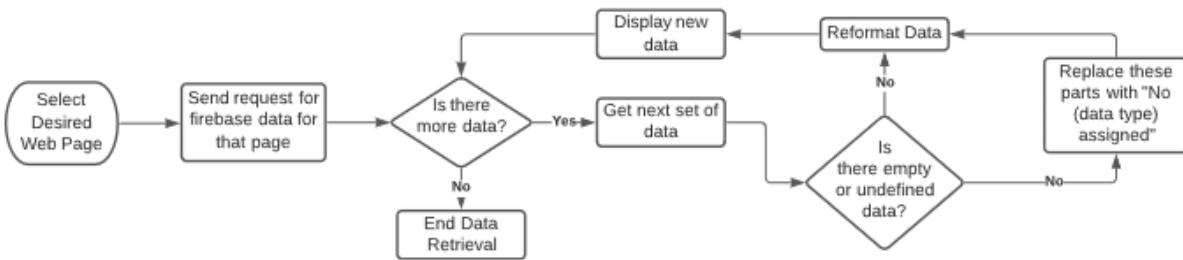
### Log-On

Completed By : Austin Mongold



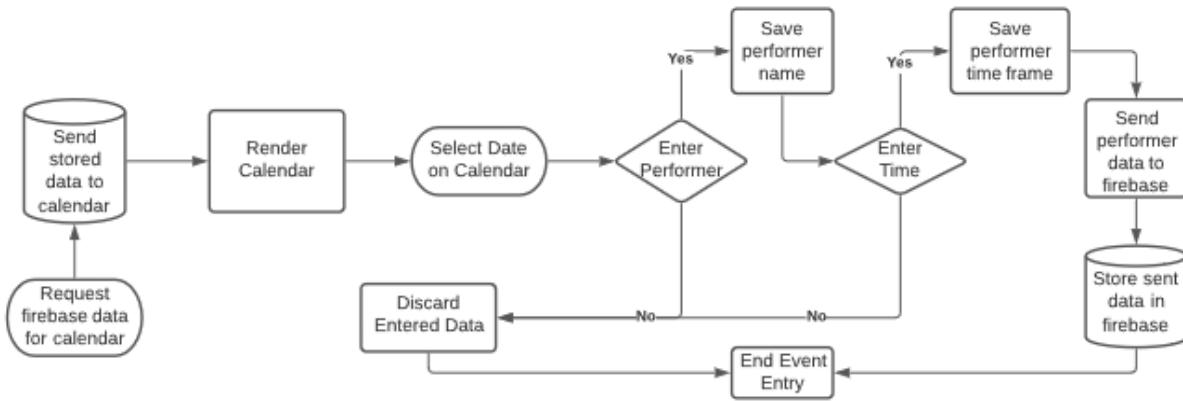
### Firebase Data Retrieval

Completed By : Austin Mongold



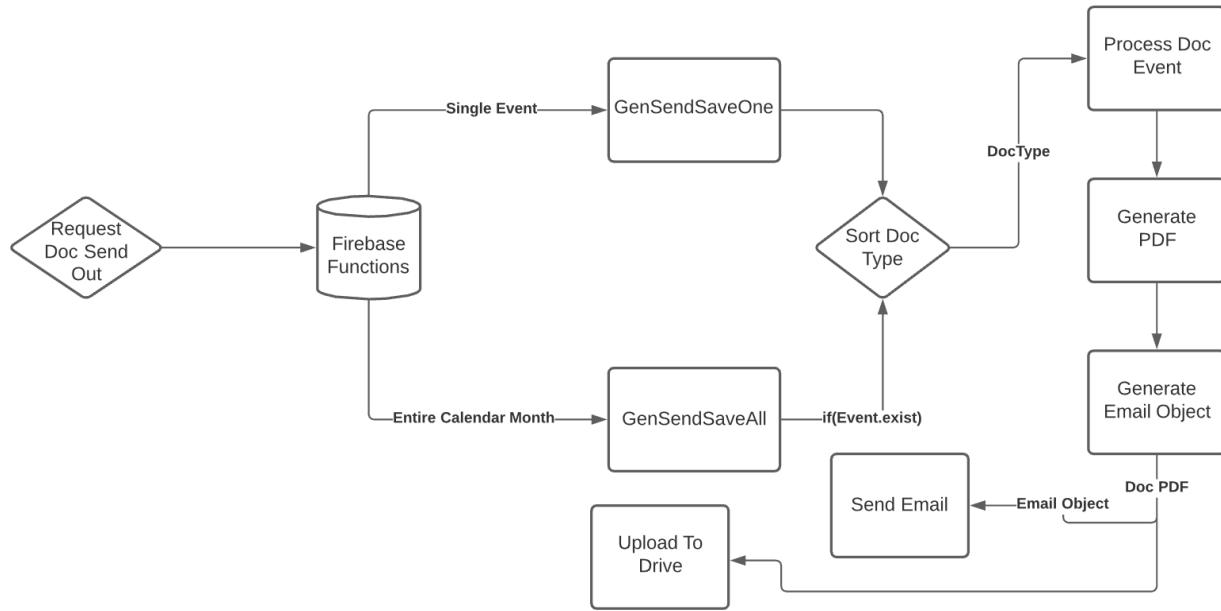
## Enter Event

Completed By : Austin Mongold



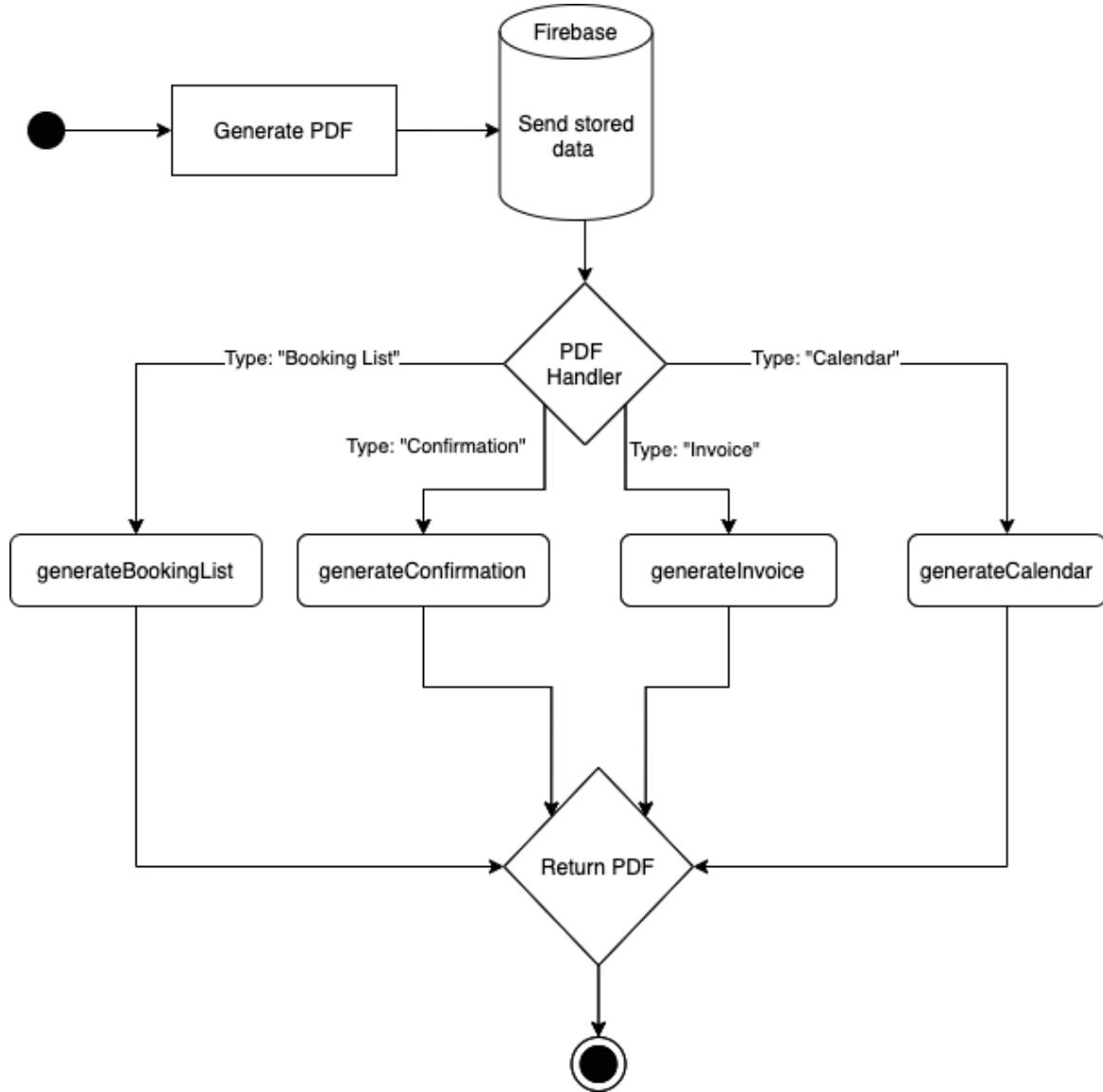
## GenSendSave Document

Completed By : Chase Dumbacher



## Generate PDF

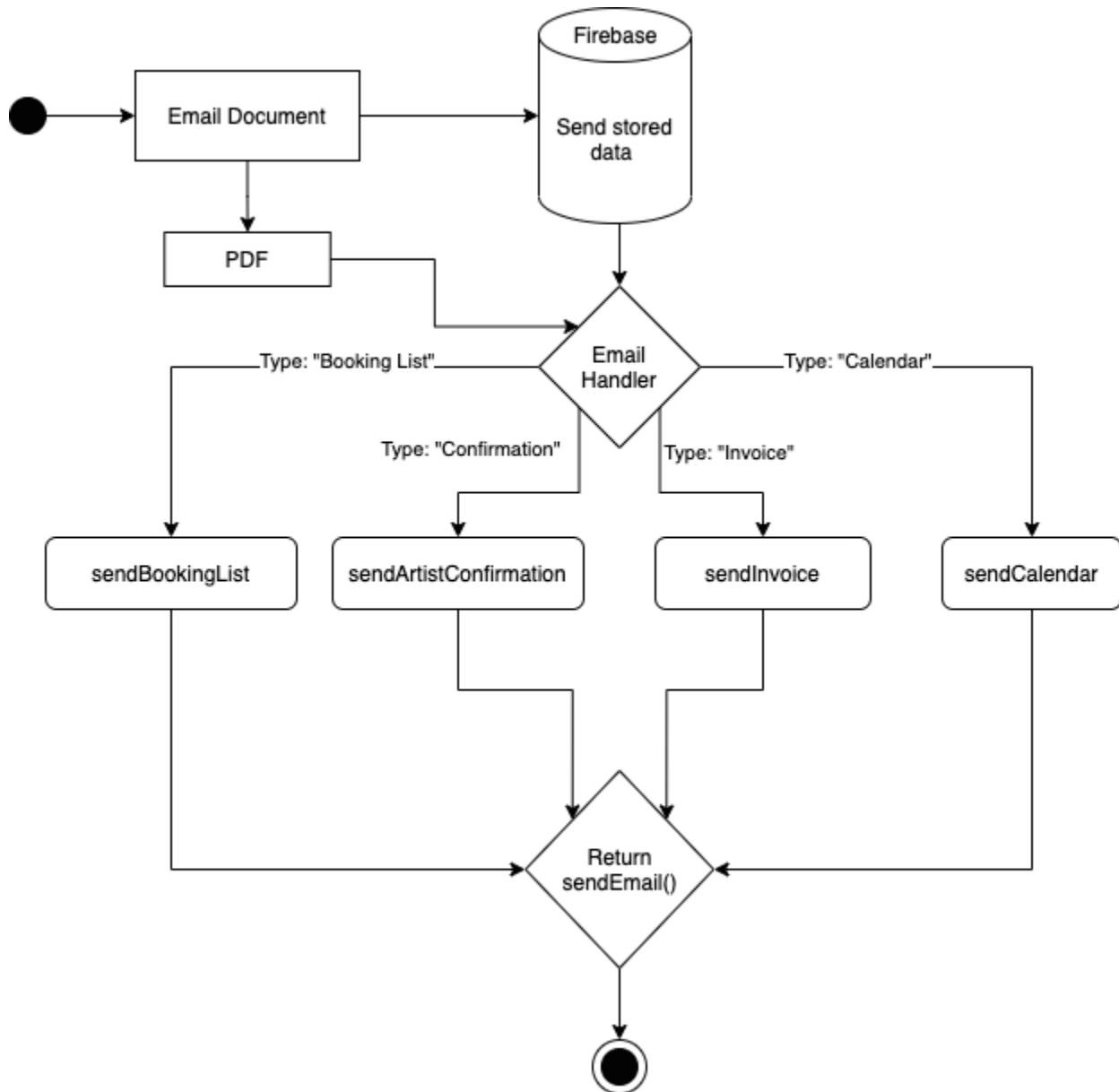
Completed By : Sarah Pham



The pdf is generated by pulling data from Firebases's Realtime database about any information regarding the venues, clients, and events. The pdf handler will generate different versions of the pdf in regards to the pdf “type”. Then a completed pdf is returned to be sent to the drive, to the venue email, to the client email, or to the booking list emails.

## Email Document

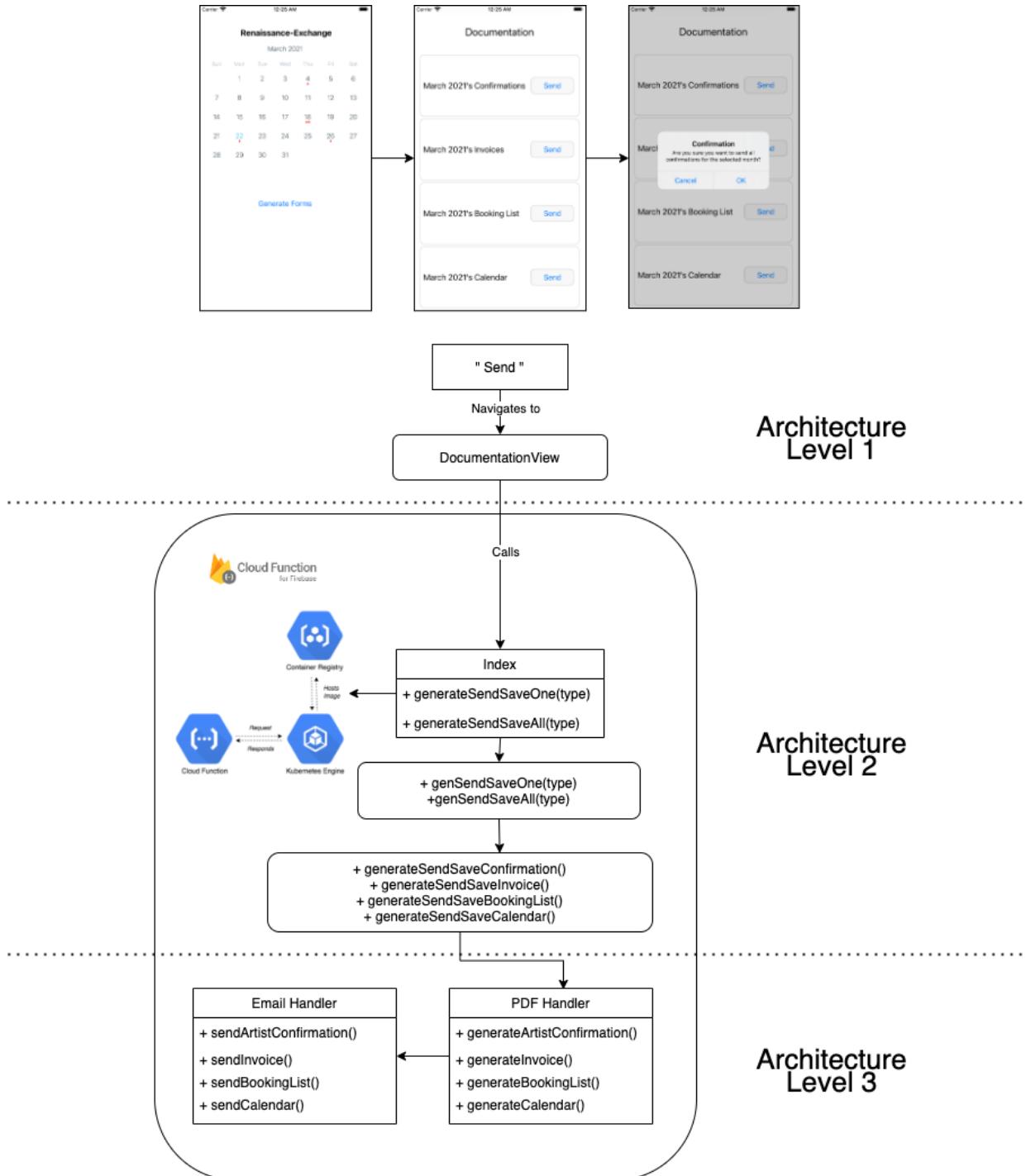
Completed By : Sarah Pham



The “Email Document” activity flow is set up quite similarly to “Generate PDF”. Data stored in Firebase’s Realtime Database is sent to this email handler, along with the generated PDF, and sent using nodemailer. Nodemailer uses the list of client emails that is pulled from the database to use as recipients, and sends the pdfs to those recipients.

## Layered Testing Diagram

Completed By: Sarah Pham



The layered testing diagram above represents the different layers of architecture in regards to the “Generate Forms” feature. The user-interface is shown above of where this feature is located in the app. We have split the architecture layers into three parts. The first layer is where the documentation view handles the binding of the user-interface button and the code. The second and third layer is where the firebase cloud functions are used. Firebase will containerize any code that is used within the firebase cloud functions, so level 2 and 3 are all containerized. This means that the code will be saved in the cloud and any changes made, the functions would have to be redeployed to the cloud. Level 3 is deepest in the architecture because they are handlers that assist those generation functions and are the last functions to be called.

Through this type of layered architecture, we are able to test certain aspects of the emailing functionality using cloud function logs at each architecture level.

The screenshot shows two views of the Firebase Functions dashboard for a project named "Music Matters".

**Top View (Functions Overview):**

- Header:** Music Matters, Go to docs, Notifications icon.
- Section:** Functions
- Navigation:** Dashboard, Health, Logs, Usage.
- Callout:** Prototype and test end-to-end with the Local Emulator Suite, now with Firebase Authentication, Get started.
- Table:** A list of five Cloud Functions with the following details:

| Function            | Trigger  | Region      | Runtime         | Memory | Timeout |
|---------------------|--|-------------|-----------------|--------|---------|
| docSendOut          | every day 08:00  | us-central1 | Node.js 14 Beta | 256 MB | 60s     |
| footballGameRefresh | every monday 08:00   | us-central1 | Node.js 14 Beta | 256 MB | 60s     |
| generateSendSaveAll | HTTP Request https://us-central1-music-matters-229420.cloudfunctions.net/generateSendSaveAll | us-central1 | Node.js 14 Beta | 256 MB | 60s     |
| generateSendSaveOne | HTTP Request https://us-central1-music-matters-229420.cloudfunctions.net/generateSendSaveOne | us-central1 | Node.js 14 Beta | 256 MB | 60s     |
| sarahTest           | HTTP Request https://us-central1-music-matters-229420.cloudfunctions.net/sarahTest           | us-central1 | Node.js 14 Beta | 256 MB | 60s     |

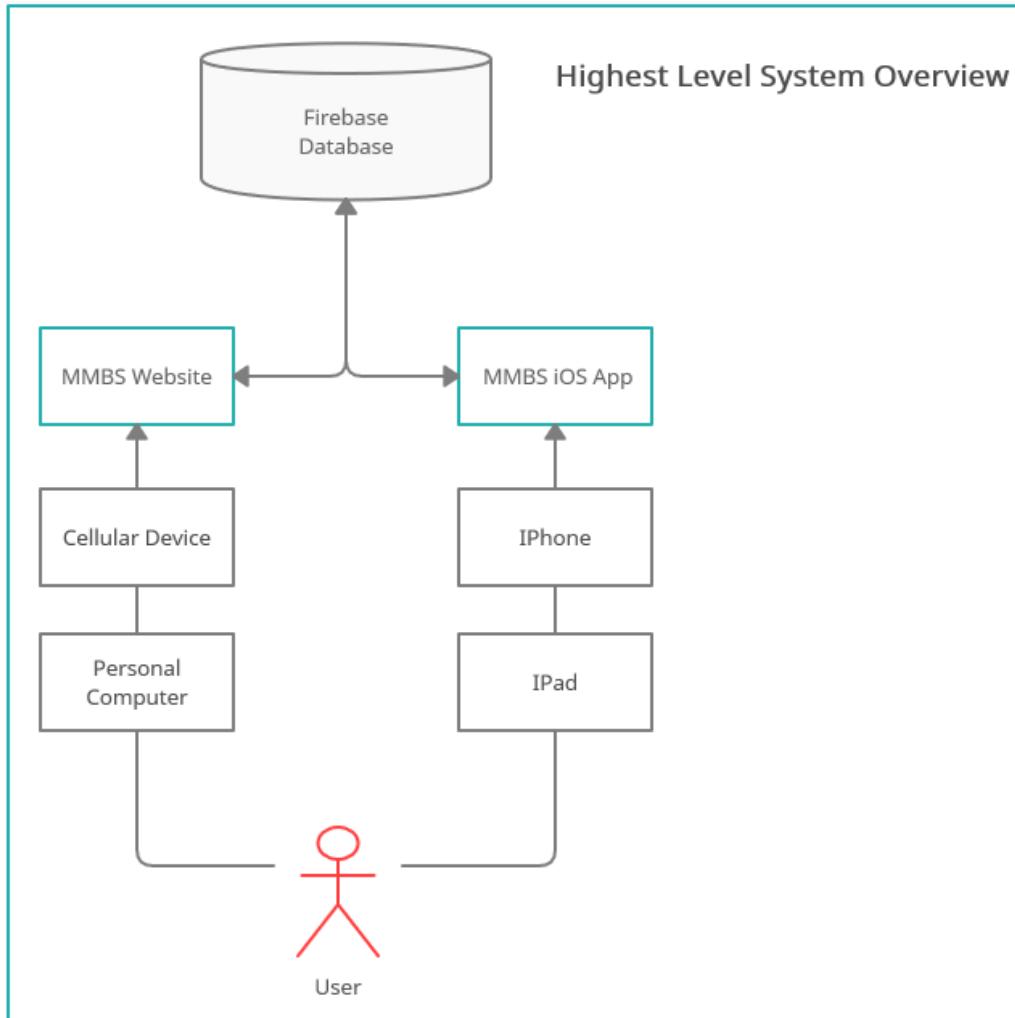
**Bottom View (Logs Detail):**

- Header:** Functions, Dashboard, Health, Logs, Usage.
- Section:** Logs
- Search:** Search logs, All selected, All log levels, Filter icon.
- Log Table:** A table of log entries for the "footballGameRefresh" function.

| Time           | Level | Message   |
|----------------|-------|---|
| 8:00:06.096 AM | INFO  | footballGameRefresh   |
| 8:00:06.096 AM | INFO  | + Error: No recipients defined at SMTPConnection._formatError (/workspace/node_modules/nodemailer/lib/smtp-connection/index.js:781:19) at SMTPConnection._... |
| 8:00:06.096 AM | INFO  | footballGameRefresh   |
| 8:00:06.096 AM | INFO  | + code: 'ENVELOPE',   |
| 8:00:06.096 AM | INFO  | footballGameRefresh   |
| 8:00:06.096 AM | INFO  | + command: 'API'  |
| 8:00:06.096 AM | INFO  | footballGameRefresh   |
| 8:00:06.096 AM | INFO  | + }   |
| 8:00:06.486 AM | INFO  | footballGameRefresh   |
| 8:00:06.486 AM | INFO  | + Function execution took 3627 ms, finished with status: 'ok'   |
| 8:00:08.447 AM | INFO  | docSendOut  |
| 8:00:08.447 AM | INFO  | + Error: No recipients defined at SMTPConnection._formatError (/workspace/node_modules/nodemailer/lib/smtp-connection/index.js:781:19) at SMTPConnection._... |
| 8:00:08.447 AM | INFO  | docSendOut  |
| 8:00:08.447 AM | INFO  | + code: 'ENVELOPE',   |
| 8:00:08.447 AM | INFO  | docSendOut  |
| 8:00:08.447 AM | INFO  | + command: 'API'  |
| 8:00:08.447 AM | INFO  | docSendOut  |
| 8:00:08.447 AM | INFO  | + }   |

## High Level Architecture

*Completed By Chase Dumbacher*

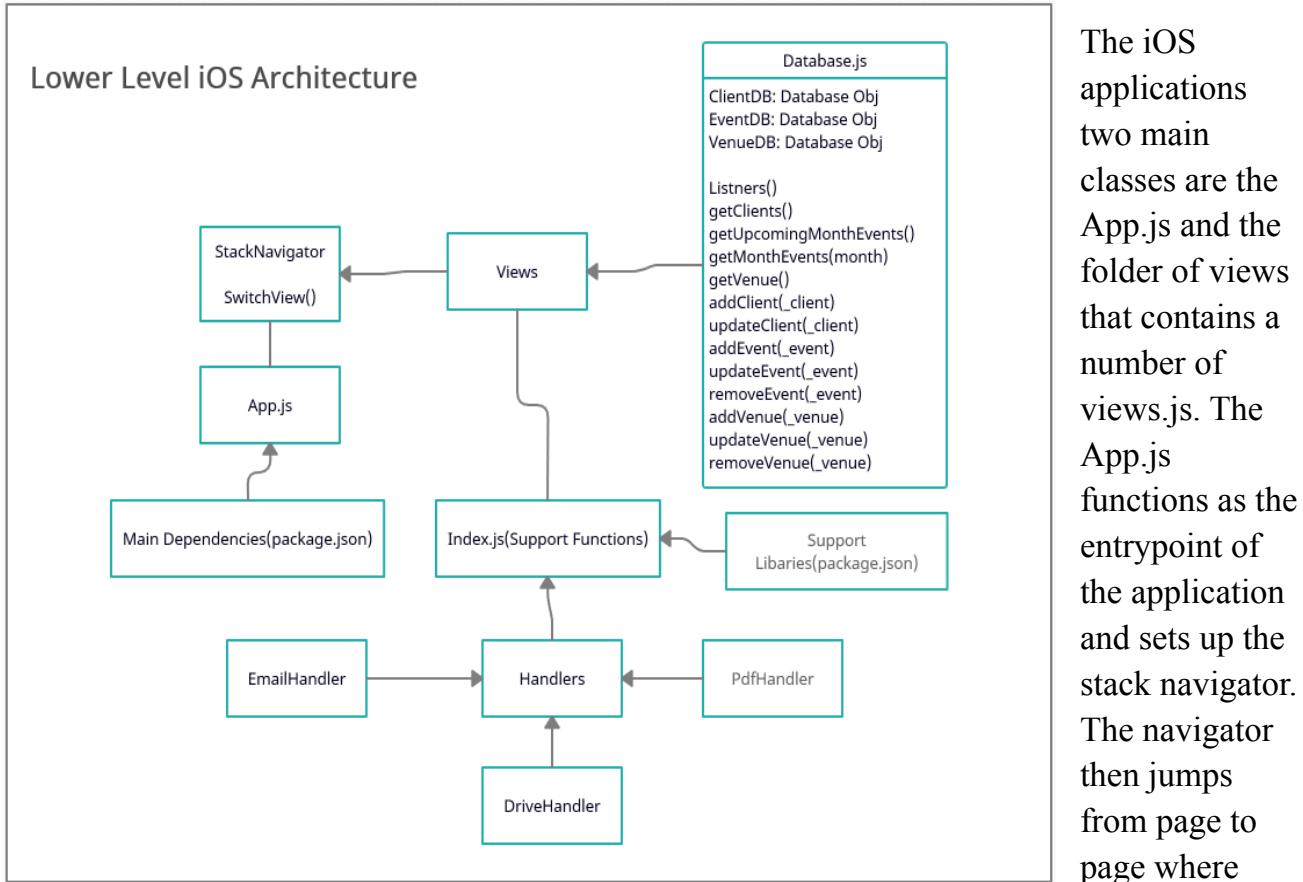


This figure describes the high level system interactions. A user is able to either use any device that can pull up a webpage to connect to the website or they can use an iOS device to pull up the iOS app. The respective application then communicates with the firebase database to pull needed data and record any changes to the data. These changes then

trigger a change in the database which triggers both applications to pull the new changes from the database.

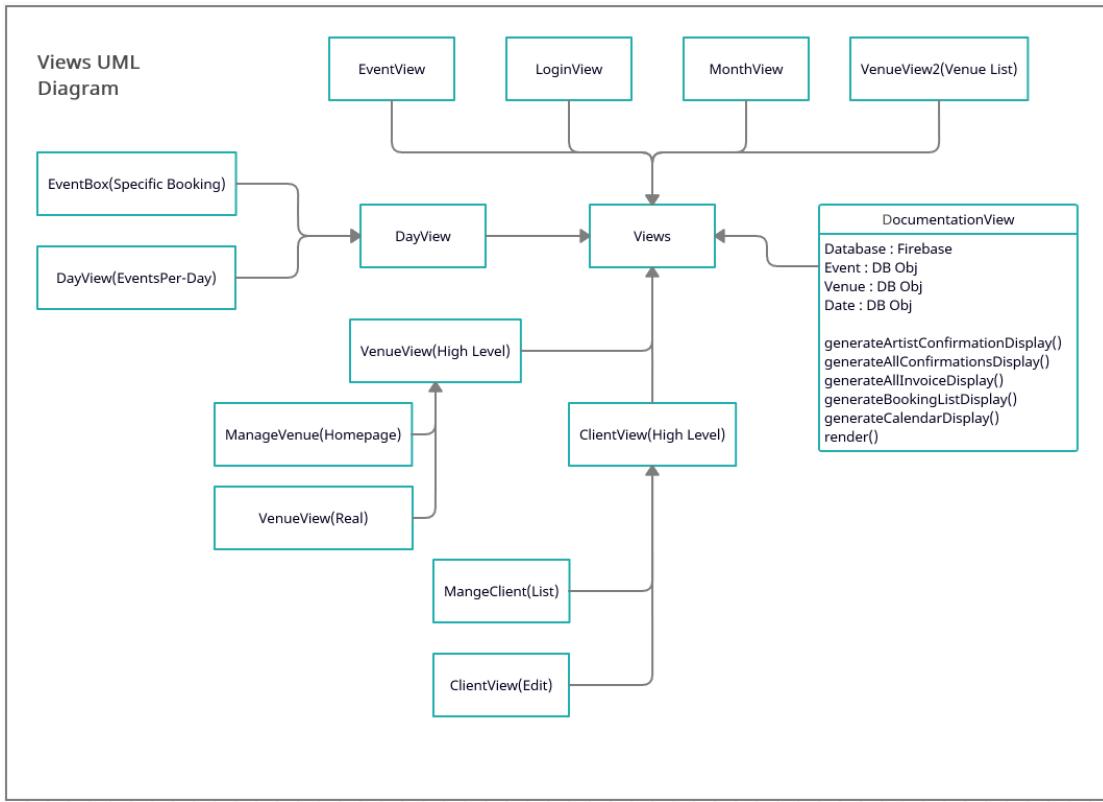
## iOS App Low Level Architecture

*Completed By Chase Dumbacher*



The iOS applications two main classes are the App.js and the folder of views that contains a number of views.js. The App.js functions as the entrypoint of the application and sets up the stack navigator. The navigator then jumps from page to page where each page is a

specific view. Different functionalities of each page are accomplished through the support class of functions organized in the index.js file.

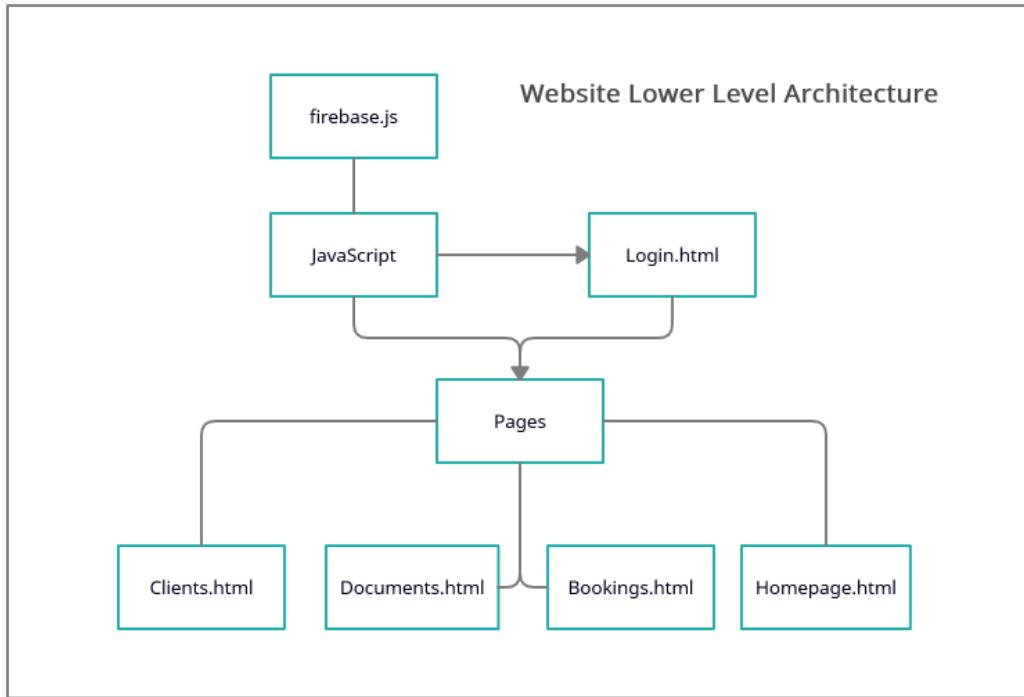


This diagram visualizes the specific files and structures that makeup the various views of the iOS app. Each page falls under a specific view class. Some files have multiple view classes in a single file. Most do not contain

functions outside the standard `render()`, however some such as **DocumentationView** have specific functions coded into it that allow the correct type of **DocumentationView** page to be displayed.

## Website Low Level Architecture

*Completed By Chase Dumbacher*



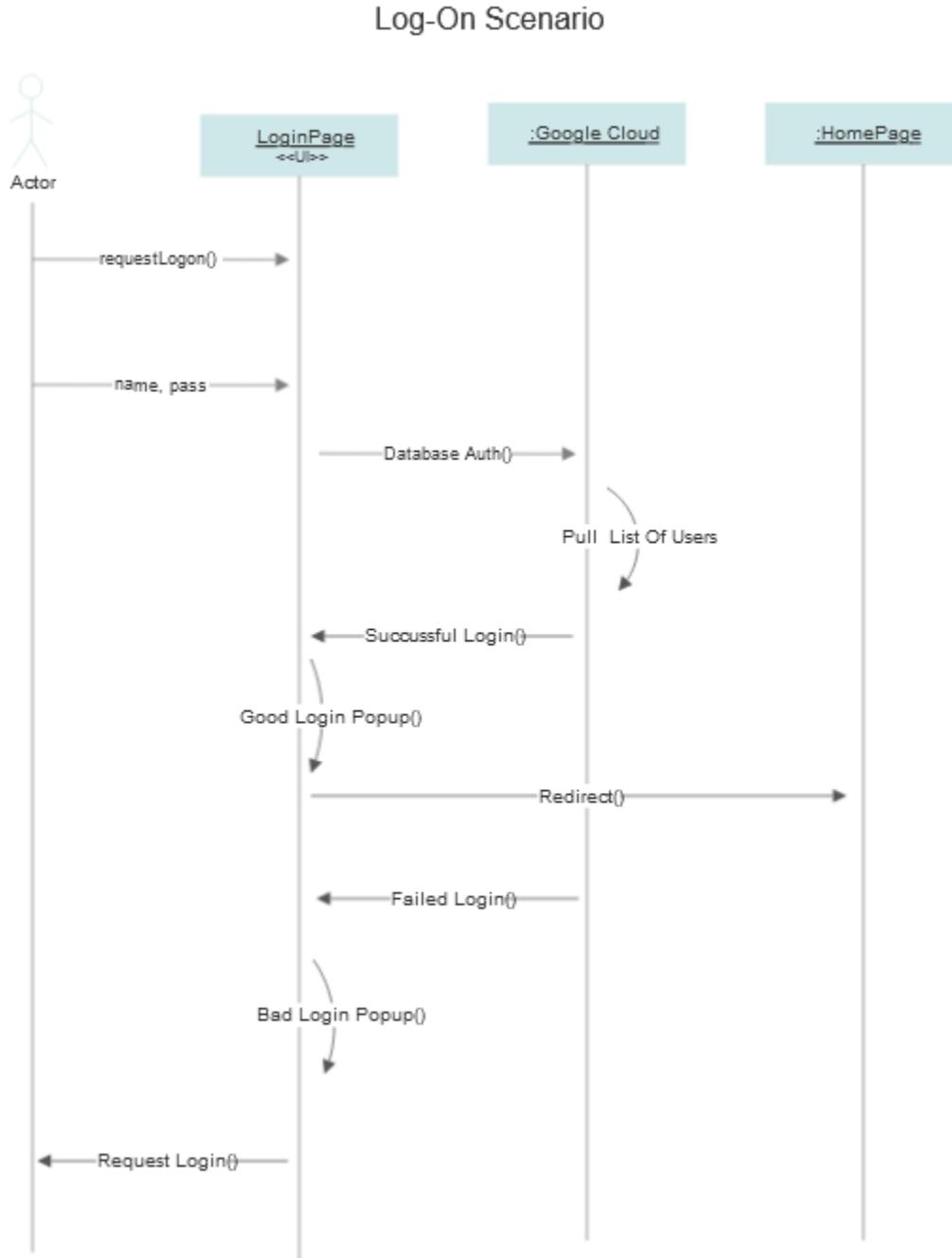
The Website uses the Login.html as the root page. This page uses functionality from the firebase.js to handle the user auth as well as database calls. All other pages currently also use this to reference database data

such as venues and clients. Future javascript files will be made and be used to accomplish functionalities such as the document generator and the email sender.

## Website System Sequence Diagrams

*Completed By Chase Dumbacher*

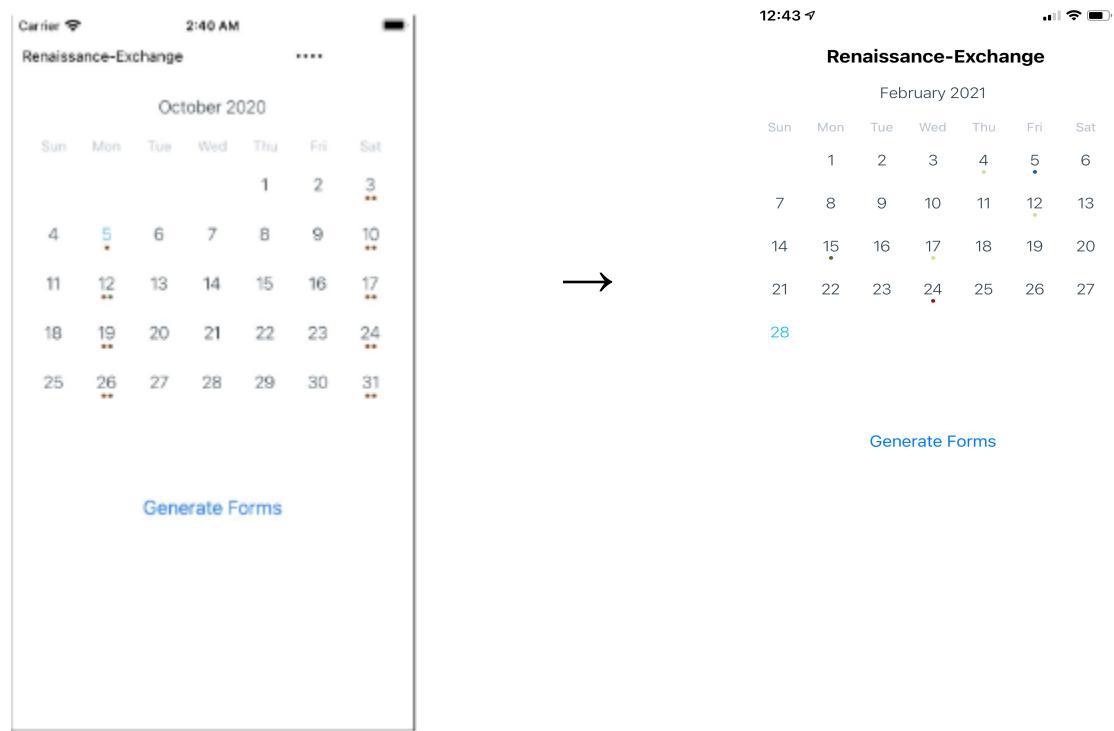
### Log-on (iOS) Scenario



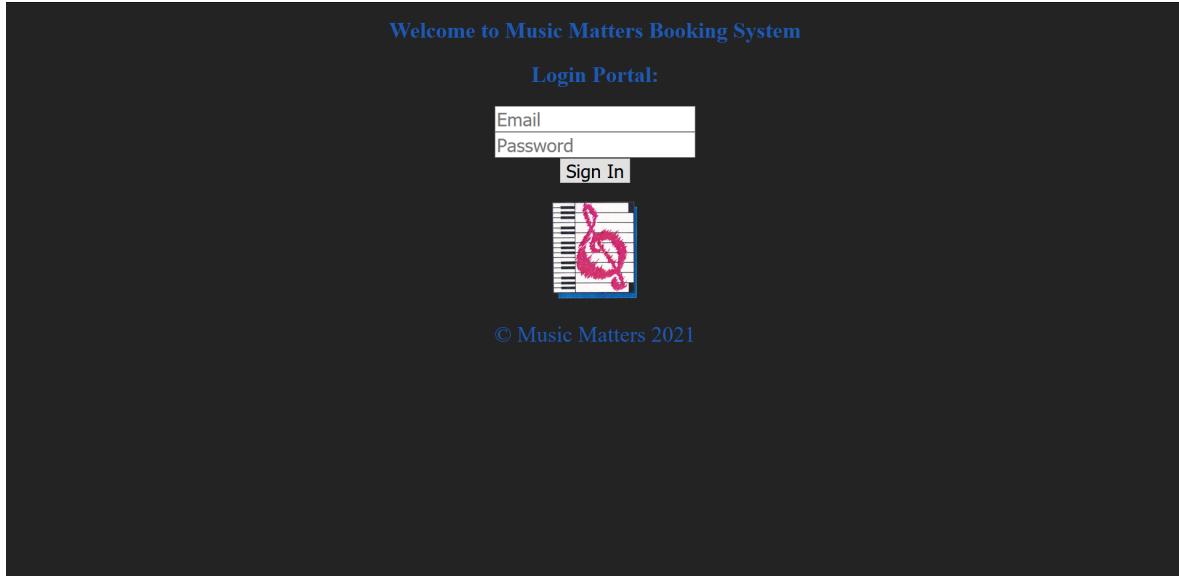
## Interface And UX Design

*Completed By Chase Dumbacher*

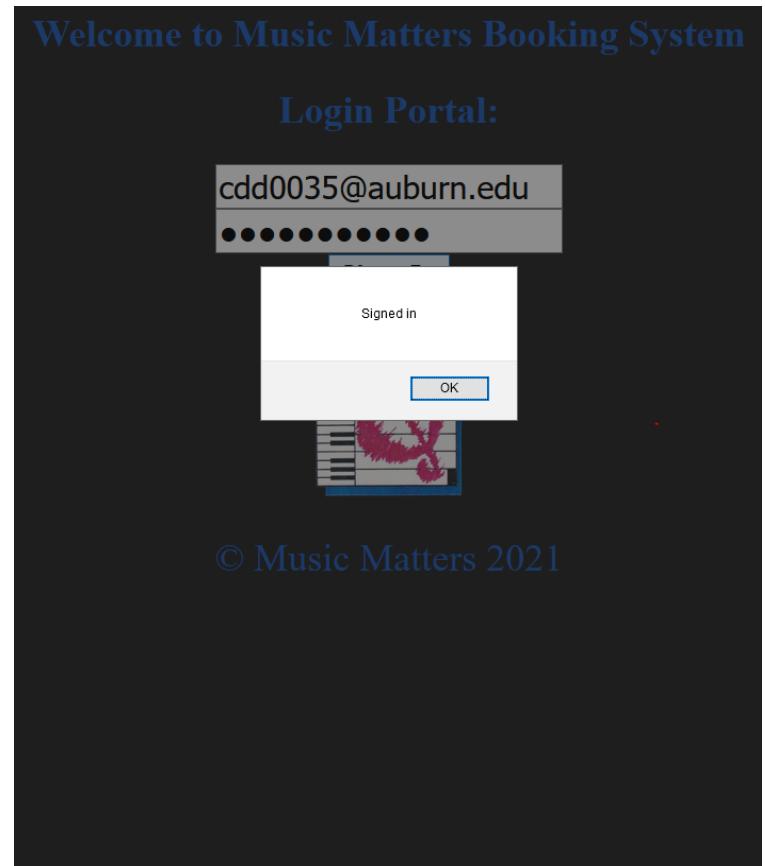
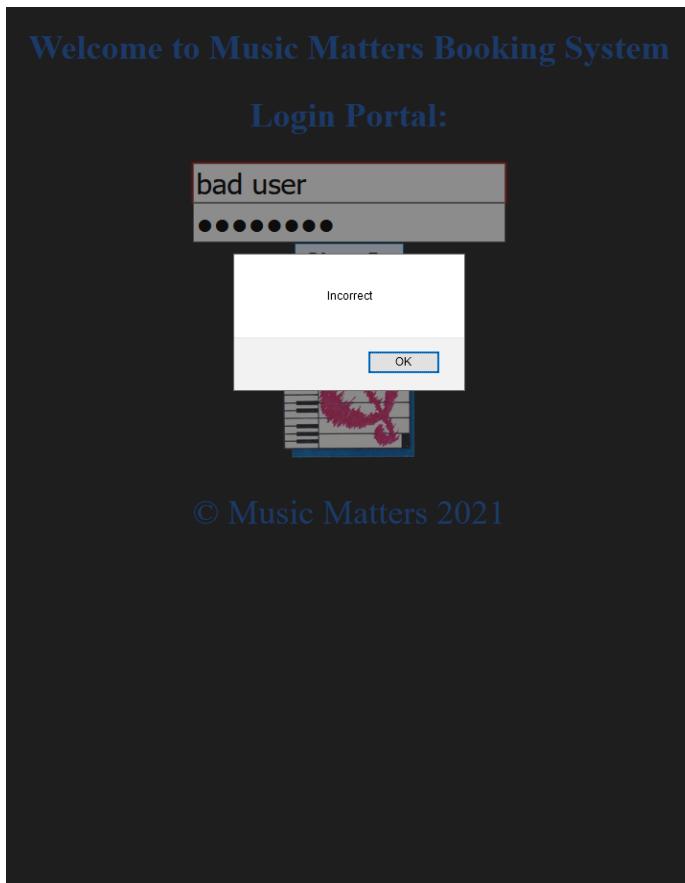
The majority of the iOS app has already been designed and approved by Mike. We have been adjusting minor details such as center text and making certain titles larger, for this reason the majority of the focus is on the website design. The focus of the website user interface design is to assure that all text has good contrast with the background so to allow easy readability and to design the calendar in such a way that all information is readily viewable and large enough for easy viewing. We are also developing the website with simplicity in mind. Currently the design has a bar on the left hand side that has a client, venue, documentation, and bookings. The main space of the website will constantly show the calendar and will change according to changes to the venue.



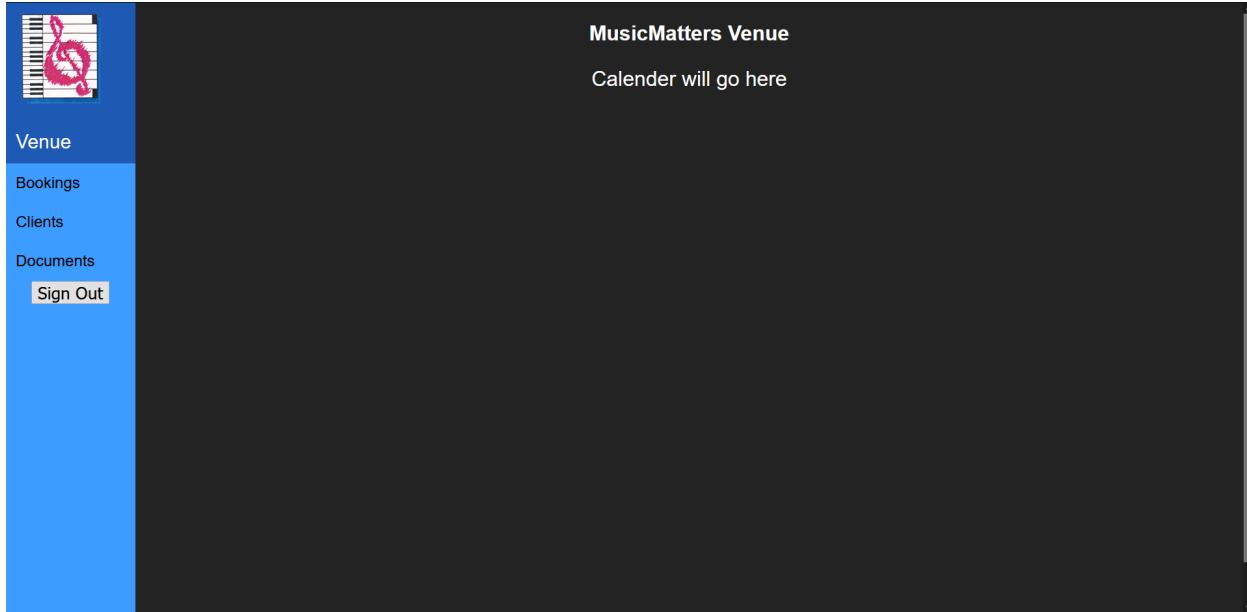
This image above shows one of the few UI changes that was made to the iOS app. The venue title was changed from left alignment to centered and the font was bolded and increased. We also took away the hamburger button shown in the top right due to the fact that its purpose was to go back to the last page, but this is already possible by swiping left to right.



This is the first page that users will interact with when trying to use the website version of the system. From here the user will log in and then be notified of successful or unsuccessful login.



After a successful login the user is met with the homepage that is used to pull up different venue calendars and select whether or not they wish to send out booking documents.

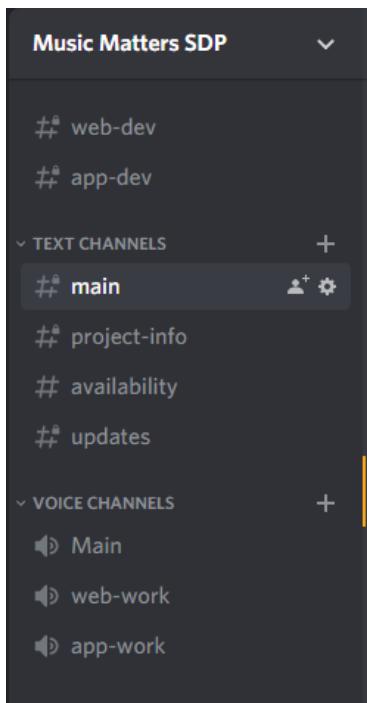


The bars on the left are all currently selectable and will display a different page, however the contents of the page, in particular the calendar, is still being worked on at this current moment.

# Management Plan

## Task Assignments

*Completed By Chase Dumbacher*



Tasks for the project have been primarily split between two smaller groups, the web team and the iOS app team. Chase and Sarah have been responsible for the iOS app and the Austins, Newkirk and Mongold, have been made responsible for development of the website. This split was made to help make it easier to give specific tasks to each group member and help create a more fair and balanced workload. Communication has been set up through discord because this is a common communication platform that all of the group members are familiar with. Discord allows us to have ping-able roles to notify specific teams or the entire team of important announcements or updates. Discord also has allowed us to create both text and voice channels that we can use to have chat meetings, voice meetings, as well as record progress and update teams of progress made daily.



For ease of use we have also used zoom to facilitate our weekly meetings with Mike since this is easier and preferable to him. Specific delegation of tasks is discussed in the meetings and text channels of Discord, however we have also made use of a task organization system/website called Monday.com. This site allows us to create tasks, separate tasks by cycles, set deadlines and priority for tasks, as well as create gantt charts based on these tasks and timelines.

To handle version control as well as file sharing we have set up a github for the project. Because the code is written entirely in javascript (node.js/react native) each member has been free to use any text editor of their choice. We have mostly used Visual Studio and Visual Studio Code.



This table shows all the planned tasks setup for cycle 2 as well as the deadlines and progress we made on these tasks. Currently the website side has suffered delays on working on the calendar and having the firebase data properly displayed on the calendar. These delays are due to both running into unforeseen problems as well as not being fully aware of the length of cycle 2 compared to the other cycles. We have come up with the idea of trying to use the containerized firebase functions that the iOS app builds and uses on the website since the firebase calls should be usable by both website and iOS app. This is the current plan and if successful may allow the time lost this cycle to be made up. However this task will still likely not start until the end of cycle 2 and will be worked on throughout cycle 3.

| Cycle 2 |   | Task owner ⓘ | Status | Task Timeline ⓘ | Priority      | Dependent on ⓘ | Trello Card | + |
|---------|---|--------------|--------|-----------------|---------------|----------------|-------------|---|
|         | Confirm Football game scrapper functionalities        | ✉️           | 👤      | Working on it   | Mar 3 - 19    | Medium         | -           |   |
|         | Adjust iOS app design per sponsor feedback            | ✉️           | 👤      | Working on it   | Mar 3 - 22    | Low            | -           |   |
|         | Allow Mike to user test the iOS app and make bugfixes | ✉️           | 👤      | Done            | ✓ Mar 3 - 22  | High           | -           |   |
|         | Test for edges cases on iOS app                       | ✉️           | 👤      | Working on it   | Mar 13 - 22   | Low            | -           |   |
|         | Setup stricter user groups and security for firebase  | ✉️           | 👤      |                 | Mar 13 - 22   | Medium         | -           |   |
|         | Test for data transfer reliability                    | ✉️           | 👤      | Done            | ✓ Mar 13 - 23 | Low            | -           |   |
|         | Setup website document generation                     | ✉️           | 👤      | At risk         | ! Mar 3 - 14  | High           | -           |   |
|         | Setup websiter emailer of documents                   | ✉️           | 👤      | At risk         | Mar 12 - 19   | High           | -           |   |
|         | Setup list of clients/artist page with firebase data  | ✉️           | 👤      | At risk         | Mar 12 - 19   | Medium         | -           |   |
|         | Setup calendar events to use firebase data            | ✉️           | 👤      | Working on it   | Mar 18 - 22   | Medium         | -           |   |
|         | Cycle 2 Report  | ✉️           | 👤      | Working on it   | Mar 3 - 22    | Medium         | -           |   |

These tables show the planned tasks for the upcoming cycles and the planned deadlines for them. With the delays from cycle 2 this chart will be revised to include the cycle 2 tasks that were not completed.



## Development Schedule

*Completed By Chase Dumbacher*

A detailed and more intractable preview of our development schedule gantt charts can be viewable [here](#). Below includes screenshots of Cycle 1 - Cycle 3 of our planned gantt chart schedule.



| Cycle 3  |                 | Cycle 3 • Mar 24 - Apr 21 • 29 days                    |
|--|-----------------|--|
| Make final design adjustments to iOS app               | Mar 24 - Apr 16 | Make final design adjustments to iOS app               |
| Setup changeable venues list for website               | Mar 24 - Apr 2  | Setup changeable venues list for website               |
| Confirm maintainability and transfer of code           | Mar 29 - Apr 16 | Confirm maintainability and transfer of code           |
| Setup Football events for website calendar             | Apr 2 - 9       | Setup Football events for website calendar             |
| Setup User Manual                                      | Apr 5 - 9       | Setup User Manual                                      |
| Review code and document needed sections               | Apr 5 - 16      | Review code and document needed sections               |
| Test iOS app and website data synchronicity            | Apr 5 - 16      | Test iOS app and website data synchronicity            |
| Test website and iOS app full calendar month of events | Apr 12 - 16     | Test website and iOS app full calendar month of events |
| Wipe any unneeded user access                          | Apr 15 - 16     | Wipe any unneeded user access                          |
| Confirm end-end full calendar month testing            | Apr 17 - 21     | Confirm end-end full calendar month testing            |

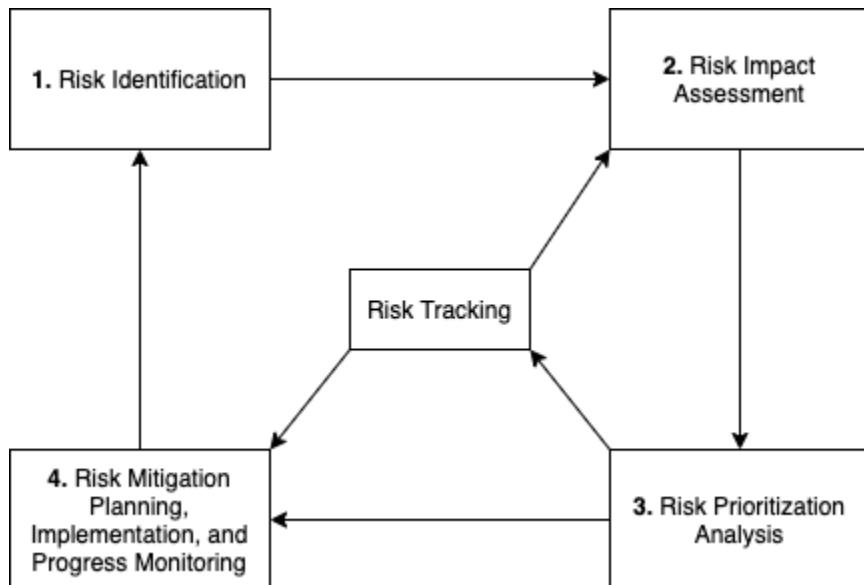
## Planned Code / Feature Freeze

*Completed By Chase Dumbacher*

The planned code freeze date is set for 3/24/21. This will give the team a day to confirm needed functionality for our demo and avoid causing any last minute errors that could affect the presentation and demo. All code is committed and pushed to Git so one day of review and code freeze should suffice since any major errors can be reverted to previous Git versions.

## Risk Mitigation

*Completed By Sarah Pham*



Previously we covered risk mitigation, which is a process within Software Development that involves tracking any known risks, identifying any possible risks, and evaluating this process throughout the development.

| Known Risks on App                          | New Risks on App  |
|---|---|
| Node.js was deprecated and was on version 8 | Unknown/confusing solutions in terms of editing a venue |
| Undocumented code                           |   |
| Repetitive code                             |   |
| Bugs within the app                         |   |

| Known Risks on Website  | New Risks on Website |
|---|----------------------|
| Connecting to the same Firebase as the app and therefore the app may not update | None                 |
| Website speed is dependent of user's internet speed                             |                      |
| Website speed is dependent of user's internet speed                             |                      |
| Setting to a domain name, currently is using a local host                       |                      |

| Known Risks on Firebase                    | New Risks on Firebase |
|--|-----------------------|
| Billing account was unverified             | None                  |
| Account was on the free Spark plan         |                       |
| There was found to be two billing accounts |                       |
| There was found to be two projects         |                       |
| Easy access with authentication            |                       |

Our risk mitigation plan consisted of tracking the known risks and analyzing the significance of their impact to the project. We then prioritized each risk, found solutions and implemented accordingly. An example would be a known risk within the app where Node was on a deprecated version (8). This risk was monitored throughout the software development process and was evaluated to be a low priority during the first stages of cycle one. However, after many bug fixes, we discovered that the latest version of Node was required in order to run Google Firebase cloud functions. We needed that functionality in order to have a proper emailer system. Therefore, the risk was reevaluated to be the highest priority due to its impact towards the development process. A solution was found to update Node to version 14 and we were able to continue working on the emailer. Lastly, our mitigation plan involved evaluating the effectiveness of the risk process. The team came to the conclusion that the risk process was indeed very effective in terms of preventing and managing risks. Moreover, the process has been implemented into our development cycle.

## Test Plan and Test Procedures

*Completed By Austin Newkirk*

On the website, testing has been simple yet effective. So far we have been testing our website by simply running through all the webpages and interacting with each new functionality as we develop. As an example, with the implementation of FullCalendar, we tested lots of functionality the calendar offers through different scenarios, and tested dummy data entries (not through firebase, but would be integrated similarly to how firebase data is pulled.) We plan on continuing this kind of testing, but also plan on adding new testing procedures as the website is built.

Some procedures we plan on adding are unit tests for all various data entries, including football games, dummy holidays/breaks, dummy performances, etc. Lastly, we want to add Mr. Moody himself as a tester, as we are ultimately building the website for him. We feel that his potential input/feedback in the testing phases will greatly improve our development in the future.

For the iOS app, we have a similar approach for testing. Our testing consists of running through numerous test runs in search for bugs, optimizations, and potential positive changes. Mr. Moody does have access to the iOS application because it is further along in development, as has been a great help along this process. As an example, we (along with teams in the past) noticed a home screen bug where after a second login, the homescreen landing page would not appear; rather the venues page would be the landing page. Because of our observations, we found the bug and patched it out in a later build.

Unit test procedures/implementation for the iOS app has been considered, though little has been currently done at the time of this document publication.

## Website Test Cases

*Completed By Austin Newkirk*

|                    |               |
|--------------------|---------------|
| Related User Story | Website Dummy |
|--------------------|---------------|

|                   |  |
|-------------------|--|
| Test Name         | Website_Dummy_Test   |
| Description       | Assure that the website is can open and is navigable   |
| Related Functions | Login.html, firebase.js, signIn(),<br>firebase.auth().onAuthStateChanged,<br>function signOut()  |
| Test Steps        | <ol style="list-style-type: none"> <li>1. Load up the website (locally)</li> <li>2. Sign in with correct login credentials to see if functionality works             <ol style="list-style-type: none"> <li>a. Also attempt to sign in with incorrect login credentials - works as intended</li> </ol> </li> <li>3. Click “Sign In” to see if functionality works</li> <li>4. Navigate through all pages to see if all pages display</li> <li>5. Click “Sign Out” to see if functionality works</li> </ol> |

|                    |  |
|--------------------|--|
| Related User Story | Cross-Platform-Integration   |
| Test Name          | Cross_Platform_Information_display   |
| Description        | Assure that changes in on the iOS app will be displayed on the website   |
| Related Functions  | Firebase.js,   |
| Test Steps         | <ol style="list-style-type: none"> <li>1. Open the app from an iOS device and login with default or known credentials.</li> <li>2. Click the ‘Client’ button.</li> <li>3. Select the cogwheel/wrench edit button for the entry on the list labeled “Test”</li> <li>4. Edit the ‘name’ field of the venue and set name to “Test-NameCheck”</li> <li>5. Now pull up the website</li> <li>6. Log in with known credentials</li> <li>7. Click the “Clients” tab</li> <li>8. Search to see if “Test-NameCheck” appears</li> </ol> |

|                    |                             |
|--------------------|-----------------------------|
| Related User Story | Ease Of View                |
| Test Name          | Ease_Of_View_Website_Test_1 |

|                   |  |
|-------------------|--|
| Description       | Check to see if all the useful information needed for Mr. Moody can be seen at a glance on the calendar. Checks to see if the calendar looks like the vortex42 calendar  |
| Related Functions | Calendar.html, Homepage.html,<br>document.addEventListener()   |
| Test Steps        | <ol style="list-style-type: none"> <li>1. Sign in to the website using correct login credentials</li> <li>2. Navigate to “Venue”</li> <li>3. Go to a date with a venue             <ol style="list-style-type: none"> <li>a. Check to see if the venue start time and name appear at a glance</li> </ol> </li> <li>4. Go to a date with a holiday             <ol style="list-style-type: none"> <li>a. Check to see if the holiday appears timeless on the correct day</li> </ol> </li> <li>5. Compare format of the calendar to vortex42 calendar</li> </ol> |

|                    |   |
|--------------------|---|
| Related User Story | Clean UI/Experience   |
| Test Name          | Clean_UI_Website_Test   |
| Description        | Check to see if the website looks nice, and loads fast  |
| Related Functions  | All .html programming   |
| Test Steps         | <ol style="list-style-type: none"> <li>1. Go to login screen</li> <li>2. Login using correct credentials</li> <li>3. Navigate all 4 pages within the website, taking notes of the speed and the looks</li> <li>4. Sign out</li> </ol> |

|                    |  |
|--------------------|--|
| Related User Story | Displaying Real Information                                  |
| Test Name          | Real_Info_Test_Web   |
| Description        | Have information from firebase show on the websites calendar |

|                   |   |
|-------------------|---|
| Related Functions | Calendar.html,<br>document.addEventListener('DOMContentLoaded',<br>function()   |
| Test Steps        | <ol style="list-style-type: none"> <li>1. Add a venue into firebase with a date, time, and name             <ol style="list-style-type: none"> <li>a. 3/22/21, 5:00 PM, test_name for this example</li> </ol> </li> <li>2. Log into the website using correct login credentials             <ol style="list-style-type: none"> <li>a. User: <a href="mailto:web@gmail.com">web@gmail.com</a></li> <li>b. Pass: webweb</li> </ol> </li> <li>3. Go to the “Venues” tab</li> <li>4. Locate the date in question</li> <li>5. Check to see if the venue is displaying</li> </ol> |

|                    |   |
|--------------------|---|
| Related User Story | Email Functionality (Web)   |
| Test Name          | Email_func_web_test_1   |
| Description        | <p>Confirm that the website is capable of using the MusicMattersBooking email through the use of an app pass as well as confirm the functionality of Artist Confirmation doc sendout.</p> <p>Because we haven't begun this User Story, this will be theoretical. However, it should resemble the testing for the iOS, so we will use that as a base.</p>  |
| Related Functions  | sendArtistconfirmation()  |
| Test Steps         | <p>PreReq :</p> <ol style="list-style-type: none"> <li>1. Have ‘user’ and ‘pass’ field of the gmail object set to an insecure gmail with no 2-factor and insecure 3rd party access enabled.</li> <li>2. Set sendArtistconfirmation()’s sendEmail parameters to a known email with a plain text string subject and text.</li> </ol> <p>PostReq:</p> <ol style="list-style-type: none"> <li>1. Open the website and login with default or known credentials.</li> <li>2. Click the ‘Venue’ button.</li> <li>3. Click the ‘Renaissance-Exchange’ venue.</li> </ol> |

|  |   |
|--|---|
|  | <ol style="list-style-type: none"><li>4. Click on a event on the calendar</li><li>5. Click ‘Generate Forms’</li><li>6. Click ‘Artist Confirmation’</li><li>7. Check email used in the ‘to’ parameter of sendArtistConfirmation.</li><li>8. Verify the email was properly received</li></ol> |
|--|---|

## iOS Test Cases

*Completed By Chase Dumbacher*

|                    |   |
|--------------------|---|
| Related User Story | Error Checking/Bug Fixing   |
| Test Name          | Navigate_To_Event_Pages   |
| Description        | Check to assure that all event related pages can be navigated and returned from.  |
| Related Functions  | AppStack, Navigation(), Views   |
| Test Steps         | <ol style="list-style-type: none"> <li>1. Open the app from an iOS device and login with default or known credentials</li> <li>2. Click on ‘Venue’ Button</li> <li>3. Click on ‘Renaissance Exchange’ Venue</li> <li>4. Click on a day with an event indicated by a yellow dot.</li> <li>5. Click on an event block indicated by a circle profile icon and a name and performance time.</li> <li>6. Confirm that the event information page is displayed.</li> <li>7. Swipe left and confirm events day page is displayed</li> <li>8. Swipe left again and confirm month calendar is displayed</li> <li>9. Swipe left again and confirm venues list is displayed</li> <li>10. Swipe left again and confirm homepage is displayed</li> </ol> |

|                    |  |
|--------------------|--|
| Related User Story | Error Checking/Bug Fixing  |
| Test Name          | Login_With_Known_Creds_Success   |
| Description        | Login to the iOS app with known creds  |
| Related Functions  | Firebase.auth().signInWithEmailAndPassword()   |
| Test Steps         | <ol style="list-style-type: none"> <li>1. Open app from an iOS device.</li> <li>2. Enter username = cdd0035@auburn.edu</li> <li>3. Enter password = @Auburneng5</li> <li>4. Confirm homepage is navigated to and displayed.</li> </ol> |

|                    |   |
|--------------------|---|
| Related User Story | Error Checking/Bug Fixing   |
| Test Name          | Navigate_Venue_Related_Pages  |
| Description        | Navigate to venue list page and venue edit page and confirm that each are navigated through expected route and returnable.  |
| Related Functions  | AppStack, Navigation(), Views   |
| Test Steps         | <ol style="list-style-type: none"> <li>1. Open the app from an iOS device and login with default or known credentials</li> <li>2. Click ‘Venue’ button from the homepage</li> <li>3. Click the cogwheel and wrench button on ‘Renaissance-Exchange’</li> <li>4. Confirm the correct venue edit page is displayed and venue information matches firebase data.</li> <li>5. Swipe left to confirm return to venue list</li> <li>6. Swipe left to confirm homepage is displayed</li> </ol> |

|                    |   |
|--------------------|---|
| Related User Story | Error Checking/Bug Fixing   |
| Test Name          | Login_With_Bad_Creds_Fail   |
| Description        | Login to the iOS app with bad credentials and expect a failed password message and no navigation.   |
| Related Functions  | Firebase.auth().signInWithEmailAndPassword()  |
| Test Steps         | <ol style="list-style-type: none"> <li>1. Open app from an iOS device.</li> <li>2. Enter username = NotAUser</li> <li>3. Enter password = BadPass</li> <li>4. Receive invalid password message and be denied homepage access</li> </ol> |

|                    |   |
|--------------------|---|
| Related User Story | Error Checking/Bug Fixing   |
| Test Name          | Login_With_Case_Insensitive_Success   |
| Description        | Login to the iOS app with known credentials with both uppercase and lowercase forms of the username and successfully gain access to the homepage.   |
| Related Functions  | Firebase.auth().signInWithEmailAndPassword()  |
| Test Steps         | <ol style="list-style-type: none"> <li>1. Open app from an iOS device.</li> <li>2. Enter username = CDD0035@AUBURN.EDU</li> <li>3. Enter password = @Auburneng5</li> <li>4. Confirm homepage is navigated to and displayed.</li> <li>5. Clear app cache and open the app again</li> <li>6. Enter username = cdd0035@auburn.edu</li> <li>7. Enter password = @Auburneng5</li> <li>8. Confirm the homepage is <i>still</i> navigated to and displayed.</li> </ol> |

|                    |  |
|--------------------|--|
| Related User Story | Error Checking/Bug Fixing  |
| Test Name          | Navigate_To_Client_Pages   |
| Description        | Check to assure that all client pages can be reached through expected route and all can be swiped left to navigate backwards   |
| Related Functions  | AppStack, Navigation(), Views  |
| Test Steps         | <ol style="list-style-type: none"> <li>1. Open the app from an iOS device and login with default or known credentials</li> <li>2. Click on 'Client' Button</li> <li>3. Confirm client page is displayed</li> <li>4. Click on edit cogwheel and wrench</li> <li>5. Confirm client edit page is displayed</li> <li>6. Swipe left to return back to client page</li> <li>7. Confirm client page is displayed</li> <li>8. Swipe left again and confirm homepage is navigated to</li> </ol> |

|                    |   |
|--------------------|---|
| Related User Story | Functional Football Scrapping   |
| Test Name          | Football_Games_Displayed  |
| Description        | Assure that Auburn and Alabama football games are being displayed properly on the calendar based on listing on ESPN.com   |
| Related Functions  | footballGameRefresh, functions.pubsub.schedule()  |
| Test Steps         | <ol style="list-style-type: none"> <li>1. Open the app from an iOS device and login with default or known credentials.</li> <li>2. Click the ‘Venue’ button from the homepage.</li> <li>3. Select ‘Renaissance-Exchange’ from the venue list.</li> <li>4. Search ESPN.com for the most recent Auburn game.</li> <li>5. Swipe to the month of said most recent game. (left for previous dates and right for future dates)</li> <li>6. Select the specific day of the football event</li> <li>7. Confirm the correct game is displayed</li> </ol> |

|                    |  |
|--------------------|--|
| Related User Story | Functional Email System  |
| Test Name          | Emailing_Simple_From_InSecure  |
| Description        | Confirm that NodeMailer is capable of sending simple emails, with plain string text, from the app system   |
| Related Functions  | NodeMailer.createTransport(), sendEmail(), sendArtistConfirmation(),   |
| Test Steps         | <p>PreReq :</p> <ol style="list-style-type: none"> <li>1. Have ‘user’ and ‘pass’ field of the gmail object set to an insecure gmail with no 2-factor and insecure 3rd party access enabled.</li> <li>2. Set sendArtistconfirmation()’s sendEmail parameters to a known email with a plain text string subject and text.</li> </ol> <p>PostReq:</p> <ol style="list-style-type: none"> <li>1. Open the app from an iOS device and login with default or known credentials.</li> <li>2. Click the ‘Venue’ button.</li> <li>3. Click the ‘Renaissance-Exchange’ venue.</li> <li>4. Click on a event on the calendar</li> <li>5. Click ‘Generate Forms’</li> <li>6. Click ‘Artist Confirmation’</li> <li>7. Check email used in the ‘to’ parameter of sendArtistConfirmation.</li> <li>8. Verify the email was properly received.</li> </ol> |

|                    |   |
|--------------------|---|
| Related User Story | Functional Email System   |
| Test Name          | Emailing_ArtistCon_From_Secure  |
| Description        | Confirm that the app is capable of using the MusicMattersBooking email through the use of an app pass as well as confirm the functionality of Artist Confirmation doc sendout.  |
| Related Functions  | NodeMailer.createTransport(), sendEmail(), sendArtistConfirmation(),  |
| Test Steps         | <ol style="list-style-type: none"> <li>1. Open the app from an iOS device and login with default or known credentials.</li> <li>2. Click the 'Venue' button.</li> <li>3. Click the 'Renaissance-Exchange' venue.</li> <li>4. Click on a event on the calendar</li> <li>5. Click 'Generate Forms'</li> <li>6. Click 'Artist Confirmation'</li> <li>7. Check email of the client the event was booked for. (or if a real client check the last send email from the musicmattersbooking email)</li> <li>8. Verify the email was properly received.</li> <li>9. Verify the email contained the pdf and met the design requirements of an Artist Confirmation</li> </ol> |

|                    |   |
|--------------------|---|
| Related User Story | Functional Email System   |
| Test Name          | Emailing_Invoice_From_Secure  |
| Description        | Confirm that the app is capable of using the MusicMattersBooking email through the use of an app pass as well as confirm the functionality of Artist Invoice doc sendout.   |
| Related Functions  | NodeMailer.createTransport(), sendEmail(), sendInvoiceConfirmation(),   |
| Test Steps         | <ol style="list-style-type: none"> <li>1. Open the app from an iOS device and login with default or known credentials.</li> <li>2. Click the 'Venue' button.</li> <li>3. Click the 'Renaissance-Exchange' venue.</li> <li>4. Click on a event on the calendar</li> <li>5. Click 'Generate Forms'</li> <li>6. Click 'Artist Invoice'</li> <li>7. Check email of the venue email or one of the venue email list emails.</li> <li>8. Verify the email was properly received.</li> <li>9. Verify the email contained the pdf and met the design requirements of an Artist Invoice.</li> </ol> |

|                    |  |
|--------------------|--|
| Related User Story | Functional Email System  |
| Test Name          | Emailing_Calendar_From_Secure  |
| Description        | Confirm that the app is capable of using the MusicMattersBooking email through the use of an app pass as well as confirm the functionality of Event Calendar doc sendout.  |
| Related Functions  | NodeMailer.createTransport(), sendEmail(), sendCalendarConfirmation()  |
| Test Steps         | <ol style="list-style-type: none"> <li>1. Open the app from an iOS device and login with default or known credentials.</li> <li>2. Click the ‘Venue’ button.</li> <li>3. Click the ‘Renaissance-Exchange’ venue.</li> <li>4. Click ‘Generate Forms’</li> <li>5. Click ‘Month Name Year Calendar’</li> <li>6. Check email of the venue email or one of the venue email list emails.</li> <li>7. Verify the email was properly received.</li> <li>8. Verify the email contained the pdf with all of the expected events in vertex42 format.</li> </ol> |

|                    |   |
|--------------------|---|
| Related User Story | Functional Email System   |
| Test Name          | Emailing_BookingList_From_Secure  |
| Description        | Confirm that the app is capable of using the MusicMattersBooking email through the use of an app pass as well as confirm the functionality of Event Calendar doc sendout.   |
| Related Functions  | NodeMailer.createTransport(), sendEmail(), sendCalendarConfirmation()   |
| Test Steps         | <ol style="list-style-type: none"> <li>1. Open the app from an iOS device and login with default or known credentials.</li> <li>2. Click the ‘Venue’ button.</li> <li>3. Click the ‘Renaissance-Exchange’ venue.</li> <li>4. Click ‘Generate Forms’</li> <li>5. Click ‘Month Name Year Booking List’</li> <li>6. Check email of the venue email or one of the venue email list emails.</li> <li>7. Verify the email was properly received.</li> <li>8. Verify the email contained the pdf with all of the events listed during that month in the expected design format of a booking list.</li> </ol> |

|                    |  |
|--------------------|--|
| Related User Story | Functional Email System  |
| Test Name          | GoogleDrive_Doc_Store_Success  |
| Description        | Confirm that the app is capable of saving all email pdfs that are sent out via the emailer to the MusicMattersBookings google drive.   |
| Related Functions  | Drive.uploadArtistConfirmation(),<br>Drive.uploadInvoiceConfirmation(),<br>Drive.uploadCalendarConfirmation()<br>Drive.uploadBookingListConfirmation()   |
| Test Steps         | <ol style="list-style-type: none"> <li>1. Open the app from an iOS device and login with default or known credentials.</li> <li>2. Click the 'Venue' button.</li> <li>3. Click the 'Renaissance-Exchange' venue.</li> <li>4. Click 'Generate Forms'</li> <li>5. Click '<i>Month Name Year Confirmation</i>'</li> <li>6. Click '<i>Month Name Year Invoice</i>'</li> <li>7. Click '<i>Month Name Year Booking List</i>'</li> <li>8. Click '<i>Month Name Year Calendar</i>'</li> <li>9. Check the MusicMattersBooking google drive and assure that the proper pdfs were created.</li> </ol> |

## Firebase Test Cases

*Completed By Chase Dumbacher*

|                    |   |
|--------------------|---|
| Related User Story | Database Data Sync-Ability  |
| Test Name          | iOS_App_To_Firebase_Venue_Sync  |
| Description        | Check to assure that when editing venue data the changes are properly received and updated in the firebase database   |
| Related Functions  | OnSave, database.updateVenue(), VenueViews  |
| Test Steps         | <ol style="list-style-type: none"> <li>1. Open the app from an iOS device and login with default or known credentials.</li> <li>2. Click the ‘Venue’ button.</li> <li>3. Click the cogwheel and wrench edit button for any venue.</li> <li>4. Edit the ‘name’ field of the venue and set name to “FirebaseNameCheck”</li> <li>5. Now pull up the firebase console from <a href="https://console.firebaseio.google.com/u/1/project/music-matters-229420/overview">https://console.firebaseio.google.com/u/1/project/music-matters-229420/overview</a></li> <li>6. Click on ‘Realtime Database’</li> <li>7. Unfold ‘Venues’</li> <li>8. Click ‘+’ to expand all data</li> <li>9. Search for a venue from the list matching the name of “FirebaseNameCheck”</li> </ol> |

|                    |  |
|--------------------|--|
| Related User Story | Database Data Sync-Ability   |
| Test Name          | iOS_App_To_Firebase_Client_Sync  |
| Description        | Check to assure that when editing venue data the changes are properly received and updated in the firebase database  |
| Related Functions  | OnSave, database.updateVenue(), VenueViews   |
| Test Steps         | <p>9. Open the app from an iOS device and login with default or known credentials.</p> <p>10. Click the ‘Client’ button.</p> <p>11. Select the cogwheel/wrench edit button for the entry on the list labeled “Test”</p> <p>12. Edit the ‘name’ field of the venue and set name to “Test-NameCheck”</p> <p>13. Now pull up the firebase console from <a href="https://console.firebaseio.google.com/u/1/project/music-matters-229420/overview">https://console.firebaseio.google.com/u/1/project/music-matters-229420/overview</a></p> <p>14. Click on ‘Realtime Database’</p> <p>15. Unfold ‘Clients’</p> <p>16. Click the ‘+’ at the top to expand all data</p> <p>17. Ctrl F to search for the name “Test”</p> |

|                    |   |
|--------------------|---|
| Related User Story | Database Data Sync-Ability  |
| Test Name          | iOS_App_To_Firebase_Event_Sync  |
| Description        | Check to assure that when editing venue data the changes are properly received and updated in the firebase database   |
| Related Functions  | OnSave, event.update(), VenueViews  |
| Test Steps         | <ol style="list-style-type: none"> <li>1. Open the app from an iOS device and login with default or known credentials.</li> <li>2. Click the 'Venue' button.</li> <li>3. Click the 'Renaissance-Exchange' venue.</li> <li>4. Select an event on the calendar or create a new one.</li> <li>5. Select a specific artist booking for that events from that day.</li> <li>6. Edit the 'price' field of the event and set the name = 1337.</li> <li>7. Now pull up the firebase console from <a href="https://console.firebaseio.google.com/u/1/project/music-matters-229420/overview">https://console.firebaseio.google.com/u/1/project/music-matters-229420/overview</a></li> <li>8. Click on 'Realtime Database'</li> <li>9. Click the '+' at the top to expand all data</li> <li>10. Ctrl F to search for the 1337 under a price field.</li> <li>11. Confirm that this was the event you modified.</li> </ol> |

|                    |  |
|--------------------|--|
| Related User Story | Database Data Sync-Ability   |
| Test Name          | iOS_App_To_Firebase_Client_Sync  |
| Description        | Check to assure that when editing venue data the changes are properly received and updated in the firebase database  |
| Related Functions  | OnSave, event.update(), VenueViews   |
| Test Steps         | <p>12. Open the app from an iOS device and login with default or known credentials.</p> <p>13. Click the 'Client' button.</p> <p>14. Click the 'Test' cogwheel and wrench from the client list.</p> <p>15. Edit the 'Name' field of the client and set the name = Test-T.</p> <p>16. Now pull up the firebase console from<br/> <a href="https://console.firebaseio.google.com/u/1/project/music-matters-229420/overview">https://console.firebaseio.google.com/u/1/project/music-matters-229420/overview</a></p> <p>17. Click on 'Realtime Database'</p> <p>18. Click the '+' at the top to expand all data</p> <p>19. Ctrl F to search for the Test-T under a name field from clients.</p> <p>20. Confirm that this was the client you modified.</p> |

|                    |   |
|--------------------|---|
| Related User Story | Database Security   |
| Test Name          | Invalid_User_Curl_Fail  |
| Description        | Assure the database can not be accessed without a valid user login  |
| Related Functions  | Firebase Database Rules   |
| Test Steps         | <p>1. Run a curl request on the firebase music matters database without any user login.</p> <p>2. Confirm that access was denied.</p> |

## Test Logs

*Completed By Chase Dumbacher*

|                    |   |
|--------------------|---|
| Related User Story | Error Checking/Bug Fixing   |
| Test Name          | Navigate_To_Event_Pages,<br>Navigate_Venue_Related_Pages,<br>Login_With_Bad_Creds_Fail,<br>Navigate_To_Client_Pages, Football_Games_Displayed |
| Tester(s)          | Chase, Sarah  |
| Last Tested Date   | 3/17/21   |
| Results            | Proper page was returned, Games where properly displayed  |

|                    |  |
|--------------------|--|
| Related User Story | Error Checking/Bug Fixing  |
| Test Name          | Login_With_Known_Creds_Success,<br>Login_With_Case_Insensitive_Success |
| Tester(s)          | Sarah and Chase  |
| Last Tested Date   | 2/10/21  |
| Results            | Successful login   |

|                    |  |
|--------------------|--|
| Related User Story | Functional Email System  |
| Test Name          | Emailing_Simple_From_InSecure,<br>Emailing_ArtistCon_From_Secure,<br>Emailing_Invoice_From_Secure,<br>Emailing_BookingList_From_Secure,<br>GoogleDrive_Doc_Store_Success |
| Tester(s)          | Sarah and Chase  |
| Last Tested Date   | 3/12/21  |
| Results            | Email and Doc successfully sent and created  |

|                    |                                      |
|--------------------|--------------------------------------|
| Related User Story | Functional Email System              |
| Test Name          | Emailing_Calendar_From_Secure        |
| Tester(s)          | Sarah and Chase                      |
| Last Tested Date   | 3/15/21                              |
| Results            | Calendar successfully made and sent. |

|                    |   |
|--------------------|---|
| Related User Story | Database Data Sync-Ability  |
| Test Name          | iOS_App_To_Firebase_Venue_Sync,<br>iOS_App_To_Firebase_Client_Sync,<br>iOS_App_To_Firebase_Event_Sync |
| Tester(s)          | Chase   |
| Last Tested Date   | 3/17/21   |
| Results            | Data in the database was properly changed.  |

|                    |                        |
|--------------------|------------------------|
| Related User Story | Database Security      |
| Test Name          | Invalid_User_Curl_Fail |
| Tester(s)          | Chase                  |
| Last Tested Date   | N/A                    |
| Results            | N/A                    |

|                    |                                |
|--------------------|--------------------------------|
| Related User Story | Website Dummy                  |
| Test Name          | Website_Dummy_Test             |
| Tester(s)          | Austin Newkirk, Austin Mongold |
| Last Tested Date   | 3/22/21                        |
| Results            | Website works as intended      |

|                    |  |
|--------------------|--|
| Related User Story | Cross-Platform-Integration   |
| Test Name          | Cross_Platform_Information_display   |
| Tester(s)          | Austin Newkirk, Austin Mongold, Sarah, Chase   |
| Last Tested Date   | 3/15/21  |
| Results            | Though not displayed on the calendar itself, we got the data printed in the console of the website, so the integration is there. |

|                    |   |
|--------------------|---|
| Related User Story | Ease Of View  |
| Test Name          | Ease_Of_View_Website_Test_1                           |
| Tester(s)          | Austin Newkirk, Austin Mongold                        |
| Last Tested Date   | 3/22/21   |
| Results            | Slight changes need to be made, but design looks good |

|                    |                                |
|--------------------|--------------------------------|
| Related User Story | Clean UI/Experience            |
| Test Name          | Clean_UI_Website_Test          |
| Tester(s)          | Austin Newkirk, Austin Mongold |
| Last Tested Date   | 3/22/21                        |
| Results            | Everything works great.        |

|                    |  |
|--------------------|--|
| Related User Story | Displaying Real Information  |
| Test Name          | Real_Info_Test_Web   |
| Tester(s)          | Austin Newkirk, Austin Mongold   |
| Last Tested Date   | 3/21/21  |
| Results            | Some functionality working; All holidays are showing properly, and all Auburn/Alabama games are showing properly. However, firebase data is not showing. |

|                    |  |
|--------------------|--|
| Related User Story | Email Functionality (Web)              |
| Test Name          | Email_func_web_test_1                  |
| Tester(s)          | N/A                                    |
| Last Tested Date   | N/A                                    |
| Results            | User Story/functionality not developed |

## Lessons Learned

*Completed By Austin Newkirk*

### Cycle 1 - Lessons Learned

We, as a group, have learned numerous lessons from our time throughout cycle 1. It goes as followed:

1. Further solidified lessons already learned. The biggest takeaways we had during this cycle truly was learning how ridiculously important research and communication is when constructing code. Without our daily text conversations, our regular meetings with each other about our progress and plans, our weekly conversations with Mr. Moody and his input, we would not be able to build an iOS app and a website. That's how truly important communication is. Additionally, a few hours of research before a coding section really goes a long way. As an example, the web team (consisting of Austin Newkirk and Austin Mongold) could have easily just started building an event calendar from pure scratch, creating a lot of development time for the project. However, after researching for about 2 hours, we were able to find an open-source software specifically designed for people in our situation, and has all the functionality we ever need and more to help complete this task. This research alone saved us tens of hours of development time.
2. There are advantages working in a small team. One takeaway we all had during this cycle was much work we accomplished with only 4 people. It is easy to communicate with a smaller team, it is easier to find times for meetings, and it is easier for all of us to be on the same page when developing software. With a larger

team, it is significantly harder for everyone to communicate with everyone else; it's a constant battle. This ease of communication allowed each individual person to be more effective compared to an individual on a large team project. Though a larger team should be more effective at delivering a completed application quicker, we learned that this relationship isn't linear; rather it's more-or-less logarithmic.

## Cycle 2 - Lessons Learned

*Completed By Austin Newkirk*

We've learned some new major lessons throughout cycle 2. It goes as followed:

1. Do not underestimate workload, even if it seems easy. Both the iOS app group and the website group encountered similar issues as outlined in the User Stories: we underestimated the time it takes to develop new functionality. Due to various unforeseen hurdles both teams encountered, such as email functionality for the iOS app and displaying real information on the website, our predicted time for development became inaccurate.

Having an accurate predicted time for software development is a very important tool to know, as outlined in our Software Process class. Even if your programming speed is slower than average, having a consistent, correctly predicted time is much more useful in-industry then having a faster, but less consistent time.

2. Have good time management skills. Due to the nature of this class being populated by college seniors, and with over half of the semester behind us, our workload is quite large. Towards the beginning of the semester, some of us had an unorganized approach to our day-to-day workload, which can be a decently effective approach if the workload is rather light. However, the lightness of our workload quickly vanished. We soon realized that having an organized workload day-to-day (planned a few days ahead) helped us keep on track for this class as well as others.

This lesson can be applied to almost any situation you find in life. Every life will have its busy moments, and having this tool can make you thrive through the workload as opposed to being drowned by it.

Additionally, the lessons we've learned in Cycle 1 were very useful in this Cycle, too. This includes the importance of good, proper, constant communication with our team, the

importance of researching before tackling a problem, and the importance of the advantages working in a small team.

## Appendix A

*Completed By Chase Dumbacher*

### Status Reports

[Status Sheet Cycle 1 Week 1](#)

[Status Sheet Cycle 1 Week 2](#)

[Status Sheet Cycle 2 Week 1](#)

[Status Sheet Cycle 2 Week 2](#)

### Meeting Minutes

2/04/2021

- Chase and Mike meet to discuss the desired design and button choices of the iOS app.

Time Spent : 30 minutes.

2/05/2021

- Chase, Austin N, Austin M, Sarah, and Mike held our weekly customer meeting to update Mike on our progress and receive any feedback on the product and work.

Time Spent : 30 minutes.

2/08/2021

- Chase, Austin N, Austin M, and Sarah held a team meeting to update the Web and App teams on the progress made so far in preparation for our meeting with Mike.

Time Spent : 30 minutes

2/12/2021

- Chase, Austin N, Austin M, Sarah, and Mike held our weekly customer meeting to update Mike on our progress and receive any feedback on the product and work.

Time Spent : 30 minutes.

2/20/2021

- Chase, Austin N, Austin M, Sarah, and Mike held our weekly customer meeting to update Mike on our progress and receive any feedback on the product and work.

Time Spent : 30 minutes.

2/20/2021

- Chase and Mike meet to discuss and handle the suspended bill account for firebase.

Time Spent : 30 minutes

2/24/2021

- Chase and Austin N held a team meeting to update everyone of any progress made, discussed status report attendance, and planned out work separation for the cycle report.

Time Spent : 30 minutes

3/5/2021

- Chase, Austin N, Austin M, and Sarah held an update meeting with Mike to report progress made. Discussed delay but continued work on email and document functionality as well as received further feedback on calendar website design.

Time Spent : 30 minutes

3/12/2021

- Chase, Austin N, Austin M, and Sarah held an update meeting with Mike to report progress made. Reported the final break through of the emailer and documentation generation and updated him on the new TestFlights build to allow him to begin user end-end testing. Also further received feedback on website calendar design and delays getting data to show on the calendar.
- Time Spent : 30 minutes

3/21/2021

- Chase, Austin N, Austin M, and Sarah held an update meeting with Mike to report progress made. Reported the completion of the document page and pdf/emailer generation for the calendar export. Also updated Mike on delay and struggle to display website data.
- Time Spent : 30 minutes

## Correspondence/Digital Signature

[EXT] MMBS-Team 5-Cycle 1-Team Report-Review & Sign off...

**MM** Music Matters <[musicmattersbookings@gmail.com](mailto:musicmattersbookings@gmail.com)>  
Mon 3/1/2021 8:48 AM  
To: Music Matters <[musicmattersbookings@gmail.com](mailto:musicmattersbookings@gmail.com)>  
Cc: Kai Chang; Chase Dumbacher; Sarah Pham; Austin Mongold; Austin Newkirk

✉ ↺ ↻ → ⋮

**CAUTION: Email Originated Outside of Auburn.**

**Morning Kai !!...Hope all continues to be safe and well with you and yours and this semester is moving along well....This morning I got the Team 5- Cycle 1 Report and have reviewed it from top to bottom....As you well know, I now have a very extensive track record of seeing and reviewing these reports, as well as, working with different teams on this project....Each time it has been a learning curve for me, as well as with each team...With the 1st three teams I mistakenly assumed that they knew what they were doing and so I pretty much took a laissez-faire approach and let them run with it on their own....So it only took me three teams to get it through my head that I was going to have to have a much more hands on approach with the teams !!....So,,starting with Team 4, we began having weekly meetings to check the progress and address any issues and the results were much better from Team 4...Now that brings us to Team 5 and we are having weekly team Zoom meetings and this team's productivity so far is impressive...Having said that, I will also have to say that this team, cycle 1 report seems to be the most complete, accurate and thorough 1st report presented by any previous team !!...**

**So far this team seems to have accomplished very effective communication with each other and with me, a very effective division of labor, within the team and each team member seems to be equally pulling their own weight....This is the first team of the five that has actually read the design specs, talked to me and understood what I am trying to accomplish and how to get it accomplished and seem to be on track to possibly get the job done this time round !!....**

**We are at the halfway point for this semester and I'm optimistic...BUT...Having said that, the proof is in the pudding and each of the previous teams has managed to get some part or parts of the project working to some degree but so far no team has accomplished actually producing a working and useful product....SO...I guess time will tell if "5" is the magic number and TEAM 5 brings home a win....I'm pulling for them and all I can say is WAR EAGLE !!...and keep up the good work...**

Consider this my official "digital sign off" for the Team 5-Cycle 1 Report...Michael Moody-MMBS

Reply | Reply all | Forward

## Correspondence Between Team And Customer

MMB Thursday Meeting

**MM** Music Matters <[musicmattersbookings@gmail.com](mailto:musicmattersbookings@gmail.com)>  
Thu 1/21/2021 12:40 PM  
To: Chase Dumbacher

**NOTICE: This email originated from Gmail. Please report any phishing activity to [phishing@auburn.edu](mailto:phishing@auburn.edu).**

**Good...See you then !!...M**

...

Reply | Forward

**CD** Chase Dumbacher  
Thu 1/21/2021 12:10 PM  
To: Music Matters <[musicmattersbookings@gmail.com](mailto:musicmattersbookings@gmail.com)>  
Cc: Austin Mongold; Austin Newkirk; Sarah Pham

Hello Mike,

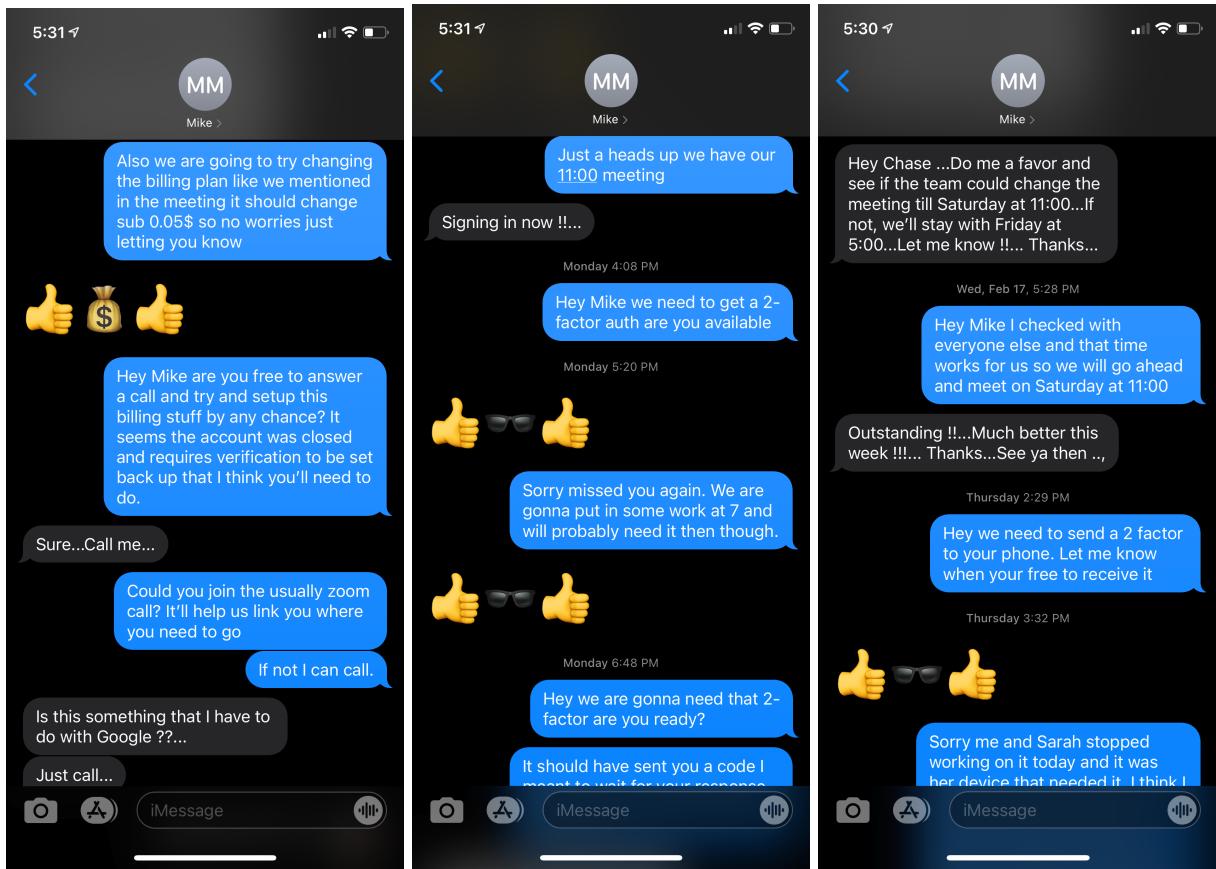
As we mentioned during our last meeting, I've setup a zoom link for our meeting today and included it below. If you have any trouble joining through the link below let me know. I Look forward to the meeting at 3.

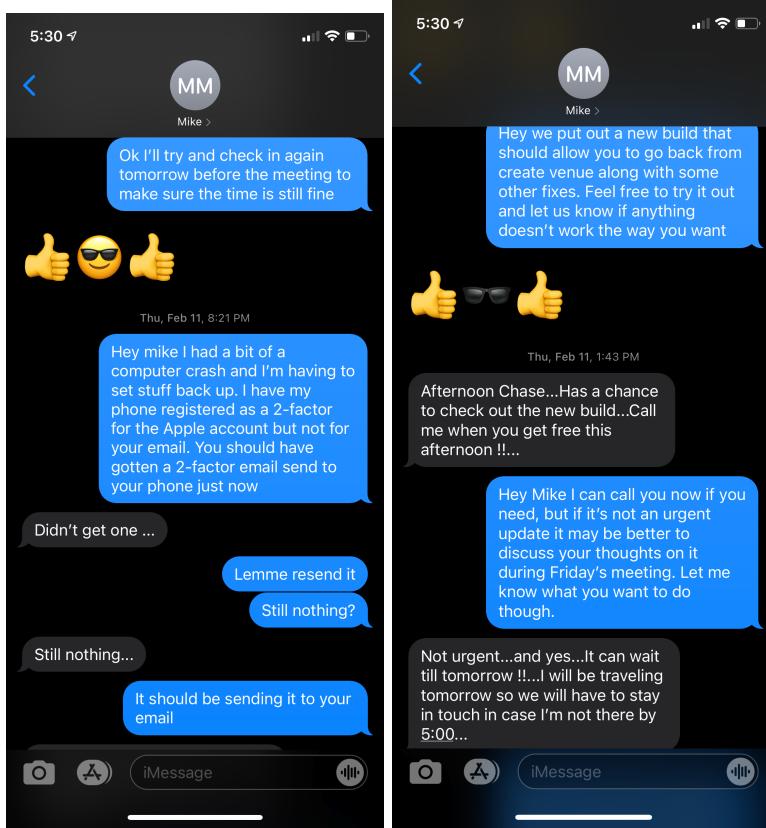
<https://auburn.zoom.us/j/6317339508>

**Join our Cloud HD Video Meeting**

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auburn.zoom.us





## Correspondence Between Team And Instructor

COMP 4710-001

**Kai Chang**  
Wed 2/24/2021 1:23 PM  
To: Chase Dumbacher

Chase,

You can just record activities after Cycle 1 (next week).

Kai

...

Are the suggestions above helpful? Yes No

[Reply](#) | [Forward](#)

---

**Chase Dumbacher**  
Wed 2/24/2021 1:22 PM  
To: Kai Chang

Hello Dr. Chang,

Since we have our cycle report/presentation next week I wanted to know if we should record our time from today up until the next status report (on March 12th) or should we wait until after our cycle reports next week and only then begin recording our time and progress for the next status sheet?

Thank you,  
Chase Dumbacher

## COMP-4710-001



Kai Chang  
Tue 2/9/2021 6:58 PM  
To: Chase Dumbacher



Either way is fine.

Kai

On Feb 9, 2021, at 6:18 PM, Chase Dumbacher <cdd0035@auburn.edu> wrote:

Hello Dr. Chang,

I just wanted clarification about the email sent out today regarding the status reports for senior design. In the email it mentioned we should email our status reports by Tuesday at 3 p.m. but there is an option to submit the files on canvas through the assignment. Should we turn it in via email, canvas, or both?

Okay, thank you!  Great, thanks!  Great, thank you so much!

Are the suggestions above helpful? Yes No

[Reply](#) | [Forward](#)



Chase Dumbacher  
Tue 2/9/2021 6:18 PM  
To: Kai Chang



Hello Dr. Chang,

I just wanted clarification about the email sent out today regarding the status reports for senior design. In the email it mentioned we should email our status reports by Tuesday at 3 p.m. but there is an option to submit the files on canvas through the assignment. Should we turn it in via email, canvas, or both?

## COMP 4710-001



Kai Chang  
Wed 2/3/2021 4:55 PM  
To: Chase Dumbacher



Chase,

No penalty will be imposed. 2/8 is the last day of all presentations. I cannot set individual due dates for different teams and have to set the due date to the very last one.

I like to finish grading of each team on the day of their presentation.  
No worry.

Kai

...

Thank you!  Thank you for the clarification.  Thank you so much!

Are the suggestions above helpful? Yes No

[Reply](#) | [Forward](#)



Chase Dumbacher  
Wed 2/3/2021 3:28 PM  
To: Kai Chang



Hello Dr. Chang,

I noticed the senior design email that just got sent out around 3 o'clock. I wasn't aware that the peer review was due at noon the day of the presentation. I went ahead and filled it out and submitted it, but I wanted to know if it being past noon would affect our grade. On canvas the assignment is set to be due Feb 8th, which was my reasoning for thinking it wasn't due right away. I apologize if it was mentioned or stated somewhere else on canvas and I just missed that piece of information.

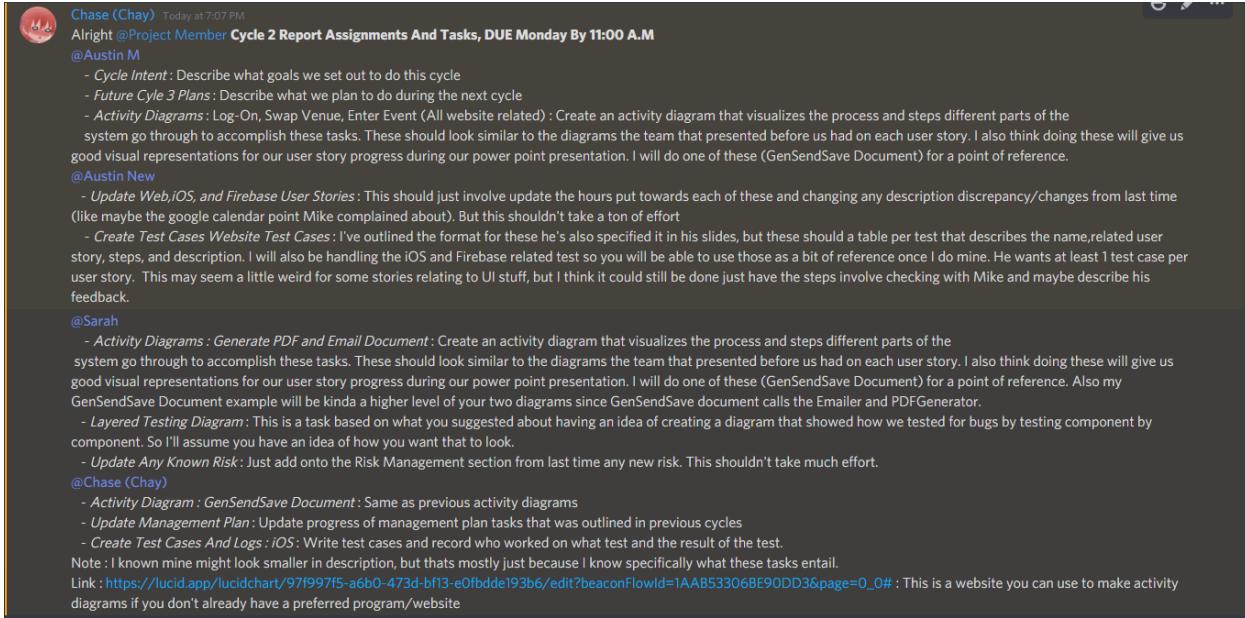
Thank you,  
Chase Dumbacher

## Correspondence Between Team And Team

 **Chase (Chay)** Yesterday at 12:44 PM  
@Project Member Reminder : Meeting in 15min

 **Chase (Chay)** 03/19/2021  
@Project Member Just a reminder the Cycle Report is due Monday at 11 a.m. so if you haven't looked through it or thought about it might be good to start doing that.

 **Chase (Chay)** 03/17/2021  
@Project Member just a reminder status report meeting in about 15 min



Chase (Chay) Today at 7:07 PM  
Alright @Project Member **Cycle 2 Report Assignments And Tasks, DUE Monday By 11:00 A.M**  
@Austin M  

- *Cycle Intent*: Describe what goals we set out to do this cycle
- *Future Cycle 3 Plans*: Describe what we plan to do during the next cycle
- *Activity Diagrams*: Log-On, Swap Venue, Enter Event (All website related): Create an activity diagram that visualizes the process and steps different parts of the system go through to accomplish these tasks. These should look similar to the diagrams the team presented before us had on each user story. I also think doing these will give us good visual representations for our user story progress during our power point presentation. I will do one of these (GenSendSave Document) for a point of reference.

@Austin New  

- *Update Web,iOS, and Firebase User Stories*: This should just involve update the hours put towards each of these and changing any description discrepancy/changes from last time (like maybe the google calendar point Mike complained about). But this shouldn't take a ton of effort
- *Create Test Cases Website Test Cases*: I've outlined the format for these he's also specified it in his slides, but these should a table per test that describes the name,related user story, steps, and description. I will also be handling the iOS and Firebase related test so you will be able to use those as a bit of reference once I do mine. He wants at least 1 test case per user story. This may seem a little weird for some stories relating to UI stuff, but I think it could still be done just have the steps involve checking with Mike and maybe describe his feedback.

@Sarah  

- *Activity Diagrams : Generate PDF and Email Document*: Create an activity diagram that visualizes the process and steps different parts of the system go through to accomplish these tasks. These should look similar to the diagrams the team presented before us had on each user story. I also think doing these will give us good visual representations for our user story progress during our power point presentation. I will do one of these (GenSendSave Document) for a point of reference. Also my GenSendSave Document example will be kinda a higher level of your two diagrams since GenSendSave document calls the Emailer and PDFGenerator.
- *Layered Testing Diagram*: This is a task based on what you suggested about having an idea of creating a diagram that showed how we tested for bugs by testing component by component. So I'll assume you have an idea of how you want that to look.
- *Update Any Known Risk*: Just add onto the Risk Management section from last time any new risk. This shouldn't take much effort.

@Chase (Chay)  

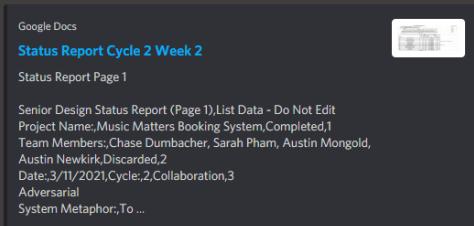
- *Activity Diagram : GenSendSave Document*: Same as previous activity diagrams
- *Update Management Plan*: Update progress of management plan tasks that was outlined in previous cycles
- *Create Test Cases And Logs : iOS*: Write test cases and record who worked on what test and the result of the test.

Note: I known mine might look smaller in description, but that's mostly just because I know specifically what these tasks entail.  
Link : [https://lucid.app/lucidchart/97f997f5-a6b0-473d-bf13-e0fbdde193b6/edit?beaconFlowId=1AAB53068E90DD3&page=0\\_0#](https://lucid.app/lucidchart/97f997f5-a6b0-473d-bf13-e0fbdde193b6/edit?beaconFlowId=1AAB53068E90DD3&page=0_0#) : This is a website you can use to make activity diagrams if you don't already have a preferred program/website

 **Chase (Chay)** 03/11/2021  
@Project Member Just a Pre-Day reminder. We do have the Status Report Meeting at 8 A.M with Chang and the rest of the class. We also have the meeting with Mike at 5 P.M tomorrow as well.  
I've also gone ahead and made the Cycle 2 Week 2 Status sheet so you guys should be able to start recording anytime done between today/tomorrow up until the next status report/meeting. Which is on Weds so we don't have as much time inbetween now and then.

 **Chase (Chay)** 03/12/2021  
@Project Member we do have our meeting with Mike at 5

 **Chase (Chay)** Today at 2:38 PM  
 @Project Member Just a heads up the status report meeting last week was pushed to Friday because of the wellness day, but we have another status report sheet due Tuesday and the meeting Weds (at 8 am) because I guess the Friday was just the one time thing. Its kinda a short time-frame between the two so obviously we won't have as much to report and put on the sheet, but I imagine he will want us to have some done. I would suggest recording any time spent from last Friday up until Tuesday at 2pm when we turn in the sheet. Also he got onto us a little bit last week about not having all our dates on our time sheet right as well as making sure our week times on page 2 match up with our individual times. So make sure to have those two things correct. Also I know it probably feels like cycle 2 just started but cycle 2 report will be due next **Monday March 22nd** and we present on the **Friday March 26th** the report shouldn't be as heavy this time since we are building off the last one I believe but I will try and outline it and divy out the parts we are each responsible for hopefully by either Tuesday or earlier on Weds.  
 Status Sheet link for those of need it : <https://docs.google.com/spreadsheets/d/1LWuXpmGjEhyDO46oY6L0RGMOw6lbKoBYucUgM-F6UY/edit?usp=sharing>



 **Chase (Chay)** Today at 5:04 PM  
 @Project Member I've gone ahead and sorted out the presentation slides. you all should already have the invite to it. Our presentation is on Friday I would like to have all the power point finished earlier on Thursday so we can do a quick run through like last time Thursday night we also will have to do a live demo during/after our presentation I plan to have this done through Sarah's laptop so we can simulate the app and show website through the zoom share. I'll do a short write up on what exactly the demo will look like. Also we should still be putting in work on the website and app it would be nice to have the calendar up and showing data. Code Freeze is end of day Wednesday so don't make any changes on Thursday that will be left for reviewing and making sure it all works as intended for the demo.  
 @Austin M : Cycle Intent and Future Work Slides and Demo at the end: Talk about what was our intent for this cycle and about what work we have left and planned for the next 2 cycles  
 @Austin New : Website User Stories and Testing : Talk about the users stories and what progress we've made on them in relation to the website. Talk about how we plan to test and what we've tested  
 @Sarah : iOS User Stories and Major Roadblocks (Risk Mitigation stuff) : Again talk about iOS user story progress this cycle and risk stuff  
 @Chase (Chay) : Design and Arch. and Management Plan : I'll talk about the system structure and how the different parts interact as well as what the tasks for this cycle were and the timelines we had set for them.

 **Chase (Chay)** Today at 7:39 PM  
 @Project Member Well me and Austin N. went ahead and figured out who will do what work I've color coded the table of contents in the doc to separate out the work. As of right now the colors and task are as follow  
 @Sarah : Color Pink : iOS App User Stories, Firebase User stories. For the user stories you'll need to update the actual hours put in as well as who are the current coders, testers and the status of the stories. we are also 3 user stories short of the 10 required since I took out a few from last time that I felt didn't really match up with what we're working on so you'll need to add 3 more user stories I think you could add something about bug fixing, refactoring, and documents generator/mailer but these are just suggestions. You also have the risk mitigation portion, for what all that should look like I suggest looking at the "I4-Sample\_Senior\_Design\_CycleReport" that I attached in the chat above + its also on canvas.  
 @Austin M / Color Green : You have the Project Introduction portion. This includes Previous Dev, Intent This Cycle, and Future Work. Overall this is the least work heavy section. The thought is by giving you a little less report work you will have more time to work on the website code and get the data showing so we can have a better looking demo for when we have the presentation (next Friday, the 5th). Austin N. also mentioned he'd try and talk with you and figure out some time to code together.  
 @Austin New : Color Orange : As we mentioned you'll have Website User Stories, Test Plan and Test Procedures as well as Lessons Learned. Don't forget that the user stories already written still need to be updated. Also feel free to add 1 or 2 new user stories if you can think of something that describes a major functionality you guys are working on or plan to work on (think like the document generator and mailer for the website). Testing can be future planned test.  
 \_\_ Continue Due To Word Count. (edited)  
 @Chase (Chay) : Color Blue : I will handle Design Documentation as well as Management Plan. This involves planning our tasks for the rest of the semester and writing out on the report how we intend to do that. Mostly the stuff I put together on the Monday.com site I linked earlier. And then the design documentation will involve creating UML diagrams high and low level along with describing how the different functions and bigger level system are working. I've also tried to outline the cycle report and resources needed so that you guys have a clear idea of what needs to be done. (edited)  
 Can't figure out why discord is italicizing portions of that message. looked for any random stars and couldn't find them so sorry for the italics.

★ **Chase (Chay)** pinned a message to this channel. See all the pins. Today at 7:44 PM

 **Chase (Chay)** Today at 7:45 PM  
 I've also gone ahead and pinned this message incase it gets lost and you guys need to reference back to it

 **Chase (Chay)** Today at 7:55 PM  
 Also Sorry one more reminder all this work is due Monday by 11:30 its technically noon but I want to make sure I have time to export double check and submit it.

# updates

## Welcome to #updates!

This is the start of the #updates channel.

[Edit Channel](#)

 Sarah 02/08/2021 Today Chase and I figured out how to upload a new testflight build so that we could figure out the bug with the app going straight to the venue page instead of the home page. The testflight is now version 1.0.5.

February 10, 2021

 Austin New 02/10/2021 Login page is now functional for the website (edited)

 Austin New 02/10/2021 additionally, it remembers if you logged in before in your browser

 Chase (Chay) 02/10/2021 Is this login through firebase auth?

 Austin New 02/10/2021 yes

 Chase (Chay) 02/10/2021 awesome

 Sarah 02/10/2021 Oh yeah, today Chase and I got the cache issue fixed and a new testflight of the app is available for testing, we also identified the issue of why forms were not being sent to the email because of the email that it's sending from. We also researched more into the way our app is sending these emails/pdf's to the google drive.

February 24, 2021

 Sarah Today at 4:08 PM Our firebase is now part of the Blaze plan, meaning you can now use the Cloud functions feature.

 Chase (Chay) 02/03/2021 @Austin M You don't need to use visual studio if we plan to do javascript. Visual studio sets up C# projects pretty well but javascript would be fine with any kind of text editor like visual code etc.

 Austin M 02/03/2021 Oh okay

 Chase (Chay) 02/03/2021 <https://firebase.google.com/docs/database/web/start>

Firebase  
[Installation & Setup in JavaScript | Firebase Realtime Database](#)

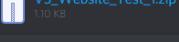
<https://towardsdatascience.com/host-a-dynamic-website-on-google-firebase-for-free-using-node-js-and-cloud-firestore-db-88e98239e1b9>

Medium  
[Host a dynamic website on Google Firebase for free using Node.js an...](#)

Tushar Kapoor: (<https://www.tusharck.com/>)



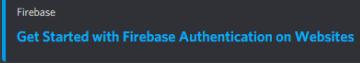
 Austin M 02/03/2021 Here is a basic login site. Sorry for the barebones look about it lol

 VS\_Website\_Test\_1.zip 

February 4, 2021

 Chase (Chay) 02/04/2021  
Hey @Austin M. Thats a good start. I think next step is trying to incorporate the actual firebase side. If the firebase documentation has Auth libraries that you can use to make the login actually work. It might be useful to look at how the app handles the auth since it is also javascript

 Austin New 02/04/2021  
Oh yeah i forgot to say I checked it out  
I was working on the firebase stuff, didn't figure out how to connect it so took a break and went to class etc  
good work @Austin M

 Chase (Chay) 02/04/2021  
<https://firebase.google.com/docs/auth/web/start> maybe a good start  


 Chase (Chay) 02/04/2021  
@Web Dev I went ahead and added you guys to the firebase database accounts so you should be able to login and see the database from the emails you guys gave me earlier after you accept the invite

 Austin New 02/04/2021  
just did  
you're talking trello right?

 Sarah 02/04/2021  
@Austin M Did you add it to the git?

 Chase (Chay) 02/04/2021  
@Austin New No I'm talking about the firebase database. Like I made it so your emails will be able to access the google cloud stuff.  
I also sent trello invites though

 Austin New 02/04/2021  
ohhh ok because i didnt see any emails about the firebase

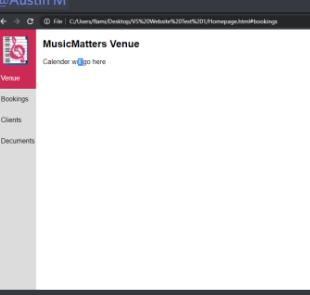
 Austin M 02/04/2021  
@Sarah I believe so

 Chase (Chay) 02/05/2021  
@Web Dev Taking a look at the trello board i setup for the web team might help you guys get an idea of the different task that need to be done and the estimated time that it'd be good to get them done. I'll leave it to you guys to move the cards over and stuff to keep track of what is and isn't done

 Austin M 02/05/2021  
Okay cool  
What email did the trello invite go to?

 Chase (Chay) 02/05/2021  
the atmongo@icloud one  
the one you gave for github

 Austin M 02/05/2021  
Im in github with my gmail I think  
But that would explain why i cant find it lol. I was checking my gmail

 Austin New 02/05/2021  
@Austin M  


got this started. Layout good?

 Chase (Chay) 02/05/2021  
There should only be two real buttons. The Venue and the Client. Because the bookings and documents show the calendar or documents based on the selected venue so you only need to main buttons  
That was what we talked about a little bit during the meeting today. The layout looks good though

 **Austin M** 02/09/2021  
@Austin New Do we have a shared filespace for us to put stuff in?

 **Austin M** 02/09/2021  
Or are we just using github?

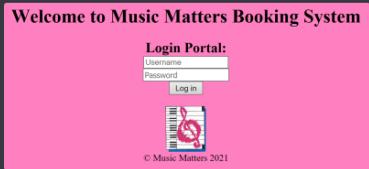
 **Austin New** 02/09/2021  
I think I uploaded it to the GitHub

 **Austin M** 02/09/2021  
Okay cool

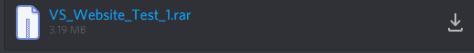
I'm very underexperience with github so I'm still learning the ropes lol

 **Austin New** 02/09/2021  
Though visual studio was giving me some trouble with it, I'll upload it soon out of the house rn

 **Austin M** 02/09/2021  
How does this look for the login screen?



 **Austin New** 02/09/2021  
i like it



here is what I worked on btw

 **Austin M** 02/09/2021  
Okay cool I'll check that out here soon

February 10, 2021

 **Austin M** 02/20/2021  
- Continue implementing firebase to all 4 pages  
I'll look into it! (edited)

 **Chase (Chay)** 02/20/2021  
The color changes looked good though, I liked them at least.

 **Austin M** 02/20/2021  
Thats good lol  
They are definitely easier on the eyes for the most part

 **Chase (Chay)** 02/20/2021  
I'm certainly used to the dark theme look so I am biased.

 **Austin M** 02/20/2021  
lol same dark mode ftw

 **Austin M** 02/20/2021  
I finally got the firebase data to display in the console

```
email:me:jazzercise@gmail.com
email:me:me@jazzercise.com
Stage Name:Me, Zack & Curtis
email:me:petersonstjohn@gmail.com
Split Check:Me, False
Stage Name:Me, General Registration
email:me:inventiveักษณ์@aol.net
Split Check:Me, False
Stage Name:Me, & Ryan
email:me:inventiveักษณ์@aol.net
Split Check:Me, False
Stage Name:Me, & Ryan
email:me:inventiveักษณ์@aol.net
Split Check:Me, False
Stage Name:Me, & Meena
email:me:inventiveักษณ์@aol.net
Split Check:Me, True
Stage Name:Me, The Other Me
email:me:inventiveักษณ์@aol.net
Split Check:Me, False
Stage Name:Me, The Despacito
email:me:nurisilverman@gmail.com
Split Check:Me, False
Stage Name:Me, Purine Shepherd
email:me:katm000@outlook.com
Split Check:Me, False
Stage Name:Me, Thanksgiving
email:me:vivemepink@outlook.com
Split Check:Me, False
Stage Name:Me, The Despacito
```

 **Austin New** 02/20/2021  
ooooo  
nice work  
ill work on it a bit later tonight, currently driving

 **Sarah** 02/04/2021  
<https://testflight.apple.com/join/DPIVVg5W>

**Join the Music Matters BS beta**  
Available on iOS



February 10, 2021

 **Austin New** 02/10/2021  
whats the username/pass for the app?

 **Chase (Chay)** 02/10/2021  
There's many they are all in the firebase you can add new ones  
if you go to firebase and go to authentication you can see all the current users and add new ones

 **Austin New** 02/10/2021  
i cant see the passwords for them, its the test@gmail pass test?

 **Chase (Chay)** 02/10/2021  
You'd have to reset them to know the password for a current one. I think the test email is probably @Auburneng5 or @Auburneng4  
probably 4 since that was made by the last group

 **Chase (Chay)** 02/05/2021  
Hey @Project Member here is a link to a google sheet I setup based on the status report template. I'm not entirely sure but I think we have to submit a status report on the 17th. Its kinda unclear cause there are 3 marks on the waterfall sheet I'm not sure if we have to submit status reports weekly? or just three times before the cycle I'm still not 100% sure, but either way we need to be keeping track of our time and work on this so that we can submit it when we need to.  
[https://docs.google.com/spreadsheets/d/1QGZ5qCaEo36iFEgkhfgYDqMG5ihUQIO6E5lh\\_bPYUg/edit?usp=sharing](https://docs.google.com/spreadsheets/d/1QGZ5qCaEo36iFEgkhfgYDqMG5ihUQIO6E5lh_bPYUg/edit?usp=sharing)

**Google Sheets - create and edit spreadsheets online, for free.**  
Create a new spreadsheet and edit with others at the same time -- from your computer, phone or tablet. Get stuff done with or without an internet connection. Use Sheets to edit Excel files. Free from Google.

 **Austin M** 02/05/2021  
Okay. I'll go back and add my hours that I remember when I get a chance. Who is member 1, 2, 3, and 4?

 **Sarah** 02/08/2021  
@everyone i made an updates channel just so we can all update each other with where we are at

 **Sarah** 02/08/2021  
@everyone Are you guys good to meet tomorrow for a quick meeting at 7pm? (edited)

 **Austin New** 02/08/2021  
Yeah I can do that

 **Austin M** 02/08/2021  
Sure

 **Chase (Chay)** 02/11/2021  
@Project Member Just a reminder to fill out the status report form as you are working day by day. You should be filling out your individual page as well as your part on page 2. there is a video he made on canvas that details filling it out if you don't fully understand how to fill out page 2.

February 12, 2021

 **Chase (Chay)** 02/12/2021  
@Project Member Just a reminder meeting in 7 minutes

 **Austin M** 02/12/2021  
I need to be let in

 **Sarah** 02/12/2021  
same

 **Chase (Chay)** 02/12/2021  
sorry... mb

February 15, 2021

 Chase (Chay) 02/15/2021  
 @Project Member Just a final reminder the status report sheet is going to be turned in tomorrow at 2:50 p.m so make sure you fill out your portions of it before then. @Web Dev you guys need to fill out the the accomplishments and obstacles faced portion in relation to the website building, also if you see any current risk for the project that the website might be creating put that in the risk portion also.

\* You guys also need to match the actual hours put into the user stories on the first page that you guys put in.

 Austin M 02/15/2021  
 I'll do it tonight! Totally slipped my mind. Thanks for the reminder!

 2

 Austin M 02/15/2021  
 For the hours on a user story, are we summing total hours (mine + Austin N), or are we counting those hours as the same?

 Austin New 02/15/2021  
 im pretty sure its individual  
 ./the same

 Chase (Chay) 02/15/2021  
 if you guys worked on the same user story yes  
 there is a individual sheet for each person but the user stories at the front should add up with the amount of time you both put into them

 Austin M 02/15/2021  
 Okay cool

 Chase (Chay) 02/16/2021  
 Hey @Project Member I turned in the status report earlier today at 2:50, but it seems like @Austin M and @Austin New didn't quite fill out the page 2 portion all the way. I asked Chang about it to see if it would be a problem since the hours filled in there are connected to the hours on the timesheets and he said he'd let it slide for this time since its the first week but to make sure we have them matching and filled out next week. If your not quite sure how to fill out parts of the form there is the video on canvas that walks through it

 Austin M 02/16/2021  
 ill check the video later  
 thanks

 Chase (Chay) 02/16/2021  
 Its not super complicated you filled out which user stories you where working on he just wants us to separate out where our hours where put in between process,refactoring,production/code, and client hours.

 Chase (Chay) 02/16/2021  
 Also just a second heads up to everyone @Project Member I went ahead and copied the week 1 status report and cleaned out all the cells that needed to be so you can begin using this for keeping track of progress and hours. You should have gotten a invite to the sheet titled Status Report Week 2

 Austin New 02/16/2021  
 ok

 Chase (Chay) 02/17/2021  
 @Project Member Hey guys Mike has asked if we could move Fridays meeting to Saturday at 11:00 let me know if that works with everyone else. He said he could make the normal Friday time work if needed but it seems like its less ideal for him

 Austin M 02/17/2021  
 works for me

 Sarah 02/17/2021  
 sure

 Austin New 02/17/2021  
 Works for me to

 Chase (Chay) 02/17/2021  
 Cool we will go with that then.

 Chase (Chay) 02/20/2021  
 @everyone just a reminder meeting in 20 minutes.

 1

 Austin New 02/20/2021  
 Sorry guys. I set my alarm for 10:30 but for some reason it never went off

 Chase (Chay) 02/20/2021  
 All good we updated Mike on the progress we accomplished a little less this week compared to last but he's still alright with where we are at in relation to the semester. Just make sure your keeping your status sheet and everything up to date and scheduling time to work on stuff.

 Chase (Chay) 02/20/2021 Hey guys it seems that we need a 'management plan' for the next status report basically a timeline of tasks and stuff like a gantt chart for the future development of the project. I went ahead and found a good site for managing and making Gantt charts and it kinda seems like if we are gonna have something like this the trello isn't really needed. So... sorry to invite you guys to a different task tracking platform but I'll send you guys invites for it.  
Here's what the gantt chart looks like. <https://view.monday.com/embed/1068854366-9fbc2a1db7bba73d7f3618c436ab6452?r=use1>  
Also make sure you guys are keeping your new status sheets up to date (name status sheet 2) cause that'll be due on Tuesday again

 Chase (Chay) 02/20/2021 @Austin New This Dr. Chapman correct? I've never had a class so I wanted to make sure it was the one you were talking about before I tell Dr. Tzeng to ask him. chapmro@auburn.edu  
Richard Chapman ^

Austin New 02/21/2021 Yeah thats it

February 21, 2021

 Chase (Chay) 02/22/2021 @Project Member Hey remember the status sheet is due tomorrow at 2 so make sure to have all your stuff filled out before then, currently no one has filled out there time and stuff at all.

 Chase (Chay) Yesterday at 1:56 AM Just a double reminder fill out status sheet week 2 not status sheet week 1 we have to fill out a different status sheet to track our weekly progress each week.

 Austin M Yesterday at 12:09 PM What are we supposed to fill in for page 2 under "refactor hours", "process hours", etc.? As in what goes in each

 Austin M Yesterday at 12:17 PM Im assuming "week" is the amount of hours we worked on the specific topic during the current week, and "cycle" is total hours so far this cycle

 Sarah Yesterday at 12:29 PM Yeah thats right @Austin M

 Chase (Chay) Yesterday at 12:30 PM There's a video on it, but it's just specifying what type of hours your work went into

 Chase (Chay) Today at 1:27 PM @Project Member Just a heads up I will hold off on creating the next status sheet since Chang doesn't want us do a status sheet record until after the cycle report. That being said we do have to have our cycle report finished and turned in by noon next monday. We don't present until that Friday though

 Chase (Chay) Today at 2:26 PM I'll also include below the sample cycle report on canvas and the past teams cycle 1 report.

 14-Sample\_Senior\_Design\_Cycle\_Report.docx 213.75 Kb

 Team4Cycle1Report.pdf 2.69 MB

 Chase (Chay) Today at 2:43 PM This is also a past teams Cycle 3 report so its more filled out since its the entire semester progress but it details stuff like the design phase pretty well

 15\_Cycle\_3\_Report-Sample\_1.docx 997.61 Kb

 Chase (Chay) Today at 4:35 PM @Project Member I am working on outlining the Cycle Report currently would you guys be down to meet later tonight maybe at 7 to discuss what all needs to be done and who is going to do what

 Sarah Today at 4:39 PM im down

 Austin New Today at 4:56 PM Sure

 Austin M Today at 6:50 PM Im sorry guys, but ive been feeling awful tonight can yall just decide what you want to do, and let me know what is left?

 Austin New Today at 6:51 PM sure man

 Chase (Chay) Yesterday at 5:56 PM Just a reminder @Project Member the report is gonna be due monday so we kinda need to get it done throughout the weekend. If you have any questions about your parts feel free to let me know and I can try and offer help. The sample reports that i linked earlier + the ones on canvas are good references though as well.

 1 

## Correspondence Between Team And Others

 Chase Dumbacher  
Mon 1/18/2021 6:54 PM  
To: Dennis Hong; Zack Smith; Ford Luttrell  
Cc: Austin Newkirk; Austin Mongold

Hello Team, 4,

We are currently Team 5 that has been handed the responsibility of finishing off the **Music Matters** Booking Project for Senior Design. Mike mentioned that you guys contacted the past team (Team 3) for info on where to start with the project so we thought it would be a good idea if we could setup some form of Zoom or Discord call with you guys to get the details on where the project left off and what specific technical details you guys might know about the project the Mike may not. If you guys could find some time to do this with us I can setup a discord call or a zoom meeting. Just let me know works best for you guys. Ideally, it'd be nice to meet with all of you but if only a few can make it we can work with that.

Thanks,  
Team 5

[Reply](#) | [Reply all](#) | [Forward](#)

## Source Code

### MMBS Github

|  |   |              |
|--|---|--------------|
|  .expo-shared                               | commit for cycle 1                                  | 5 months ago |
|  .expo                                      | Incremented version number for new testflight       | 16 days ago  |
|  .vscode                                    | commit for cycle 1                                  | 5 months ago |
|  Website                                    | Main Site Aesthetic Update                          | 6 days ago   |
|  assets                                     | commit#1112   | 4 months ago |
|  components                                 | commit for cycle 1                                  | 5 months ago |
|  docs                                       | commit for cycle 1                                  | 5 months ago |
|  functions                                  | final commit  | 3 months ago |
|  views                                      | Fixed the selected venue title on the Calendar view | 19 days ago  |
|  .DS_Store                                  | First push  | last month   |
|  .firebaserc                                | commit for cycle 1                                  | 5 months ago |
|  .gitignore                                 | commit for cycle 1                                  | 5 months ago |
|  .watchmanconfig                            | commit for cycle 1                                  | 5 months ago |
|  App.js                                    | Incremented version number for new testflight       | 16 days ago  |
|  Database.js                              | commit for cycle 1                                  | 5 months ago |
|  MMBS-The Path-Team 4 Schedule 9-...      | Add files via upload                                | 3 months ago |
|  Senior Design Cycle1 report.pdf          | commit#1112   | 4 months ago |
|  Senior Project Cycle 3(Final).pdf        | Add files via upload                                | 3 months ago |
|  Senior Project Design Cycle 2 report ... | commit#1112   | 4 months ago |
|  _firebaserc                              | commit for cycle 1                                  | 5 months ago |
|  app.json                                 | Incremented version number for new testflight       | 16 days ago  |
|  auth.json                                | commit for cycle 1                                  | 5 months ago |
|  babel.config.js                          | commit for cycle 1                                  | 5 months ago |
|  firebase.json                            | commit for cycle 1                                  | 5 months ago |
|  objects.js                               | commit for cycle 1                                  | 5 months ago |
|  package-lock.json                        | First push  | last month   |
|  package.json                             | First push  | last month   |
|  readme.md                                | Update readme.md                                    | 20 days ago  |
|  styles.js                                | Fixed the selected venue title on the Calendar view | 19 days ago  |
|  user_developer document.pdf              | Add files via upload                                | 3 months ago |
|  util.js                                  | commit for cycle 1                                  | 5 months ago |