Note

VenueViews.js

* File where homepage is

VenueViews2.js

* File where Venue button leads to
* It has been discovered the VenueViews and VenueViews2 are copied codes with minor changes

EventView.js

* File when clicking on a certain day of the calendar to create a new booking

DocumentationView.js

* File where the Generate Forms button view is
* Uses methods that are within the Index.js folder
* Connects the “ok” button to the methods from index.js (such as genereateSendSaveAll)

Index.js

* Found in functions folder
* Connects the handlers to do the Generate Forms functionality (email, google drive …)

Bug:

* Login where you double type the first letter for lowercase
  + Solution, make it not case sensitive? FIXED
* Venue titles are looking funky in the calendar view
  + Solution, removed the drop down function and figured out how the venue information was being passed to be able to display the current venue
* Firebase not updating information and Generating Forms crashing
  + Solution, to change the firebase permissions so that everyone logged in could change the database

Fixes:

* Removed Bookings and Document
* Removed random double calendar

Installs:

npm install firebase-admin --save

Notes for Firebase Cloud Functions:

* Before the project was on the Spark plan, which caused a lot of errors within the emailing code because they were using google cloud containers (which you had to pay for)
* Therefore we upgraded to Blaze plan (it was a process with verifying the billing account)
* Now running “firebase deploy --only functions”, we ran into more errors with it not recognizing firebase-admin, I tried everything and running npm install inside the functions folder was NOT the solution.
* The solution was right clicking node\_modules folder (which contains almost everything you need, such as firebase and googleapis and nodemailer) and deleting and then running “npm install”
* Then running the deploy command over and over until you install/fix each issue you run into, because sometimes npm install does not install Cheerio or “googleapis” which you need for this project.
* “firebase serve --only functions”
  + This command in the terminal (in the project directory) will test the functions and see if there are any errors
  + Note: When I ran this, I kept running into errors, especially with the env
  + Error: “Error: Port 5000 is not open on localhost, could not start functions emulator.”
    - Solution: Run “lsof -t -i tcp:5000 | xargs kill”
  + Error: “⚠ Your requested "node" version "10" doesn't match your global version "14" i functions: Watching "/Users/sarahpham/Documents/school/SeniorDesign/functions" for Cloud Functions...
    - Solution: Update Node to 14 in package.json inside the engine object

⚠ It looks like you're trying to access functions.config().drive but there is no value there. You can learn more about setting up config here: <https://firebase.google.com/docs/functions/local-emulator>

⚠ TypeError: Cannot read property 'web' of undefined at Object.<anonymous> (/Users/sarahpham/Documents/school/SeniorDesign/functions/handlers/driveHandler.js:6:61)”

* + - Solution: Run “firebase functions:config:get > .runtimeconfig.json”
    - This manually creates this json file **INSIDE** your functions directory, only run inside that directory
  + Error: GET request is bad
    - <https://github.com/firebase/firebase-tools/issues/2809>
  + NOTE: You need an emulator to use firebase serve
    - Run “firebase emulators:start”
* Functions were all still in Node 8 on Firebase, which was deprecated. So we deleted them and redeployed all the functions so that they could be updated to Node 10.
  + Error: Functions could not be deployed
  + Solution: deploying functions with debug and reading the firebase debug logs on all the GET requests
  + We read that there was an Authentification error while visiting all the GET request links and reading the returns
  + “firebase functions:config:get” returns the login information we have set for the google drive and gmail
  + We noticed that the gmail password was a random string of letters and changed it to the actual password
  + “firebase functions:config:set gmail.password=”pass”
  + Solution #2:
    - **Npm install --save-exact firebase-functions@[version] npm install --save-exact firebase-admin@[version]**
    - Run above command in functions folder and functions were able to be deployed
* Error:
* Sarahs-MacBook-Pro:functions sarahpham$ node index.js
* {"severity":"WARNING","message":"Warning, FIREBASE\_CONFIG and GCLOUD\_PROJECT environment variables are missing. Initializing firebase-admin will fail"}
* /Users/sarahpham/Documents/school/SeniorDesign/functions/node\_modules/firebase-admin/lib/database/database.js:88
* throw new error\_1.FirebaseDatabaseError({
* ^
* FirebaseError: Can't determine Firebase Database URL.
  + Solution:
    - Graphical user interface, text, application, Teams

      Description automatically generated
    - Passed through the databaseURL
* Error (from above):
  + {"severity":"WARNING","message":"Warning, FIREBASE\_CONFIG and GCLOUD\_PROJECT environment variables are missing. Initializing firebase-admin will fail"}
  + [2021-03-05T01:25:30.291Z] @firebase/database: FIREBASE WARNING: {"code":"app/invalid-credential","message":"Credential implementation provided to initializeApp() via the \"credential\" property failed to fetch a valid Google OAuth2 access token with the following error: \"Error fetching access token: Error while making request: getaddrinfo ENOTFOUND metadata.google.internal. Error code: ENOTFOUND\"."}
  + Solution:
* Google ([musicmattersbookings@gmail.com](mailto:musicmattersbookings@gmail.com)) app password
  + App pass : jjpilshypwifnjac
  + This password is a one-time pass that allows the NodeMailer to use [musicmattersbookings@gmail.com](mailto:musicmattersbookings@gmail.com) without running into 3rd-party auth issues.
  + Password found in the config.env   
    qzvwgnlwqhimhumw

Simulator Bugs (That only show on iOS simulator and not actual testflight device):

* After you login, and you got to the homepage, if you try to swipe backwards, you go to “Create a New Venue” page
* Clicking on a certain event and editing the name for example and then saving and going back does not actually save it
* Editing a venue does not open up the “Edit Venue” page like it would on an actual device

Deep Dive into “Artist Confirmation” and “Artist Invoice”

* Programmers: Chase and Sarah
* Generate Forms =>
  + The only functionality that worked when we initially started this project was the pdf’s being sent to the drive
  + Artist Confirmations
    - Solution: Redeploying all firebase functions, creating our own test function and calling certain methods within the generateSendSaveOne to test if the bug was inside the code
  + Artist Invoice
    - Note: Invoice is very similar to confirmations - we did not change any of the strings, this is how it was given to us
    - Solution: The bug was in the PDF builder where it was calling venue.address.toUpper(). This caused an error and prevented an invoice from being sent out

“Calendar”

* This initially did not work
* Ways of testing:
  + Taking “generateCalendar” and replace it in a method that we know works, so replacing generateArtistInvoice with generateCalendar.
  + After everytime we changed the code we had to redeploy the firebase cloud functions and wait to test
  + We tested if the Calendar will send to the Drive and the Email
  + We tested if the Calendar will work if we comment out the Email and just have it sent to the Drive
    - Result: The Calendar sent out to the Drive successfully, function did not return an error
  + We deleted all Events from the current month and tested it with the Email/Drive both inside the method
    - Result: We received an empty calendar on the email and the drive, that means the emailer is not where the issue is
  + We added back in some events with Email/Drive both still inside the method (tried both email/drive commented and uncommented, both produced the same result)
    - Result: We received an internal error, so that means that events are the issue, we noticed the generateCalendar was the only one using “events” from the database
  + We found that generateCalendarTable was the only one using “events”, so we looked further into the generation of the calendar, it was a bit confusing at how they were handling events. We put console.log functions everywhere so that it could print on the functions logs when we clicked on the “Monthly Calendar” button
    - Result: All the variables we logged got printed to the firebase cloud functions logs and we were able to

Emailing List, Sending Emails to Multiple Emails

* You can add multiple emails to a Venue when you edit or create it on the bottom
* Note: the emails are CASE SENSITIVE and will not send if a letter is incorrectly uppercase/lowercase
* Booking List and Calendar uses the emailingList

Ways We Could Refactor:

* Figure out if we need two pdf’s
* See if we could compress the pdf handlers in pdfHandler.js