Fermata

song. style. send.

The modern letter.

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Project Two Title: Fermata

Team Number:	2
Team Name:	Fermata Team

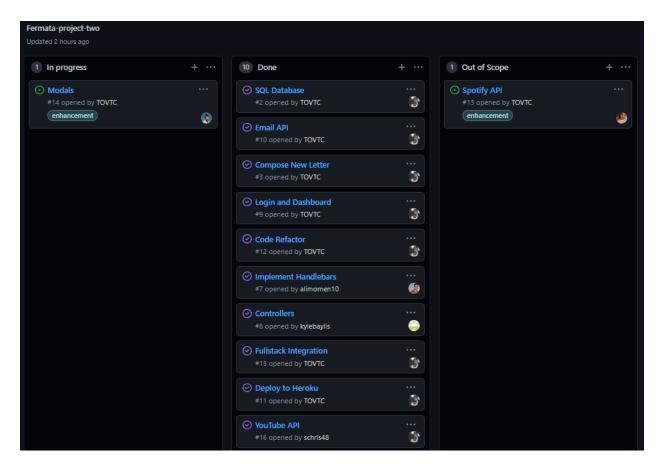
Team Members:

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Ali Momen	ali.momen@me.com
Veronica Tai Chi To	veronica.tc.to@outlook.com

Logo



Project Board Website Link and Screenshots



Our project board at the end of the project

The initial breakdown of tasks was as follows:

Ali: Creative Direction, HTML, CSS, Handlebars, Presentation

Veronica: Project Management, MySQL/Sequelize Database, Compose Letter Frontend JS

Kyle: API Routes

Sharon: 3rd Party APIs (Spotify + Email)

Lewis: Frontend Login/Logout JS, Dashboard JS

But tasks were reassigned and created as the project was developed

https://github.com/SCScbc-Projects2022/Fermata-project-two

Project Description (High Level):

Fermata allows you to compose a beautiful digital letter that is presented to a recipient with the background song of your choice.

Motivation

The first hand-written letter was sent in 500 BC by the Persian Queen Attosa. Since then the letter has been the source and glue to many love affairs, friendships, and bonds. Hand-writing a letter denotes care and consideration and receiving that letter breeds excitement and encourages a focus. Today, however, our modern forms of letter writing - tweets, DMs, Slack messages and even email - while convenient and instant, lack inspiration.

When you want to express love, remorse, joy, or sorrow, you want your recipient to not just read your words, but feel, see and hear them. Is there a way to make our modern letters feel special? There is, and that answer is Fermata.

Fermata is a musical term for a *pause* or a *suspension* and that's exactly what we want these letters to feel like.

User Stories

AS a USER who wishes to send someone a letter with music playing in the background

I WANT a website that connects with a streaming music service like Spotify, and creates a user profile for me

SO THAT I can compose and send a letter with a song, view my letter history and see my drafts

ACCEPTANCE TEST FOR USER STORY

```
GIVEN a homepage
WHEN I visit the site for the first time
THEN I am presented with options to log-in or sign-up
WHEN I click sign-up
THEN I am presented with a page with inputs for my name, email and an input
field to choose a password
WHEN I click next
THEN a user profile is generated and I am sent to a dashboard with a button to
compose a new letter and links to my letter history and drafts of letters I
have not completed.
```

THEN I am presented with a dashboard with a button to compose a new letter, links to my letter history, and drafts of letters I have not completed.

WHEN I click compose

THEN I am presented with a page titled YOU with inputs for my name and email WHEN I click next

THEN I am presented with a page titled THEM with inputs for the intended recipients name and email

WHEN I click next

THEN I am presented with a page titled SONG with a search bar to choose a song from Spotify

WHEN I revisit the site then I am prompted to enter in my email and password

WHEN I select my song and click next

THEN I am presented with a page titled STYLE with a list of fonts that can be selected to use in my letter

WHEN I click next

THEN I am presented with a page titled SEND with a text-field to compose the letter

WHEN I click next

THEN I am presented with a page titled PREVIEW with a preview of the letter with the song playing in the background

WHEN I click send

THEN the letter is sent to the recipient's email.

APIs to be Used (Projects One, Two and Three):

{list the Names, descriptions and URLs of the APIs being used for your project below, along with the reasons on why you are using it }

Resource	URL	HTTP Verb (GET, POST)	Action	Used For
Spotify API	https://develo per.spotify.co m/document ation/web-api /			
	https://develo per.spotify.co m/console/ge t-search-item /	GET	Search for item	Search for track to add to letter

	https://develo per.spotify.co m/document ation/web-api /reference/#/ operations/g et-track	GET	Gets spotify ID for track	Add song to letter
YouTube API	https://kaeru ct.github.io/p osts/how-to- use-the-yout ube-js-api-to- play-music-in -the-backgro und.html		Embeds a player that auto plays a video with specified video id	Spotify Failsafe

Libraries and Packages Used (Projects Two and Three):

- Bootstrap
- Materialize CSS
- MySQL
- Node.js
- Express.js
- Handlebars.js
- Bcrypt
- Express-session
- Connect-session-sequelize
- Express-handlebars
- Dotenv
- Mysql2
- Sequelize
- Uniqid
- Insomnia
- Heroku
- Nodemon

Minimum Viable Product (MVP) Requirements

- Ability to authenticate sign-up, sign-in
- Have a dashboard with links to create a new letter, view history, and open drafts
- Ability to compose a letter
- Ability to choose between a series of fonts
- Ability to pick a song with the Spotify API
- Ability to play the song in the background when composing and when recipient reads the letter
- Ability for recipient to send a new letter

Stretch Goals

- Include other streaming services
- Allow people to access their playlists and favourites
- Include more fonts
- Include Spotify and add working

Breakdown of Tasks (Ownership by Group Member):

Initial Breakdown:

Kyle: API routes

Sharon: Spotify and Email API

lwhere: Front end JavaScript (Login/Dashboard)

Ali: Front end design - CSS, HTML, Handlebars, presentation

Veronica: Project Management, Database, Frontend JavaScript (Compose Letter)

Final Breakdown:

Ali: Creative Direction, Concept + Branding, UI/UX + Mobile Responsiveness, Handlebars (Formatting), Custom CSS, Pitch + Presentation, Project Documentation

Veronica: Project Management, Frontend JavaScript, MySQL/Sequelize Database + Seeds, API Routes (Rendering: Final + Login/Logout), Handlebars (Rendering), Fullstack Integration, Heroku Deployment, YT Failsafe, Documentation

Sharon: Spotify API (she got authentication and refresh tokens working!!)

Kyle: API Routes (Core), API Routes (Rendering: Initial)

Lewis: Modals

Schedule for Completion of Tasks:

Date	Task	Notes
5/24	Brainstorming, Rough Project Outline	Logos, Mockup, MCV logic
5/25	Project Proposal	
5/26	Project Board	
5/27	Independent Coding	
5/28	Independent Coding	
5/29	Code Check In	13:00
5/30	Independent Coding, Asynchronous Code Check In	Reassign email API*
5/31	SITE SKELETON COMPLETE	19:00
6/01	Debugging + Middleware	
6/02	Presentation Draft Ready	
6/02	READY MVP	
6/05	PROJECT POLISH	

(Schedule was unfortunately very quickly abandoned, especially with the deadline change - the basic functionality of site - except modals and Spotify was complete June 5)

Schema

Model	Properties / Fields	Туре	Details
User	id	Integer	Auto Increment
	username	String	
	email	String	Is unique
	password	String	Bcrypt
Font	id	Integer	Auto Increment

	style_tag	String	Inline style code snippet for Handlebars template
Letter	id	Integer	Generated using npm uniqid
	user_id	Integer	
	sign_off	String	Name entered to sign off in mailto
	recipient_name	String	Name entered to greet recipient in mailto
	recipient_email	Email	
	letter_body	String	
	song_id	String	Clipped from YouTube URL
	font_id	Integer	
	readonly	Boolean	Determines whether letter is a draft or sent history

Associations (For Projects Two and Three Only):

A user has many letters A letter belongs to one user A letter has one font A font belongs to many letters

Validations:

No fields can ever be empty upon submission

New User

- First name (string)
- Last name (string)
- Email (email REGEX)
 - Non-duplicate in database

New Letter (on send)

• Recipient name (string)

- Recipient email (email REGEX)
- Song choice (string YT song ID)
- Font choice (integer name + value element)
- Letter body (max characters 255)

Access (read letter)

- Letter ID (uniqid for requested letter)
- Song ID (song id entered must match that of the requested letter)
- If a sent letter is accessed directly by link, it will redirect if the song id in localStorage is incorrect

Draft (readonly false)

• Users cannot access draft letters if not logged in

Migrations and Seed Information (Projects Two and Three Only)

Weirdly, users seeded into the database always return "incorrect password" but new users POSTed to the database can login just fine - unfortunately, there is not enough time to debug

User

id	username	email	password
1	username1	username1@email.c om	123456
2	username2	username2@email.c om	abcdef
3	username3	username3@email.c om	654321
4	username4	username4@email.c om	ABCDEF

Fonts

id	style_tag
1	"Caveat", cursive'
2	"Lato", sans-serif
3	"Merriweather", serif

Letters

id	user _id	sign_off	recipient_email	letter_body	song _id	font _id	read only
1tsl810l 3wa2sf 9	1	user1	recipient1@email. com	This is a letter from user1	8L0X uwPz mgU	2	True
1tslfrsl3 wa3y5x	2	user2	recipient2@email. com	This is a letter from user2	jUh0l 8iPP xl	1	False
31tslfn 8l3wa1l tr	1	user1	recipient3@email. com	This is a letter from user1	8Awj yOFi EQ0	3	True
1tsl30sl 3wa0u n8	3	user3	recipient4@email. com	This is a letter from user3	tG7w LK4a AOE	2	False
1tslah4l 4bu29h 9	4	user4	recipient5@email. com	This is a letter from user4	DUP sleQ LNU 0	2	False

		LETTER	l	
		id		
		sign_off		USER
		user_id	+	id
		recipient_name		username
		recipient_email		email
	•	letter_body		password
FONT		song_id		
id	+	font_id		
style_tag		readonly		

Wireframes:



sign in

sign up



Sign Up

Name:	
Email:	
Password:	

next



Sign In

Email:	
Password:	

sign-in



Compose

Drafts

March 24, 2022 - 8:45pm - To Jennifer

June 7, 2022 - 7:21pm - To Jennifer

History

March 24, 2022 - 8:45pm - To Jennifer

June 7, 2022 - 7:21pm - To Jennifer



You

Your name:

Your email:

hex?



Them

Their	name:	
Their	email:	

nexi





Song

Search:

next





Style

Caveat - airy, playful, heartfelt

Lato - elegant, simple, touching

Merriweather - strong, classic, refined

nex1



Send

Dear Kimberly,

Since the day we met, I have woken up with a feeling of the deepest gratitude for life.

I know this time away has been difficult but I wanted to share with you just how much you mean to me...

next

Now Playing:

Out Loud - Syd feat. Kehlani



Preview

Dear Kimberly,

Since the day we met, I have woken up with a feeling of the deepest gratitude for life.

I know this time away has been difficult but I wanted to share with you just how much you mean to me.

I never thought that I could feel with someone even when they're not with me. So even though we are apart, please know that I never feel away from you. You're always here with me, a thousand times a day, in my heart.

Love you,

Jeff

cend

Now Playing:

Out Loud - Syd feat. Kehlani



Dear Kimberly,

Since the day we met, I have woken up with a feeling of the deepest gratitude for life.

I know this time away has been difficult but I wanted to share with you just how much you mean to me.

I never thought that I could feel with someone even when they're not with me. So even though we are apart, please know that I never feel away from you. You're always here with me, a thousand times a day, in my heart.

Love you,

Jeff

reply

Now Playing:

Out Loud - Syd feat. Kehlani

Website "Components" and/or "Sections"

Common Components:

- Header with logo on left side that acts as a "home" button and tag line on the right side
 - Logo redirects to dashboard if logged in, if not redirects to homepage.
- If/Else a greeting and logout button if logged in, if not, add an href to access a Letter

Primary Views

- Root
 - Homepage
 - Option to go to login or signup page
 - Sign-Up
 - Fields for username, email, password
 - Sign-In
 - Fields for email and password
 - Dashboard
 - Option to logout
 - List of Draft items that redirect to that letter (editable) GET request/res.render()
 - Draft items can be deleted (button has value of letter id)
 - Each Draft has a data value of letter id and song id
 - List of History items that redirect to that letter (readonly) GET request/res.render()
 - Each Sent letter has a data value of letter id and song id
- Compose Letter Views
 - You
 - Field for your name saved to sessionStorage
 - Them
 - Fields for their name and email saved to sessionStorage
 - Song
 - Field to add a YT URL saved to localStorage
 - _

Style

- Radio buttons to select a font saved to sessionStorage
- Send
 - Textbox to capture letter body POST request when done
 - Plays music
- Confirm
 - A confirmation page with a button to redirect to dashboard
- Letter Views plays music
 - Draft autofills with data from database GET request/res.render()
 - Displays the recipient's name, email, and the sender's sign off name (to be used in mailto template literal)
 - Displays the recipient's letter in a large textarea in the middle of the page

- Options to save or send message PUT request
 - Draft becomes Sent when PUT changes readonly from false to true
- Drafts cannot be accessed by users that are not logged in
- Sent autofills with data from database GET request/res.render()
- Access
 - Fields to input letter id and song id
 - Access page will only redirect to requested Sent letter if song id matches that of the requested Letter
 - If a user attempts to directly access a letter by entering a link, it will redirect if the song id in localStorage does not match

Git Workflow, Website Directory Structure:

GIT Workflow

Production Branch Name: Main Development Branch Name: develop

All developers will create branches off develop according to the naming convention:

feature/title-initials bug/title-initials

- Developers will create branches off develop according to the naming convention
- Developers will Git Pull before beginning to code
- Developers will create a new branch to work on one feature/bug
- Developers will add a comment of the branch name they will be using to code an issue in the issue conversation thread
- All developers will create a pull request from their branch into develop
- Developers will not make changes to branches that they did not initiate unless a ticket issue is being transferred to another developer
- Developers must notify the team when they are prepared to make a pull request
- Pull requests must be made before merging with develop branch
- Once branches have been merged to develop, all developers must git pull
- Pull requests MUST be reviewed by review pair
- Final merge from develop to main will be reviewed by all group members

Code Review and Merge Requests

Due to the nature of how the project was developed and tasks reassigned, code reviews were not completed

Identify Name(s) of people doing code review and approving Merge Requests: (lists names here)

- Team members should "pair up" to perform code reviews and merge requests
- At the halfway point, new pairs should be recreated
- If there is an odd number of participants in the team, then the extra member can float between different pairs to code review,

Week One	Team Member	Team Member
Week Two		

Directory Naming and Structure; Filenames and descriptions Only list the important files and folders.

File Name	Function	Comments
server.js	Hosts express js and syncs database	
README.md		
package-lock.json		
package.json	Describes application dependences and commands	
LICENSE		
.gitignore	Prevents pushing files to GitHub	
sample.env	Sample .env file to host sensitive variables	Fill with personal variables

.vscode		
settings.json		
	config	
connection.js	Connects to MySQL	
	controllers	
index.js	Links all the different routes using router and defines pathnames for each as well has hosts homepage route	Routes at this level render views in handlebars
compose-routes.js		
dashboard-routes.js		
homepage-routes.js		
letter-routes.js		
controllers/api		
index.js	Links all the metadata routes using router and defines pathnames for each	Routes at this level handle metadata and API requests/queries
font-routes.js		
letter-routes.js		
user-routes.js		
	db	
schema.sql	Establishes MySql database	
models		
index.js	Defines the associations between models and exports them for use throughout the application	
Font.js		
Letter.js		
User.js		Contains bcrypt methods

public		
public/img		
fermata.png	Image for README	
fermata-2.png	Image for README	
Fermata-logos		Different variations, including blue, black, white, etc.
Fermata-logos_favicon.png	Favicon for site	
	public/javascript	
main.js	Dynamically generates greeting text and handles logout logic	
sign-in.js	Handles validation and POSTs new user	
sign-up.js	Handles validation and POSTs a new sign in to start express.sessions	
draft.js	Is a GET request for a specific letter and can perform PUT requests to save changes or to change a Draft to readonly, triggering the mailto option	Autoplays music - cannot access drafts if not logged in
sent.js	Is a GET request for a specific letter and renders those fields on the page	Autoplays music - cannot access sent letter if localStorage song id does not match that of the requested letter
access.js	A buffer page between a recipient and a sent letter to increase engagement (for autoplay to work) and to set the song id in local storage (so the iframe will load)	
dashboard-draft.js	Handles delete draft functionality and redirects to draft, while setting the song id to local storage	

dashboard-sent.js	Handles redirect to sent letter while setting the song id to local storage	
	public/javascript/compose-letter	
you.js	Captures sender's name	For mailto template literal
them.js	Capture's recipient's name and email	For mailto template literal
song.js	Capture's YT URL and clips the song id to save to localStorage	
style.js	Captures font id from selected radio input	
send.js	Captures letter body	Autoplays music
	public/stylesheets	
style.css		
	seeds	
database-test.js	Tests the join logic of models and console logs SELECT	
index.js	Executes seeding of database on "npm run seed"	
font-seeds.js		
letter-seeds.js		
user-seeds.js		
utils		
auth.js	Custom middleware to redirect user to homepage if not logged in	Used for dashboard and compose letter routes
helpers.js	Contains date formatting for Handlebars	
views		
access.handlebars		
confirm.handlebars		

dashboard.handlebars	Dynamically renders two lists of letters (drafts and sent) depending on readonly property	
draft.handlebars		
homepage.handlebars		
send.handlebars		
sent.handlebars		
sign-in.handlebars		
sign-up.handlebars		
song.handlebars		
style.handlebars		
them.handlebars		
you.handlebars		
views/layouts		
main.handlebars		
documentation-and-additionals		
additionals/feature	Contains Lewis's unintegrated modals	There are two versions, a jquery + bootstrap version and a CSS + JS version
additionals/sandbox	Contains Ali's first draft of the site's layout in static HTML pages	
additionals/spotify	Contains Sharon's first attempt at the Spotify API using PHP	
additionals/spotify-node	Contains Sharon's second attempt at the Spotify API using npm spotify-web-api-node	
fermata-proposal.pdf	Contains the completed documentation for the project	First version on project start, final version on project end

additional images	Contains Ali's example music images for the demo	Demo video here: https://drive.google.com/drive /folders/1O9ipDl5nzW2gf0zex IAi3e8is9b8CXaN?usp=shari ng
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"Stuck Time" Agreement:

The team must identify and agree to a time frame that a team member must use as a limit before reaching out to (a) fellow team members and then (b) the instructional team (in-class) for support. That way, no one should be stuck for 'days' or 'many hours' on a task.

We the team members of <u>(insert project team number or team name here)</u> agree that the following period of time of investigation (with evidence) is allowed before identifying themselves as being "stuck" or "bottlenecked", in which case, the team member can then seek the assistance of other team members, the instructional team, or AskBCS for assistance.

Period of time permitted before asking to seek assistance (hours): 2 hours

As agreed upon by the following team members (name and signature below)

Name	Signature
Ali Momen	
Sharon Christensen	S. Christensen
IWHERE IFEANYICHUKWU LEWIS	I.C.I
Kyle Baylis	Kar-



Retrospectives – To Be Handed in At the Project Midpoint

Each team is to hold a *retrospective* meeting at the half-way point of the project period. Retrospective tentatively scheduled for: May 31st

Retrospective not completed.

GitHub Repository Link, Production Website Link Submission Dates

- Presentation Date June 2
- Project Submission Due Date June 10
- Ideal Submission Date June 5

Additional Notes: