TimeBridge Calendar

Group Members:

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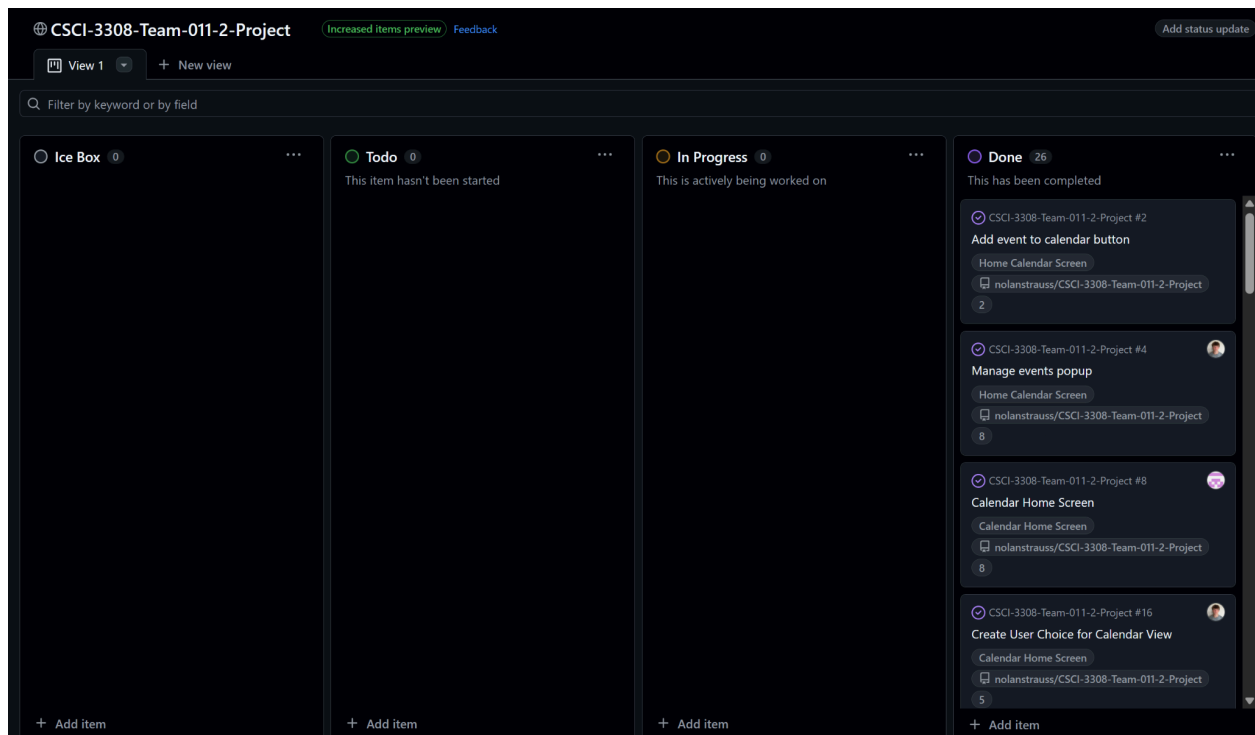
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Project Description:

Timebridge is a simple calendar where users can create, send, and manage events while inviting others to these events. Recipients of invitations as well as the event creator receive an email upon initially creating the event, as well as another reminder at a time the creator sets. After creating the event, it appears on the creator's, as well as any recipients', calendar pages. At any point, the user may download a ".ics" file of their calendar to share with others or transfer onto another online calendar. On the home page, an interactive calendar shows every active event the user has, and they may organize it by viewing a specific day, week, or month. Events are shared between users by email, and through our UI if they have an account. Users must register for an account before logging in, and the registration only allows emails as usernames. The settings page allows users to alter their username or password, log out, or delete their account altogether. The creator

of an event can include a link for the recipients to follow from the emails they receive, adding functionality for *Zoom*, dinner reservations, movie tickets, and other events that connect people.

Project Board:

Demonstration Video

GitHub Repository

Contributions:

Nolan Strauss: I contributed to the front end styling of our webpage a lot, using handlebars to amplify the look of the pages. I also used javascript and handlebars to create and style the nav

bar, making it able to work with a mobile page, as well as a desktop. I implemented interactive buttons and dropdown menus, and worked with the databases to some degree in accomplishing the settings page, and working in the manage events screen–making sure all features worked well in both.

Micah Gagerman: I contributed by setting up nodemailer with Brevo API to allow for emails to be sent to listed users. I abstracted the emailing services into a custom module, so it was easy for me to implement it into the server. The emailing service sends emails to all listed users upon creation of an event, as well as a reminder email at user specified time before the event occurs. This process involved me creating html/css templates for "Create Event" and "Event Upcoming". I tested the email module to ensure it worked properly. I created a simple 404 page.

Caroline Steely: I contributed by organizing and maintaining the storage of our data in the database through creating schemas and writing PUT, GET, and DELETE requests, ensuring data integrity. I performed integration and user testing, focusing on the user story to drive the structure of the application. I set up and organized the testing files that used mocha and chai to run tests that the team wrote. I maintained the project board and took notes for the weekly meeting logs. I added error handling for improper data inputs and alerts where necessary.

Charbel Adwan: Implemented a /calendar/ics endpoint using the ics NPM library to export Postgres events as .ics files for Outlook, Google Calendar, and Apple Calendar. Redesigned the month view calendar to display events below each day number and Prev/Next navigation buttons. Events appear as clickable Bootstrap badges that open modals presenting full details and enabling users to edit date, time, description, link, reminder settings, and attendee lists or deletion. Added conditional logic to hide the navbar on the welcome page, which features a custom background and a prominent Register button. Removed unnecessary buttons and refined styling for a cohesive experience.

Hayden Martin: I formatted the initial API routes for most pages, and added functionality for creating and deleting specific events, ensuring that all data added would correctly represent the inputted event. This includes storing and removing the information on the PostgreSQL database and retrieving this information when the user arrives at a specific page. In addition, I formatted the pop-up for creating events on the homepage and the table displaying events on the Manage Invitations page. Furthermore, I formatted the elements in the database to match the needed date specifications for the Brevo API.

Tyler paccione: I contributed by developing key user interface components and enhancing the overall user experience. I implemented dynamic features on the login page that include client-side validation and clar error messaging, ensuring that users receive appropriate feedback when their login credentials are incorrect. Additionally, I designed and coded the calendar views,

integrating a toggle that allows users to switch seamlessly between month and week views. This involved writing interactive JavaScript functions for dynamic calendar generation, as well as integrating Bootstrap for responsive styling.

Use Case Diagram:
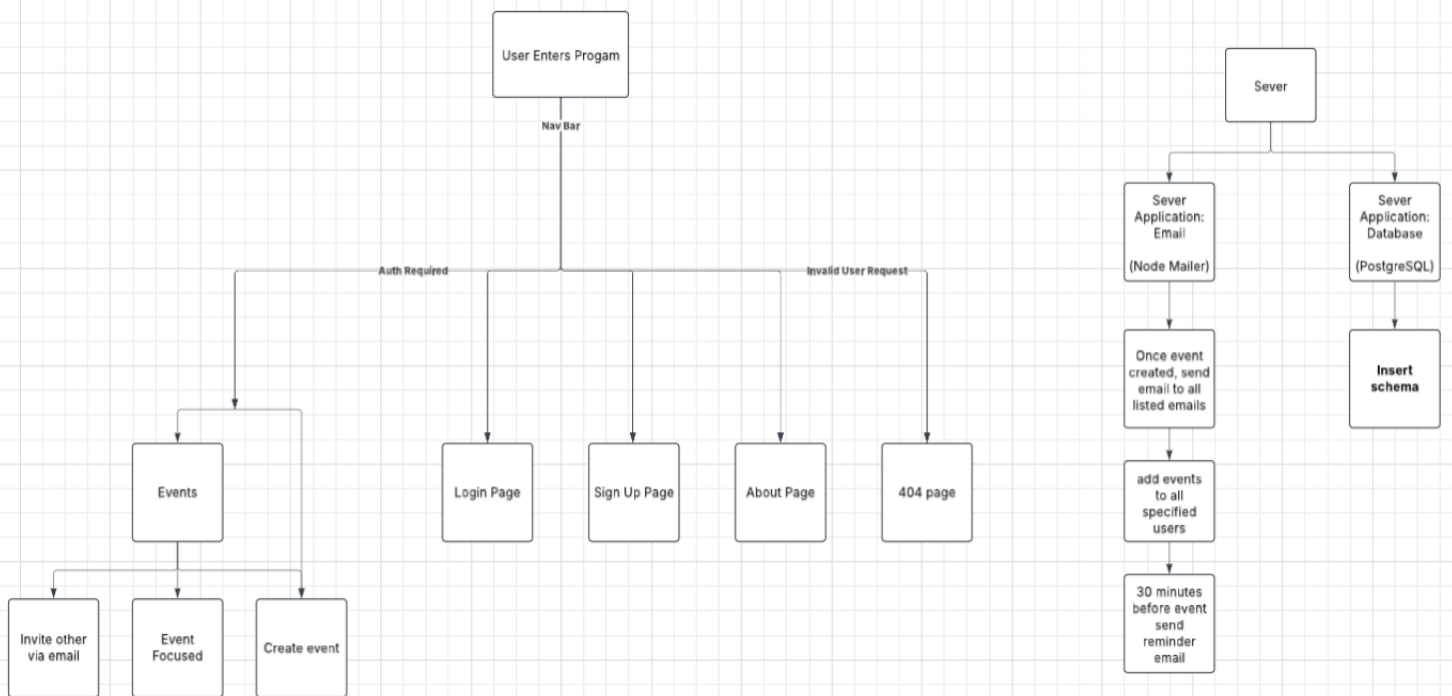
Initial Wireframes:

Login Page:

TimeBridge Calendar Login

Username/ email

Password

Register

I

Home Page:

TimeBridge: Online Calendar   Manage Invites   Log out

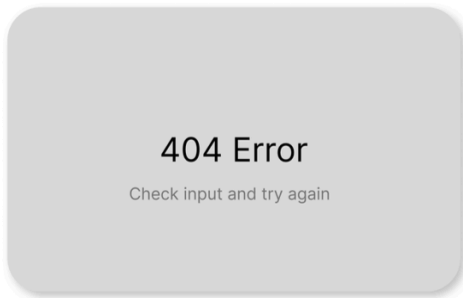| MON	TUES	WED	THURS	FRI	SAT	SUN

Registration Page:

TimeBridge Calendar Registration

Email

Password

Re-enter password

Register

404 Error

Check input and try again
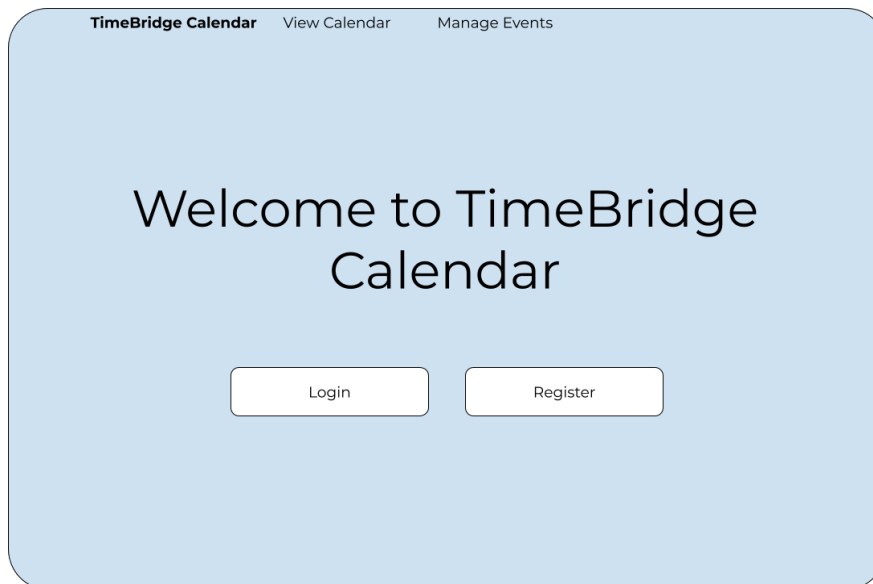
Updated Wire Frames (after further discussion of needed features):

Welcome page:

TimeBridge Calendar　　View Calendar　　Manage Events

Welcome to TimeBridge Calendar

Login　　　　Register

Login page:

Login

Username:

Password:

If you don't have an account, Register

Login

Registration page:

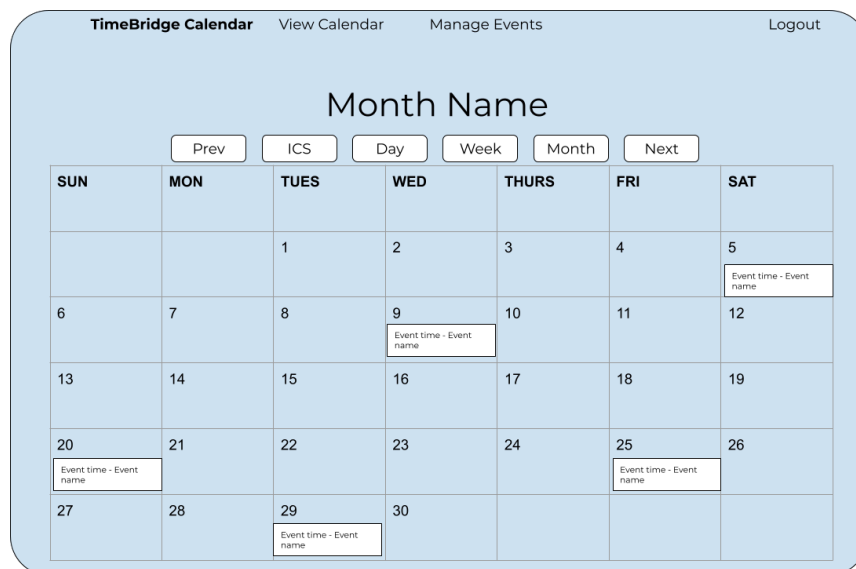**TimeBridge Calendar**   View Calendar   Manage Events   Login
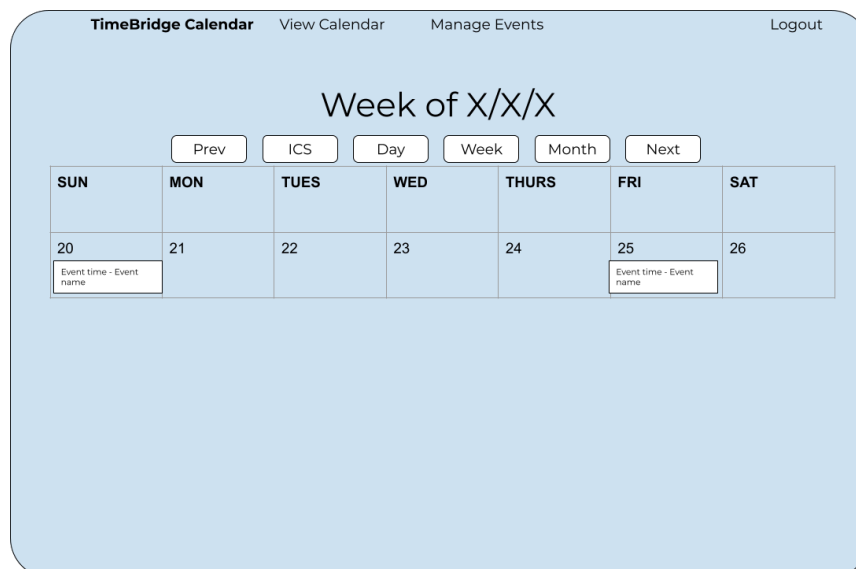
Register

Username:

Password:

Confirm Password:

Login

Calendar homepage (month view):

Month Name

[Prev]   [ICS]   [Day]   [Week]   [Month]   [Next]

SUN	MON	TUES	WED	THURS	FRI	SAT
		1	2	3	4	5 Event time - Event name
6	7	8	9 Event time - Event name	10	11	12
13	14	15	16	17	18	19
20 Event time - Event name	21	22	23	24	25 Event time - Event name	26
27	28	29 Event time - Event name	30			

Calendar homepage (week view):

Week of X/X/X

[Prev]   [ICS]   [Day]   [Week]   [Month]   [Next]

SUN	MON	TUES	WED	THURS	FRI	SAT
20 Event time - Event name	21	22	23	24	25 Event time - Event name	26

Calendar homepage (day view):

Week of 2/20/2025

| Prev | ICS | Day | Week | Month | Next |

SUN

20

Event time - Event name

Event time - Event name

Event time - Event name

Manage invitations page:

Upcoming events:

	Name	Date	Time	Desc	Delete Event
1	Event Name	X/X/X	12:00PM	Description of event	Delete Event
2	Event Name	X/X/X	12:00PM	Description of event	Delete Event
3	Event Name	X/X/X	12:00PM	Description of event	Delete Event

Settings page:

TimeBridge Calendar   View Calendar   Manage Events   Logout

Settings

Change Username: [   ]

Change Password: [   ]

[Logout   ]

[DELETE ACCOUNT   ]

Testing Results:

Feature 1: User Registration
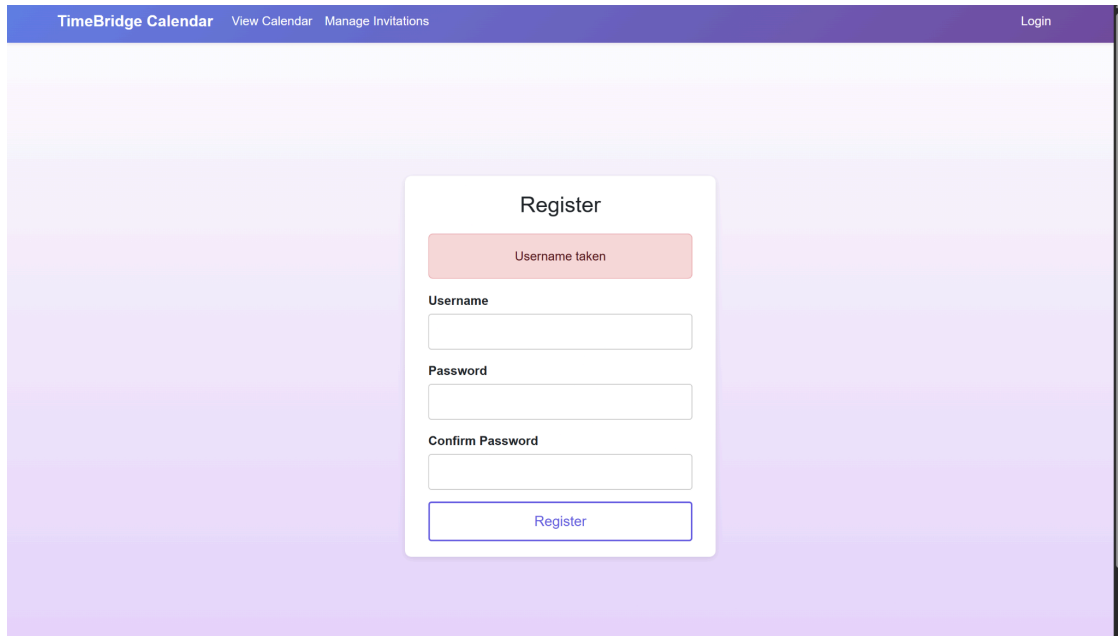
Observations

- Setting up tests to verify correct storage of data initially broke functionality, though this was later fixed.

- The error message is located on the card of the registration page, directly above all inputs.

- Most users did not encounter any error message upon utilizing the program as intended.

- Slight confusion related to username criteria, which could be implemented if time permits.

Test Results

- User data correctly stored in users table

- Error messages properly displayed under error conditions

Feature 2: User Login

Observations

- Login with valid credentials works correctly in all cases.

- Users entering incorrect password with correct username properly displays error message and redirects to login page.

- Entering invalid username redirects to the registration page instead of the login page with an error message.

- Users slightly confused at the purpose of the moving login button

- The error message is more noticeable in the login page than the registration page

Test Results

- Session is created for valid logins.

- Error messages are displayed when entering incorrect credentials

Feature 3: Calendar Event Retrieval

Observations

- Real users never encounter the case of accessing a calendar without logging in, under normal circumstances.

- Users are able to view their upcoming events without any issues, and all events are retrieved.

- Users attempting to access the calendar through irregular circumstances are always redirected to the welcome page.

Test Results

- Events are retrieved from the events table for logged-in users.

- Users without events are shown proper UI.

- Unauthorized users are redirected to the login page.

Deployment:

https://csci-3308-team-011-2-project.onrender.com/