Feature plan:

For the users:
- Sign up/log in:

The user will go to the login page through the login button located on the top right corner of the home page or the one below the register button on the left hand side of the home page. The user can access the register page through the register button on the left hand side of the home page.

After that, the user will input their email address and the password for login. On top of the email address input box, a red message will appear if the inputted password or email address does not match any of the stored one within the data bases.

On the register page, the user will be required to input their first name, last name, email address and password. Additionally, a confirmed password input box will be present for confirming the password. The user's information will be stored in the data base afterwards.

- Manage their user information:

After logged in, the login button on the right side of the header will be replaced by the name of the user (first name + last name). The user will be directed to their profile when clicked. First name, last name, email address and password can be changed at the profile page with textbox inputs and buttons.

- Create a new event.

The user can create a new event on their calendar page when clicked on a specific date. The user can then specify their event's name, and description with the textbox inputs, then pressing the "create event" button, a new event will be added to the user's calendar.

- Generate a link for people without accounts.

After creating an event, there will be a popup that contains an invitation link for others. Additionally, this popup will also show up if the user clicked on the added event on their calendar.

- Specify their availability for an event.

The event name, date, description will be showed to others. They can then state the time they are available, and will be required to input first name and last name if not logged in. If they are available, then they should click the available button. If they are unavailable, then they do not need to input anything, and just has to click the unavailable button.

- Link their calendar to automatically check their availability.

Additionally, on the availability page, users can use APIs to link to external calendars, such as google calendar, to check their availability for this event.

- See times when everyone is available for an event.

On the popup that shows up after created the event, and clicked on the event on the user's calendar, a link is provided that will be opened in a new window. A list of people who stated their availability will show in the new page, additionally if nobody stated their availability, it will display a message to notify the user.

- Confirm/finalise an event time.

Also on the popup, there will be two input boxes for inputting the time of the event. After inputting the time, the user can click the "Finalise event" button to finalise their events.

- Add the finalised event to their calendar.

The event status on the user's calendar will update on their calendar, additionally, the finalised event will be added to users who own an account and stated their availability for the event date.

For the system admins:

- Manage their user information:

The admin can go to the Admin profile page for changing their information.

- Manage Users.

The admin will be directed to the Admin management page where the user database will be fetched and then the admin can manage the users from there. The admin can edit and change the users and push the changes to the database.

- Manage Events.

The admin will be directed to the same page as above and the events database will be fetched this time, and then the admin can manage the events from there. The admin can edit and change the events and push the changes to the database.

- Sign-up other Admins.

The admin will be directed to a sign-up page like the user register page to register for other admins, but it takes username instead of first name and last names.

Additional functions:

The user can change the year and months of the calendar.

A home button for returning to the main page or the calendar page for logged in users.

Created events and joined events shown as a list on the right hand side of the calendar. Or the button side of the calendar if viewed on mobile.