EC4307: WEB APPLICATION DEVELOPMENT

WEB-PROJECT ERD AND MOCK UI

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PROJECT: EVENTS MANAGEMENT AND RSVP SYSTEM AS A WEBSITE

Project Overview

The RSVP Event Management System is a web-based platform designed to streamline the process of organizing and managing events, sending invitations, collecting RSVPs, and gathering post-event feedback. It empowers users to create events, select recipients, and automate reminders, while attendees can easily respond and share feedback. The system addresses a common day-to-day challenge: the inefficiency and confusion involved in manually tracking event responses and follow-ups, especially for personal gatherings, meetings, or community events. By digitizing this workflow, it ensures clear communication, improved planning, and a smoother event experience for both organizers and participants.

Data Requirement and Database Structure Analysis

The RSVP Event Management System requires a structured relational database to efficiently manage user accounts, events, invitations, reminders, and feedback. The core data entities include users, who register with a unique email and can create events. Each event stores information such as title, date, location, and is linked to its creator. Invitations are tracked per event and recipient, along with their RSVP status. Organizers can set multiple reminder intervals for events through the event_reminders table. Additionally, attendees can provide post-event feedback, which is associated with both the user and the event. This schema ensures data integrity through foreign key relationships and supports all functional aspects of the system.

Relational and Entity Relationship Diagrams (ERD)

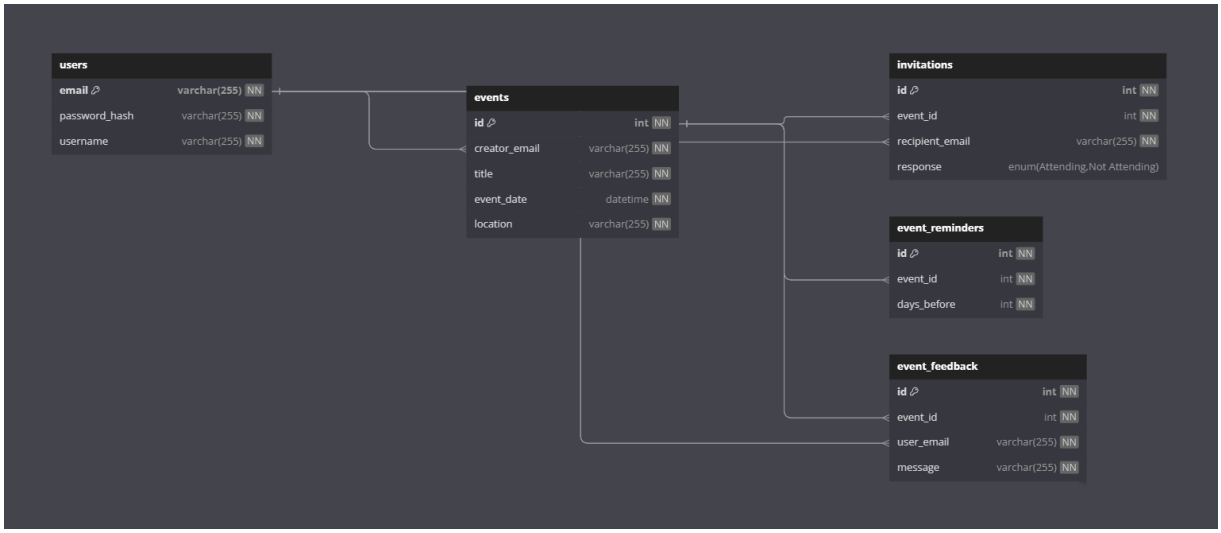


FIGURE 1 : RELATIONAL SCHEMA DIAGRAM OF PROPOSED DATABASE

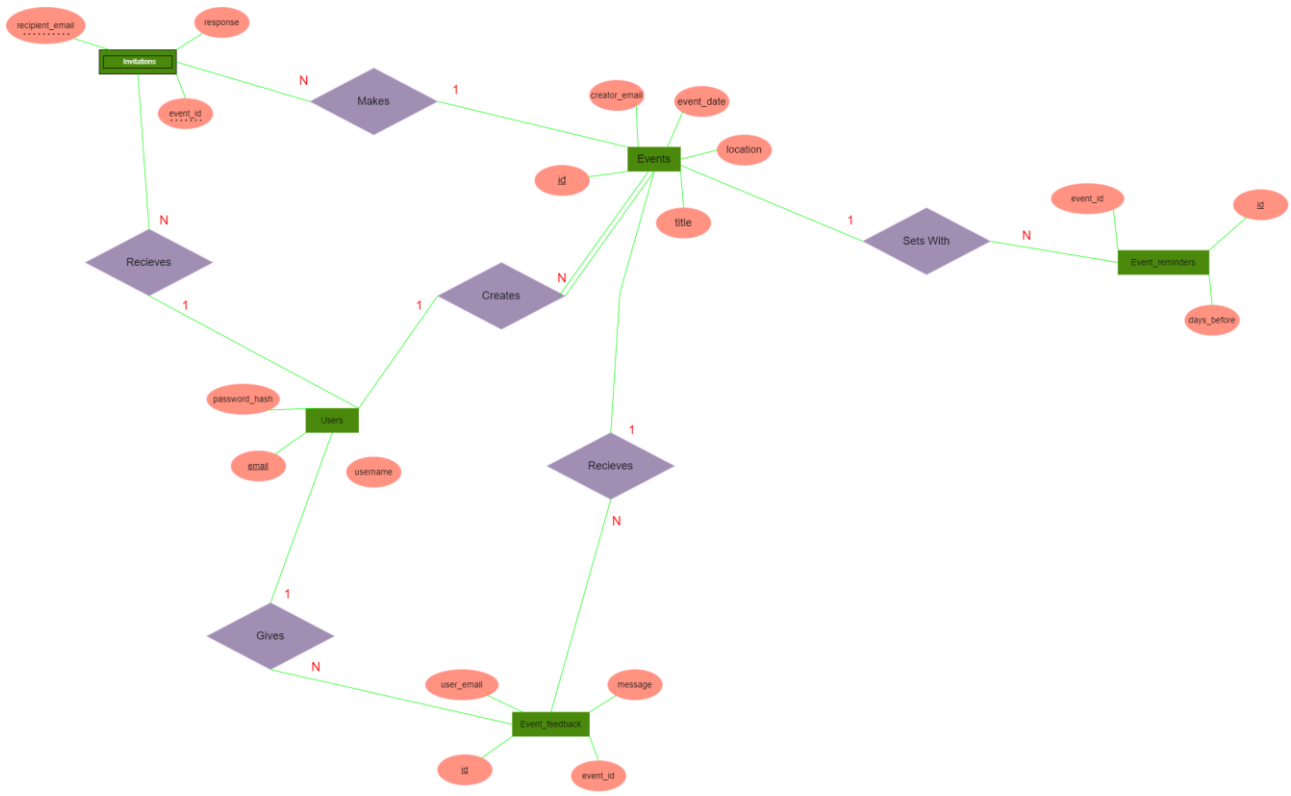


FIGURE 2 : ENTITY RELATION (ER) DIAGRAM OF PROPOSED DATABASE

A clear view of the diagram can be seen in following link

Link: https://drive.google.com/file/d/1dOmY4IqZrPhEK2jisEbj5YAtlhwMxxl_/view

Database Structure in Database Markup Language (DBML)

```
Table users {
  email varchar(255) [pk, unique, not null]
  password_hash varchar(255) [not null]
  username varchar(255) [not null]
}

Table events {
  id int [pk, increment, not null]
  creator_email varchar(255) [not null, ref: > users.email]
  title varchar(255) [not null]
  event_date datetime [not null]
  location varchar(255) [not null]
}

Table invitations {
  id int [pk, increment, not null]
  event_id int [not null, ref: > events.id]
  recipient_email varchar(255) [not null, ref: > users.email]
  response enum('Attending', 'Not Attending') [default: null]
}

Table event_reminders {
  id int [pk, increment, not null]
  event_id int [not null, ref: > events.id]
  days_before int [not null]
}

Table event_feedback {
  id int [pk, increment, not null]
  event_id int [not null, ref: > events.id]
  user_email varchar(255) [not null, ref: > users.email]
  message varchar(255) [not null]
}
```

Mock UI

All Pages View

A Mock-UI was developed by using Figma and it's all pages view is shown below.

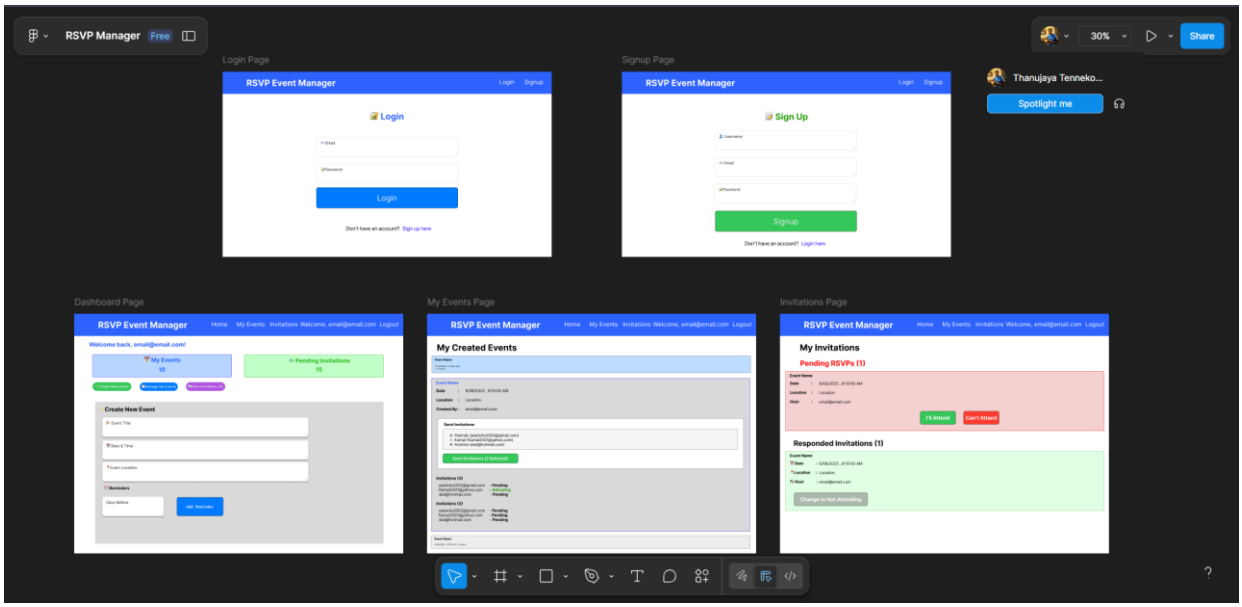


FIGURE 3 : ALL PAGES VIEW OF MOCK UI

Login Page

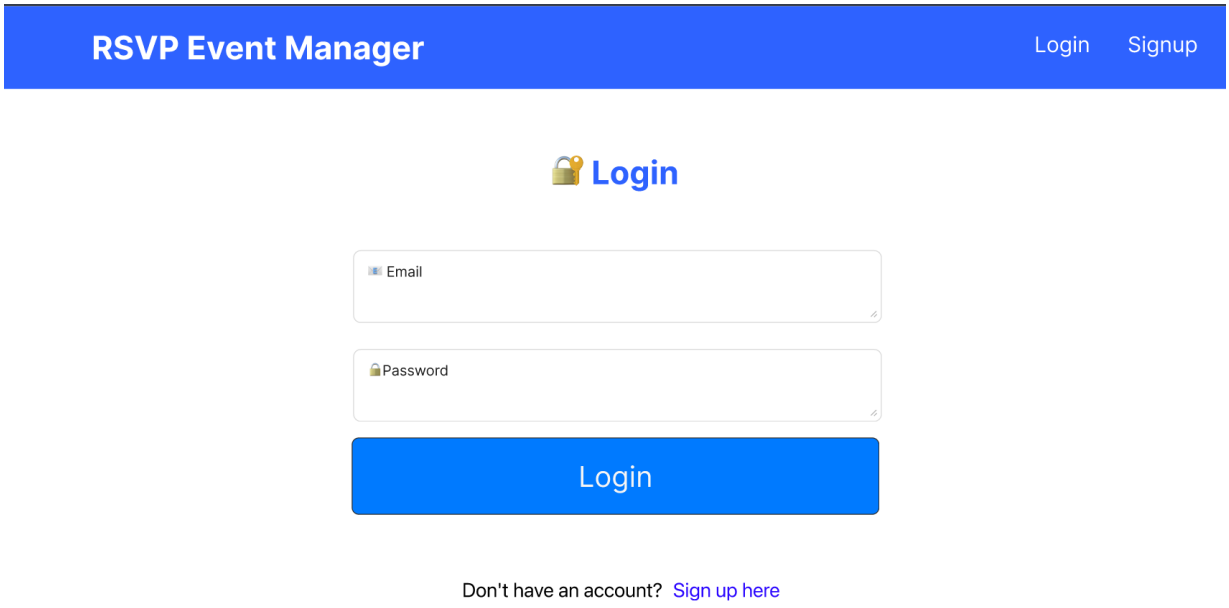


FIGURE 4 : LOGIN PAGE

Signup Page

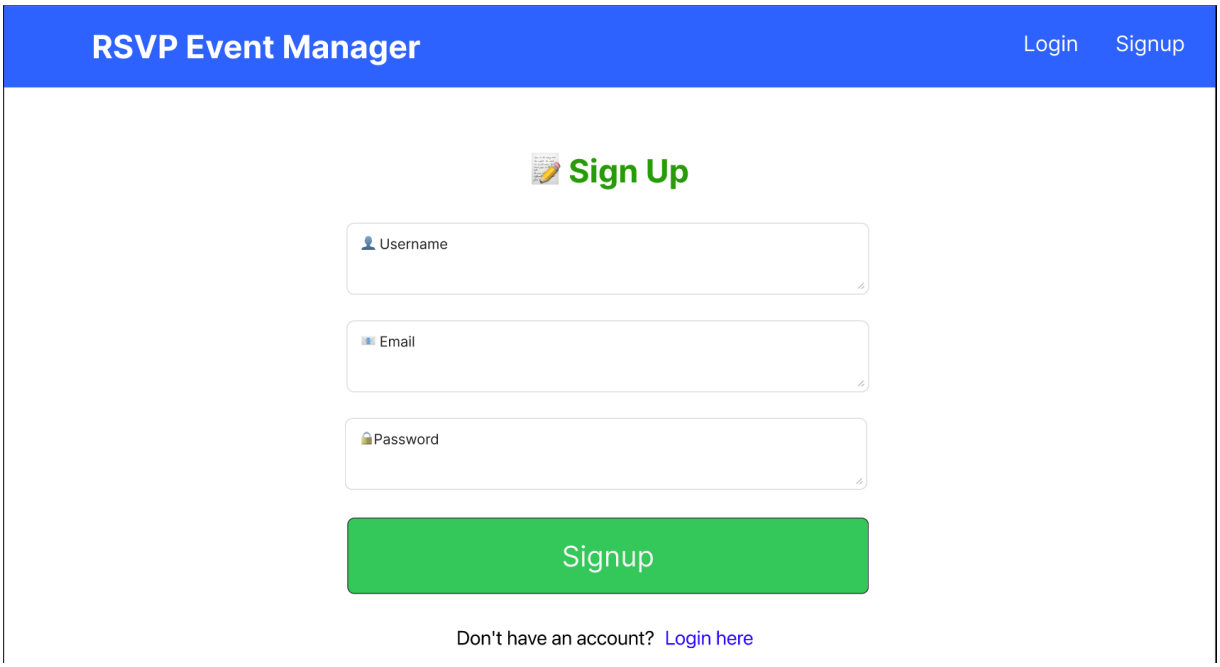


FIGURE 5 : SIGNUP PAGE

Dashboard

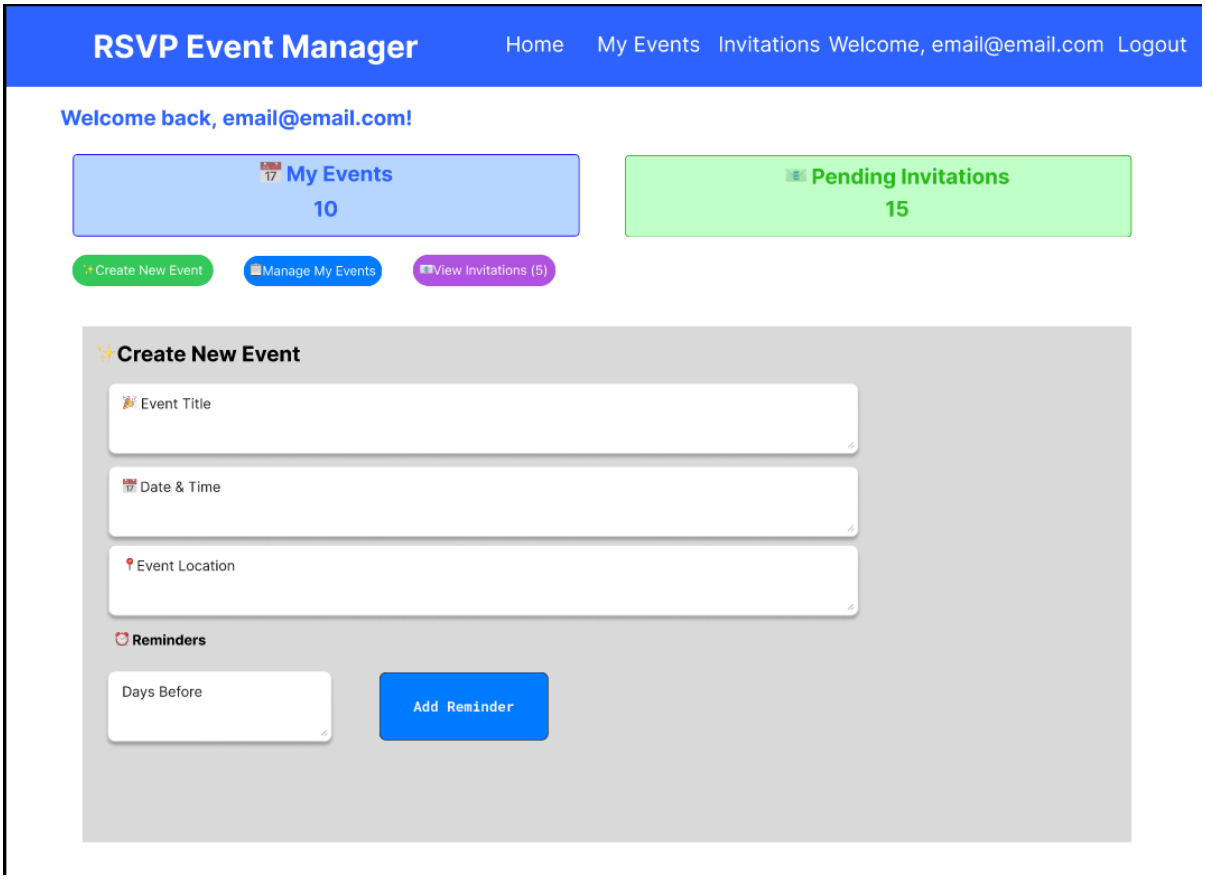


FIGURE 6 : DASHBOARD

My Events Page

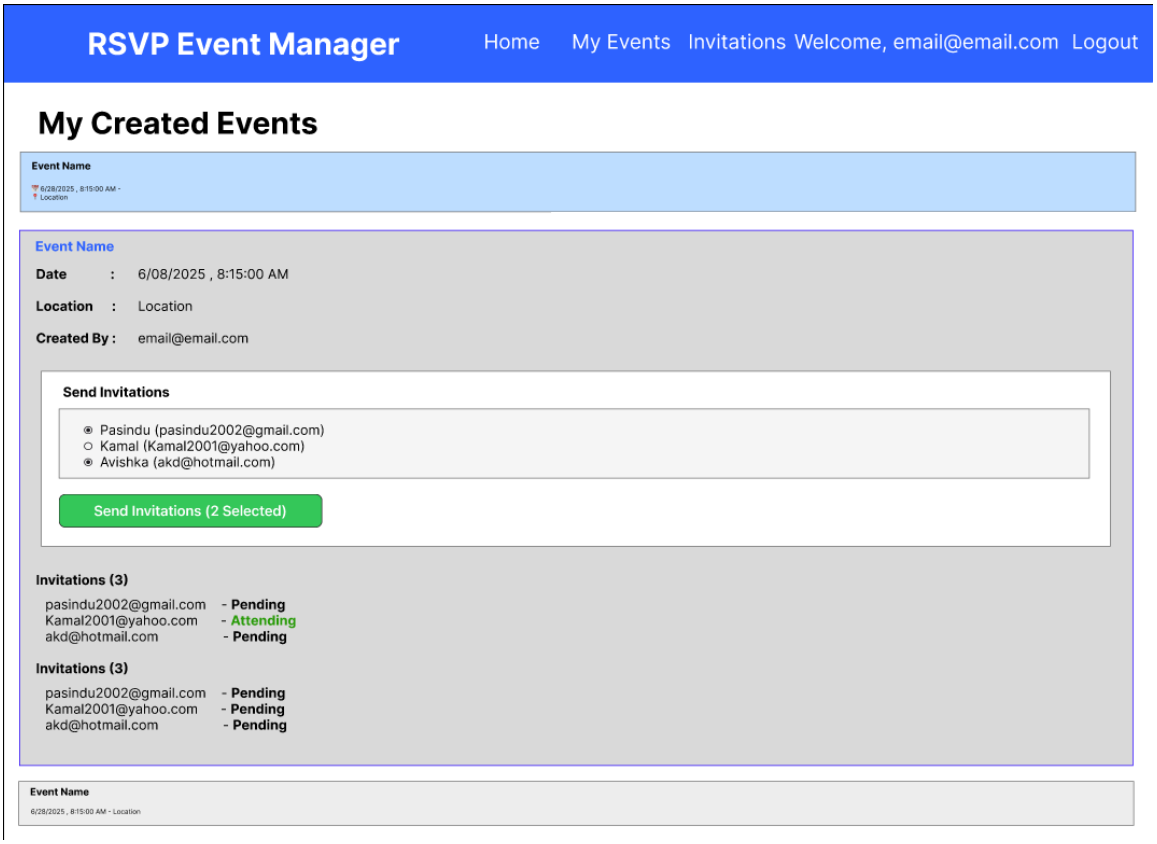


FIGURE 7 : MY EVENTS PAGE

Invitations Page

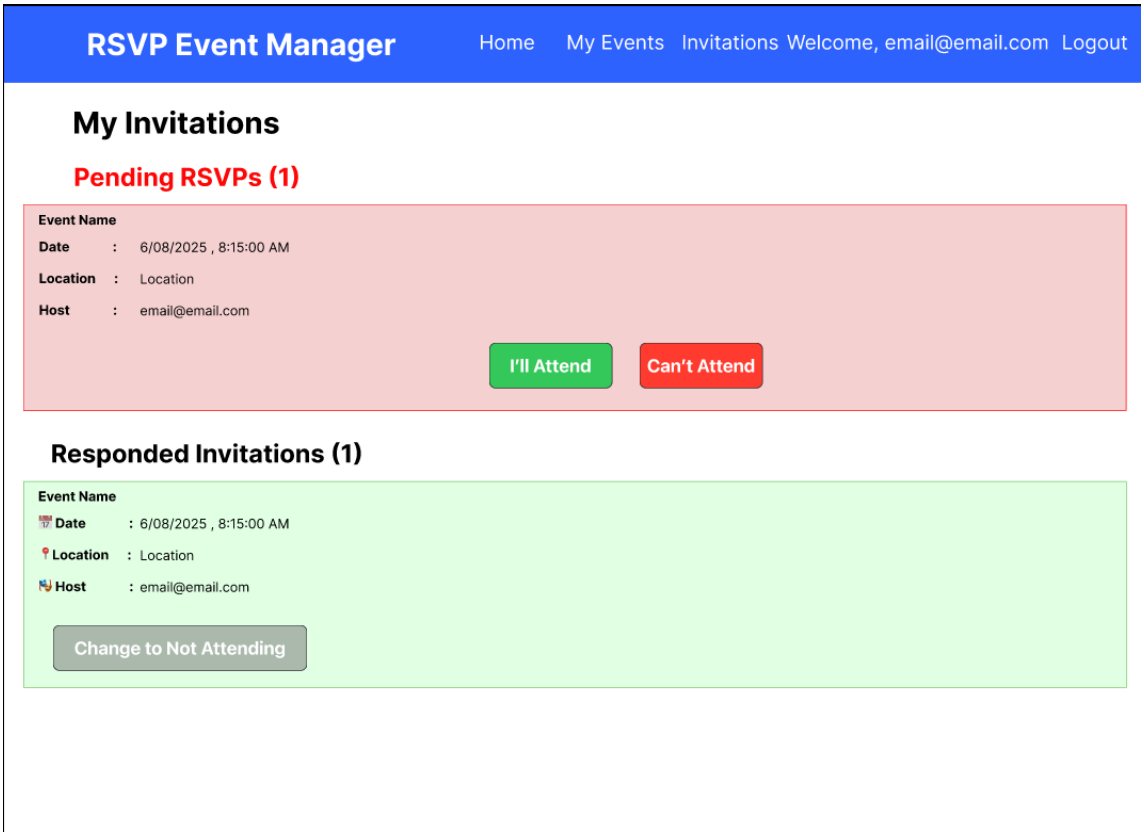


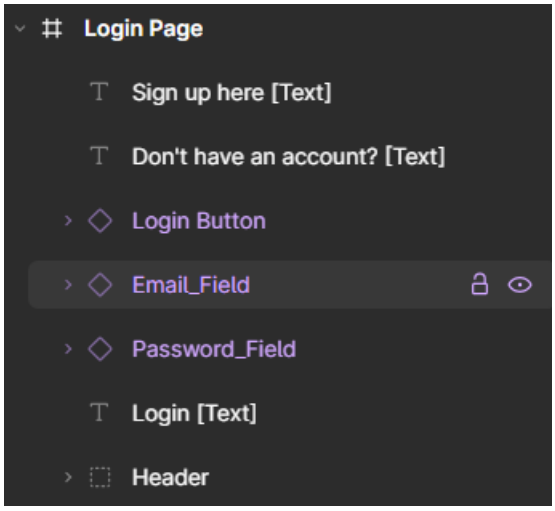
FIGURE 8 : INVITATIONS PAGE

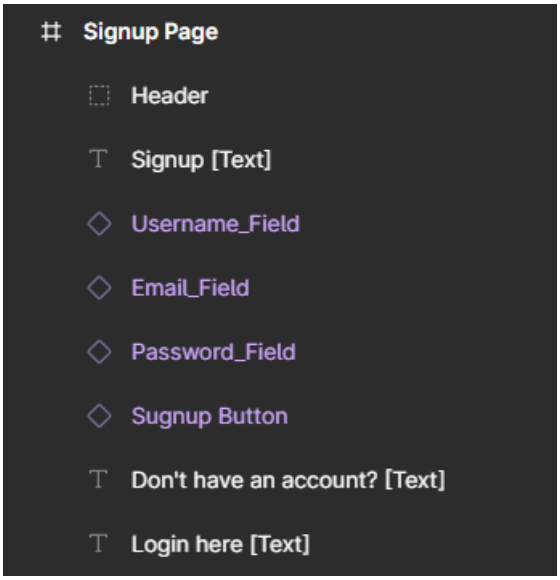
Figma Links

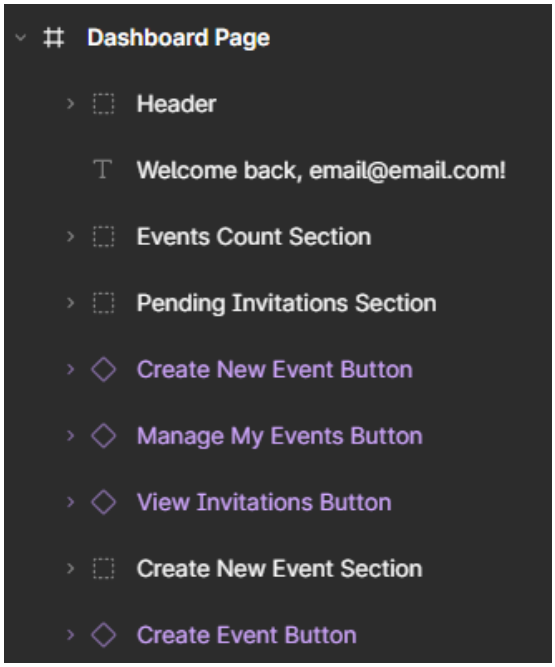
Dev Mode Link: https://www.figma.com/design/tPD5b8dJZu3frMwAZlf6Y4/RSVP-Manager?node-id=7-99&m=dev&t=SjBb9L7ll9XBcCIK-1

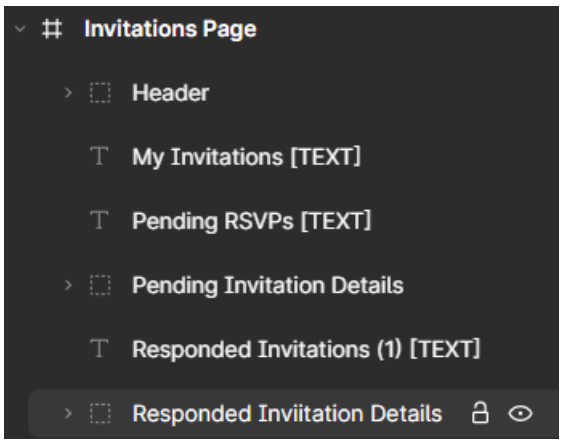
Prototype Link: https://www.figma.com/proto/tPD5b8dJZu3frMwAZlf6Y4/RSVP-Manager?node-id=7-99&t=SjBb9L7ll9XBcCIK-1

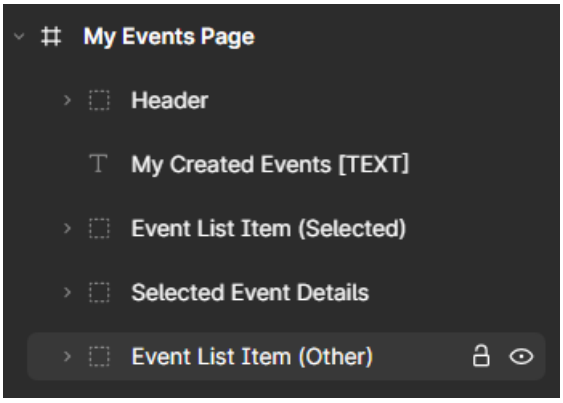
Figma Pages, Layers and Components Structure











Appendix

Github Repository Link : https://github.com/Thanu10ekoon/4307

Hosted Beta Website : https://rsvp-web-gamma.vercel.app/