

# 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)

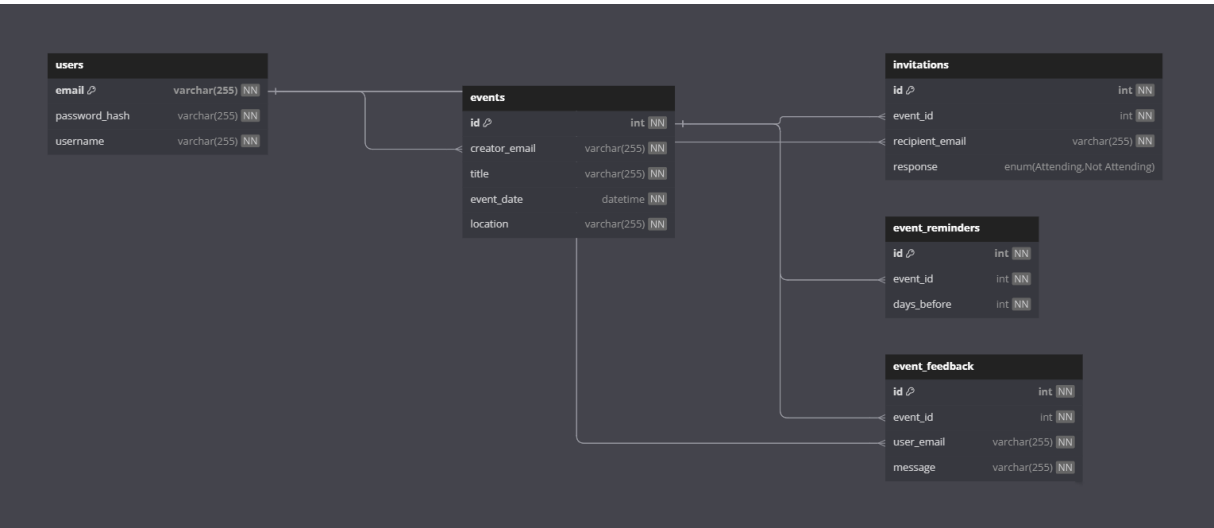
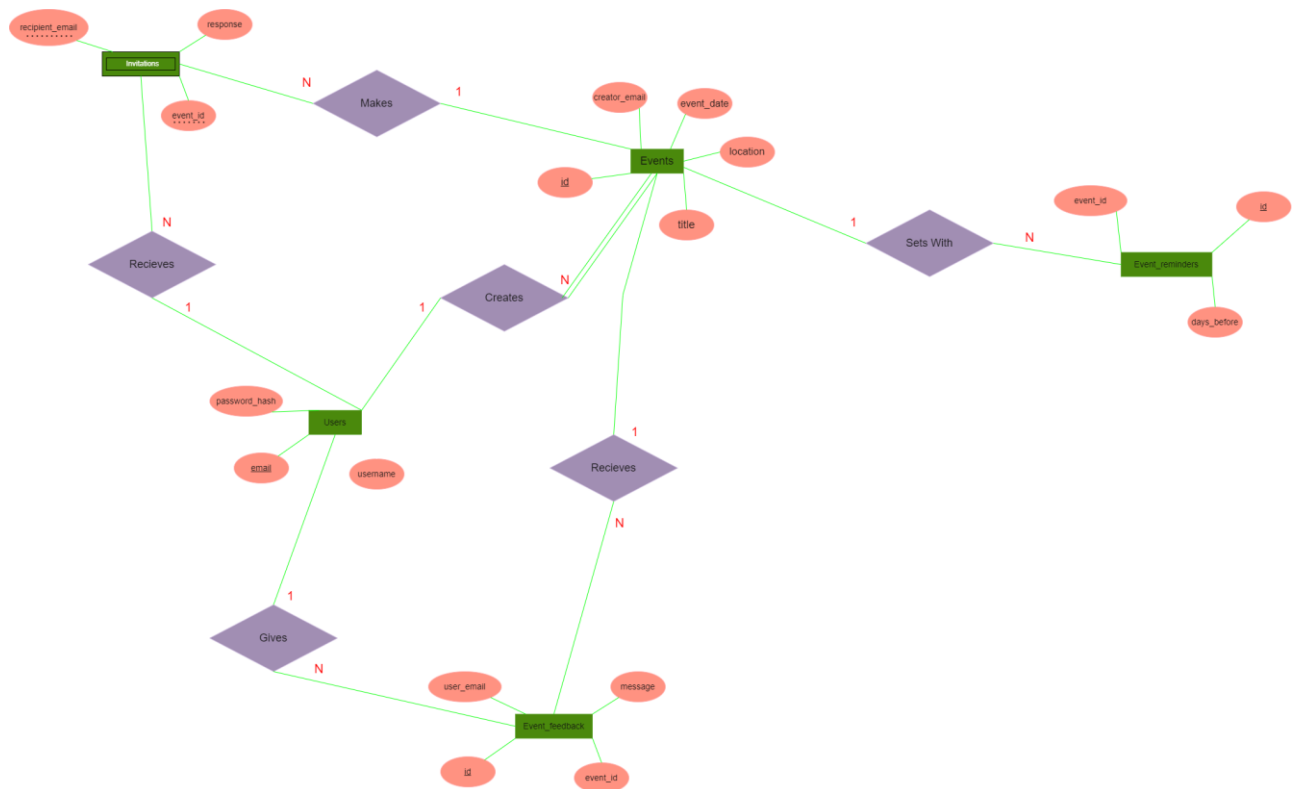


FIGURE 1 : RELATIONAL SCHEMA DIAGRAM OF PROPOSED DATABASE



**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](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.

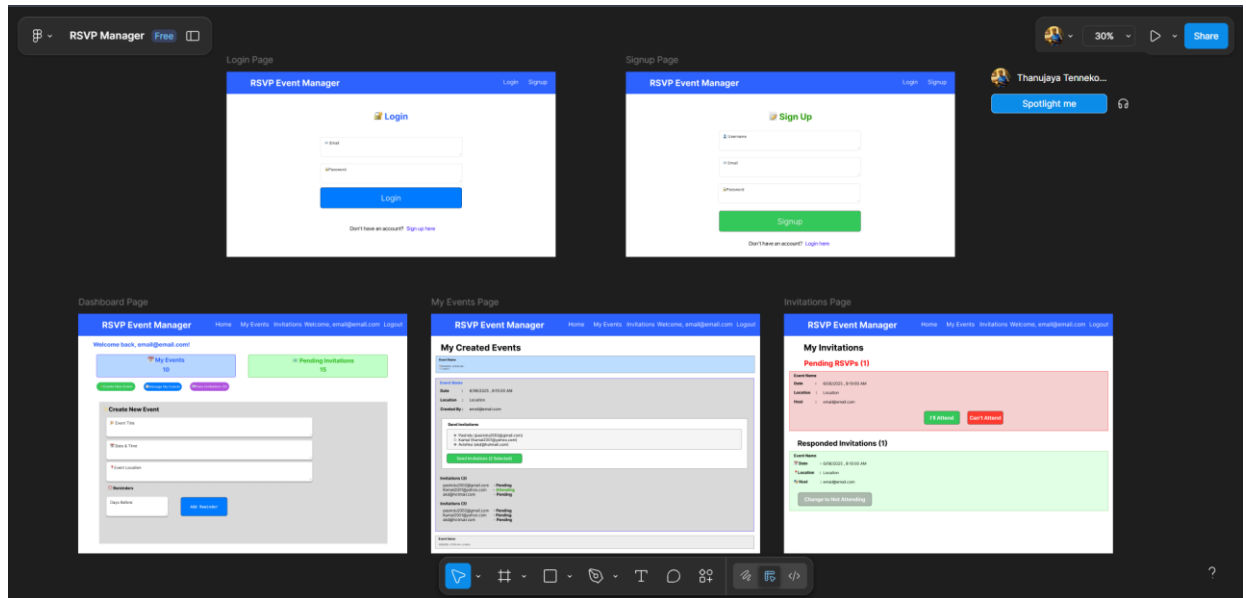


FIGURE 3 : ALL PAGES VIEW OF MOCK UI

## Login Page

RSVP Event Manager

LoginSignup

Login

Email

Password

Login

Don't have an account? [Sign up here](#)

FIGURE 4 : LOGIN PAGE

## Signup Page

RSVP Event Manager

LoginSignup

Sign Up

Username

Email

Password

Signup

Don't have an account? [Login here](#)

FIGURE 5 : SIGNUP PAGE

## Dashboard

RSVP Event Manager

HomeMy EventsInvitationsWelcome, email@email.comLogout

Welcome back, email@email.com!

17

My Events

10

Pending Invitations

15

Create New Event

Manage My Events

View Invitations (5)

Create New Event

Event Title

Date & Time

Event Location

Reminders

Days Before

Add Reminder

FIGURE 6 : DASHBOARD

## My Events Page

RSVP Event Manager

HomeMy EventsInvitationsWelcome, email@email.comLogout

### My Created Events

Event Name

📅 6/08/2025, 8:15:00 AM - 📍 Location

Event Name

Date : 6/08/2025, 8:15:00 AM

Location : Location

Created By : email@email.com

Send Invitations

☒ Pasindu (pasindu2002@gmail.com)

☐ Kamal (Kamal2001@yahoo.com)

☒ Avishka (akd@hotmail.com)

Send Invitations (2 Selected)

Invitations (3)

pasindu2002@gmail.com - Pending

Kamal2001@yahoo.com - Attending

akd@hotmail.com - Pending

Invitations (3)

pasindu2002@gmail.com - Pending

Kamal2001@yahoo.com - Pending

akd@hotmail.com - Pending

Event Name

6/08/2025, 8:15:00 AM - Location

FIGURE 7 : MY EVENTS PAGE

## Invitations Page

RSVP Event Manager

HomeMy EventsInvitationsWelcome, email@email.comLogout

### My Invitations

Pending RSVPs (1)

Event Name

Date : 6/08/2025, 8:15:00 AM

Location : Location

Host : email@email.com

I'll Attend

Can't Attend

Responded Invitations (1)

Event Name

📅 Date : 6/08/2025, 8:15:00 AM

📍 Location : Location

👤 Host : email@email.com

Change to Not Attending

FIGURE 8 : INVITATIONS PAGE

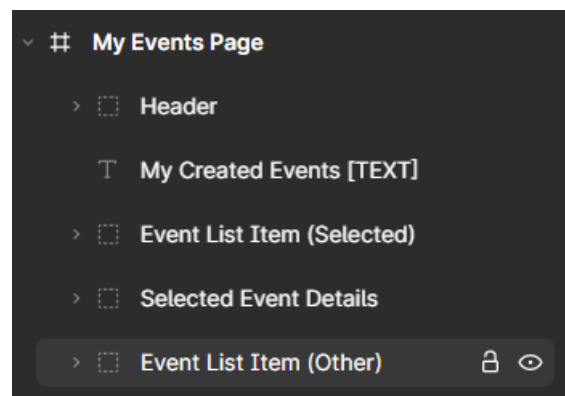
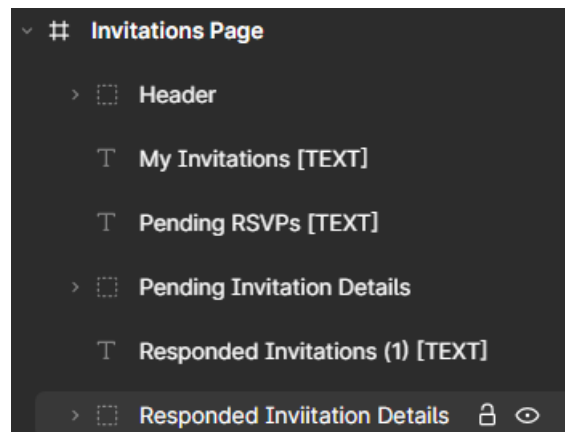
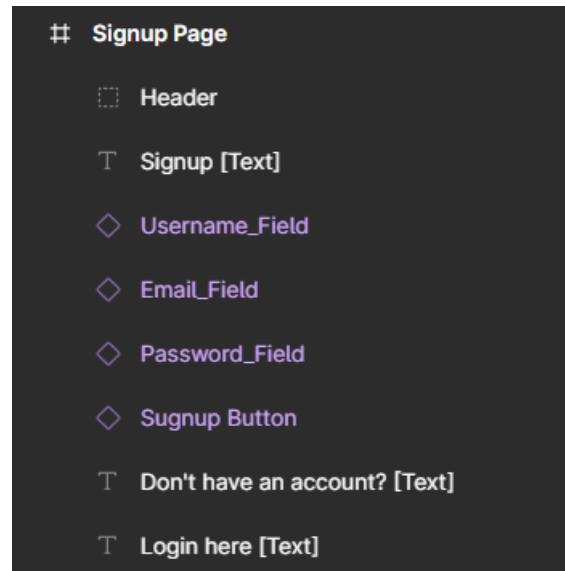
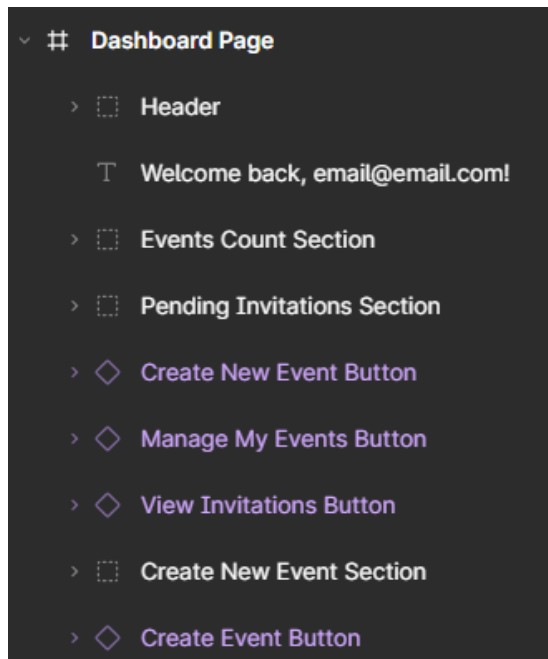
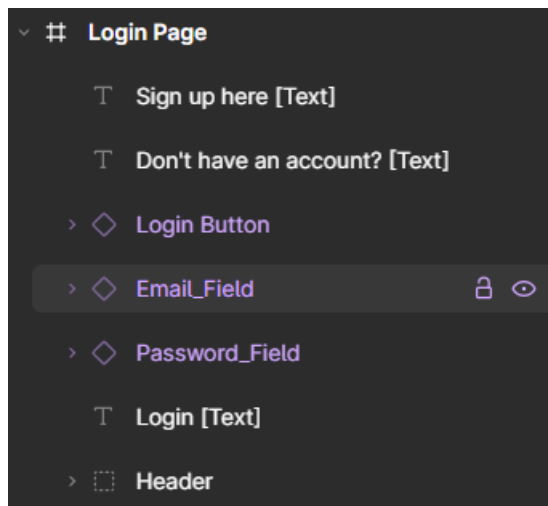


## Figma Links

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/>