Requirements and Design Document

In fulfilment of, ITIS 5166: Network Based Application Development project

Master of Science (Information Technology) University of North Carolina at Charlotte.

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Project Overview:

The main aim of the application "PW Events" is to be bring all types of events under one platform, so that a user can view the details of the event and can make his/her RSVP if they are interested. This application also provides an opportunity to a new user to create new event and publish their event on the website for the people to view it. There are two types of site users Guest user and site Member.

Guest Users are unregistered users who can view all the events hosted by PW site or other member users. They can view upcoming events details. If they are interested in any of the events, nihe/she can create an account using signup and can RSVP to that particular event. After signing up one can also create new event/connection they are hosting.

Site members can login to their page and can view different events like marriage events, Book Launch events etc., They can save their decision as they are interested or not interested or may be to update their decision later and visit event based on their decision. They can also create a new event if they are hosting one.

Site Map:
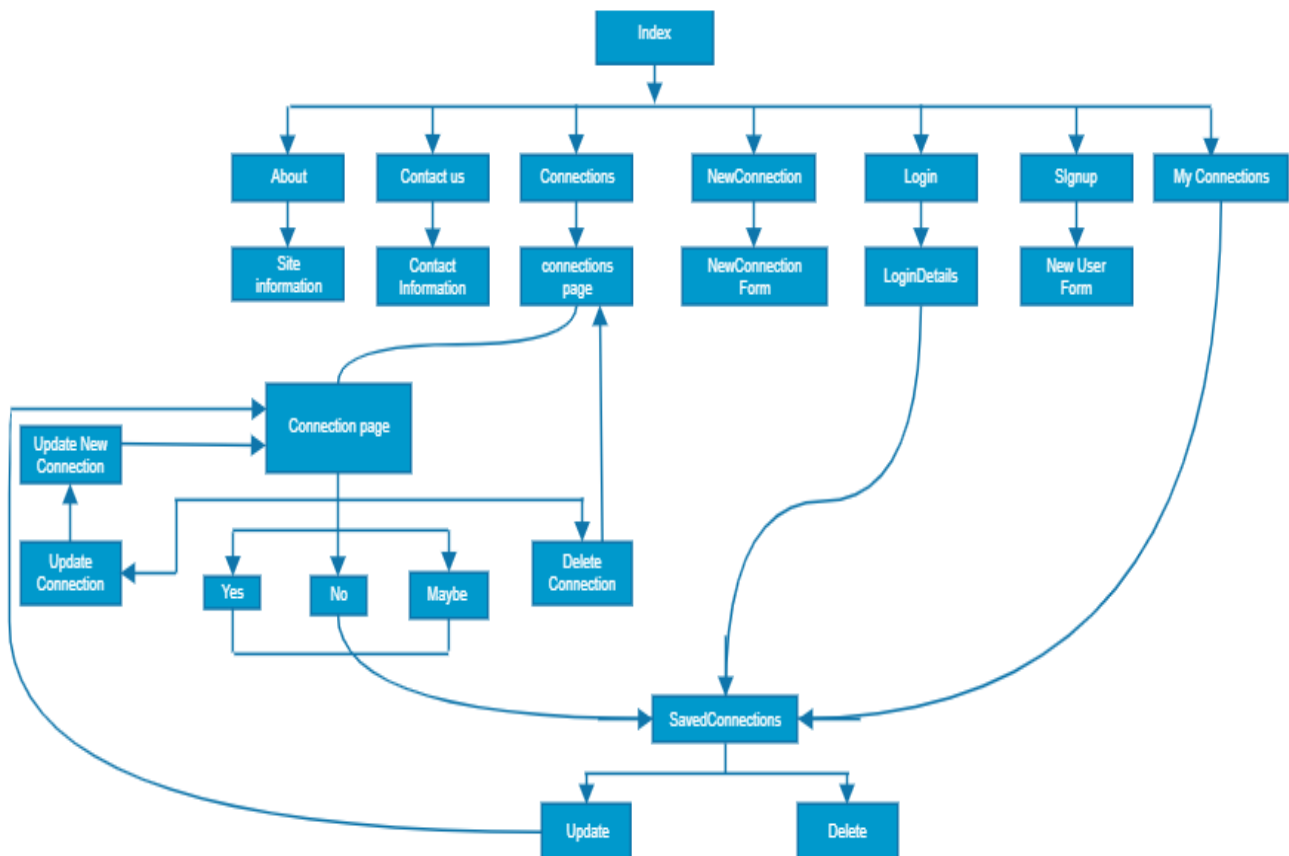
1. <u>Page Design</u>

1.1 Index or Home Page:
- **Name of the page:** index.ejs
- **Title:** PW Events
- **Purpose of the page:** It is the home page of the application. It shows overview of the application. Both Guest and site members can view this page. Log in is not required for this page, everyone can view this page and can navigate to connections page from this page. There are no member restrictions on this page.
- **View:** The basic view of the page contains navigation bar. It contains different links which redirects to different pages like connections, start a new connection, login and signup. At the bottom of the page it contains footer bar which has links to about us and contact and social media sites.
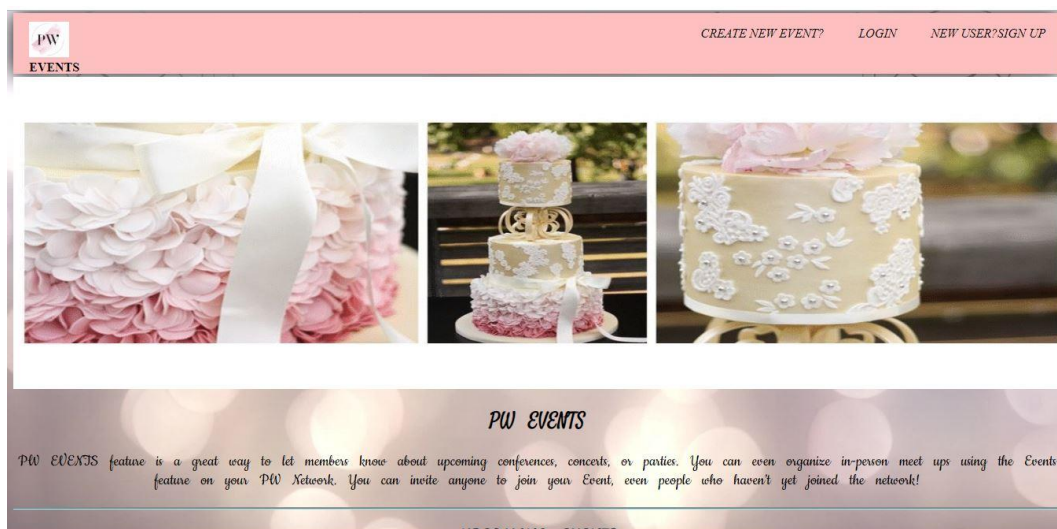
<u>Navigation Links</u>

1.2 LOGO:
- On-clicking the logo of the application, it redirects to the home page/index page. It is present on the left corner of the Navigation bar on every page for easy access to the home page.
- Before Login:

- After Login:

1.3 Connections Page:

- **Name of the page**: connections.ejs
- **Title**: PW Connections
- **Purpose of this page:** This page shows various events hosted by PW site and independent site members. It has list of various events. On-clicking on event names it redirects to the respective event page which displays event details.
- There are no restrictions on this page. Both the users can access this page.
- **View:** It also contains a navigation bar. It contains different links which takes different pages like connections, start a new connection, login and signup. In footer application contains links about us and contact.
- All the elements in the navigation bar and footer will take you to respective pages when clicked on that link.
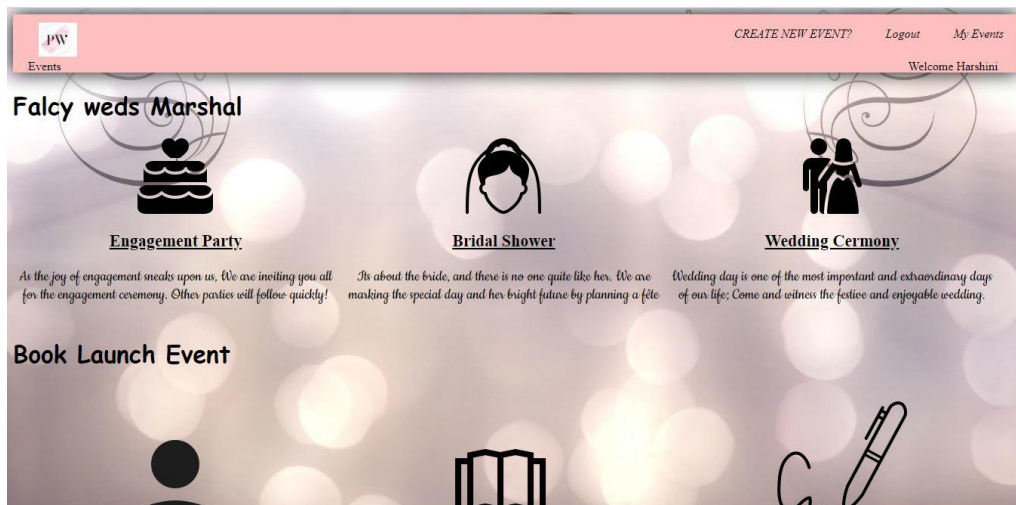
1.4 Login Page

- **Name of the page**: login.ejs
- **Title**: PW Login
- **Purpose of this page:** It is a sign in page which asks for user credentials, verify them and loads his/her respective saved events/connections.
- **View:** It contains a log in to be filled by the site member. Member should provide their username ie., email address and the password to open their saved connections.
- It also contains a navigation bar. It contains different links which takes different pages like connections, start a new connection, login and signup. In footer application contains links about us and contact.

- All the elements in the navigation bar and footer will take you to respective pages when clicked on that link.
- **Redirecting Page:** After providing with the correct credentials, on clicking submit it redirects to user's savedConnections page which contains all the connections that user saved to attend/interested.
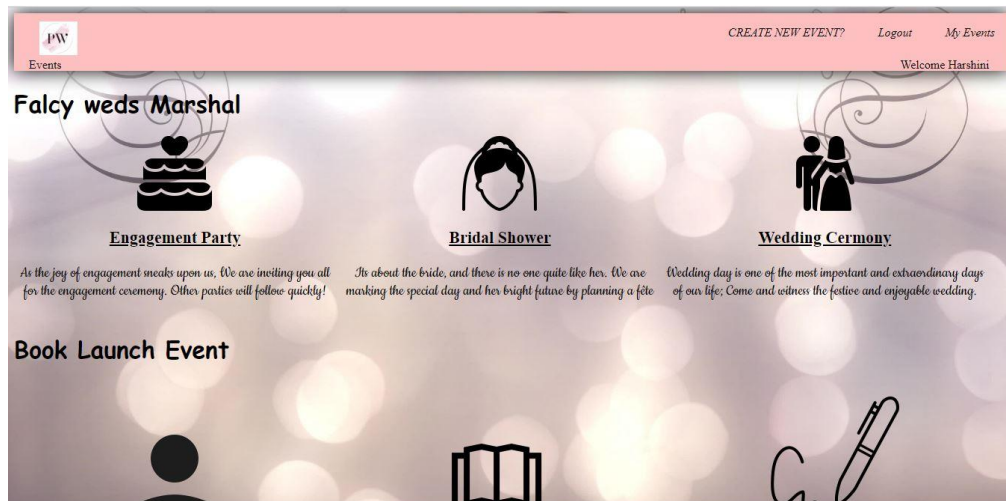
1.5 Create New Event? Page

- **Name of the page:** newConnection.ejs
- **Title:** New Event
- **Purpose of page:** This page helps you to create a new event. You should create event by giving you name of the event, event topic like wedding, book launch, corporate etc., location, details, date, time, event image url.
- **Validation**: There are some restrictions on filling the required fields while creating a new event like details should have minimum length, Host name and Restaurant name should have minimum length, date should be of valid format. In case of filling it with any invalid format it will prompt you, a message stating that input is of invalid format.
- Both the registered users and unregistered users can create a event.
- It also contains a navigation bar. It contains different links which takes different pages like connections, start a new connection, login and signup. In footer application contains links about us and contact.
- All the elements in the navigation bar and footer will take you to respective pages when clicked on that link.
- Finally clicking on submit button after filling all the required fields will create a new event.

- If you are creating an event which belongs to already existed topic, then it just adds the new event to that topic.

1.6 New User? Sign Up Page
- **Name of this page:** sign up page
- **Purpose of this page:** It is used to register or create an account to access this application for Guest users.
- Unregistered users can access this page to register or signup for this application.
- Validations are applied for the form

1.7 My Events Page:
- **Name of this page:** savedConnections.ejs
- **Title:** My Events

- **Purpose of this page:** This page can be viewed by logged in members. In this page one can view user saved events and user's decisions on that saved events.
- Only members who has access to the application site can access this page.
- This page also contains two buttons for every saved event. They are update and delete buttons.
- Update button is used to change your decision on that event. Delete is used to delete that event from the saved connections.
- It also contains a navigation bar. It contains different links which takes different pages like connections, start a new connection, login and signup. In footer application contains links about us and contact. It contains logout in navigation bar to logout from their account instead of signup button.
- All the elements in the navigation bar and footer will take you to respective pages when clicked on that link.

1.8 Logout Page:

- Logout button is used to log out user from his account and returns him to home page.
- Closes the user's session.

Footer Links

1.9 Contact Page:

- **Name of the page**: contact.ejs

- **Purpose of this page:** This page contains the information of the site. You can contact through this address if you have any issues.
- Both Members and Unregistered users can view this page.
- It also contains a navigation bar. It contains different links which takes different pages like connections, start a new connection, login and signup. In footer application contains links about us and contact.
- All the elements in the navigation bar and footer will take you to respective pages when clicked on that link.
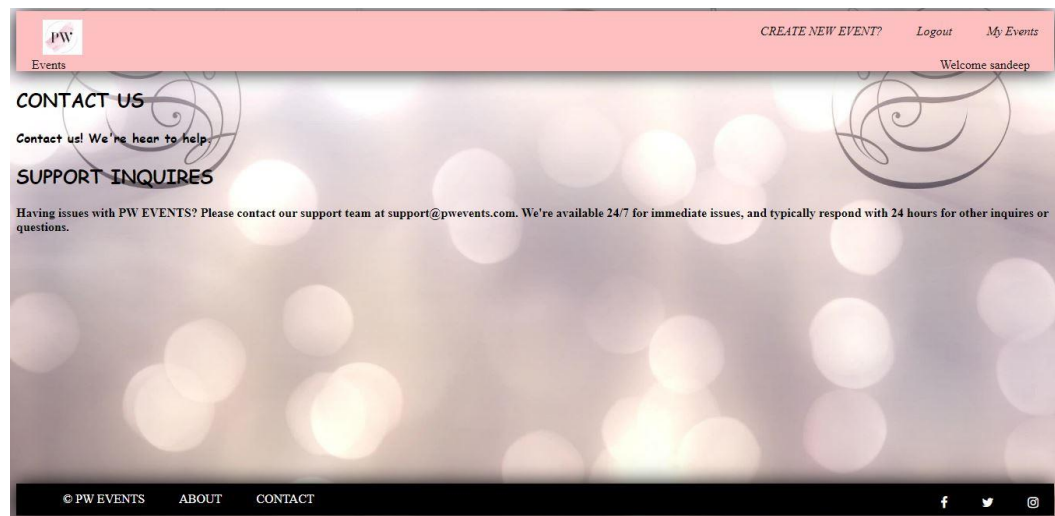
1.10   About Page:
- **Name of this page:** about.ejs
- **Title:** About PW
- **Purpose of this page:** This page contains the information of the site. It shows who built the site, developer details and what is this site for.
- Both Members and Unregistered users can view this page.
- It also contains a navigation bar. It contains different links which takes different pages like connections, start a new connection, login and signup. In footer application contains links about us and contact.
- All the elements in the navigation bar and footer will take you to respective pages when clicked on that link.
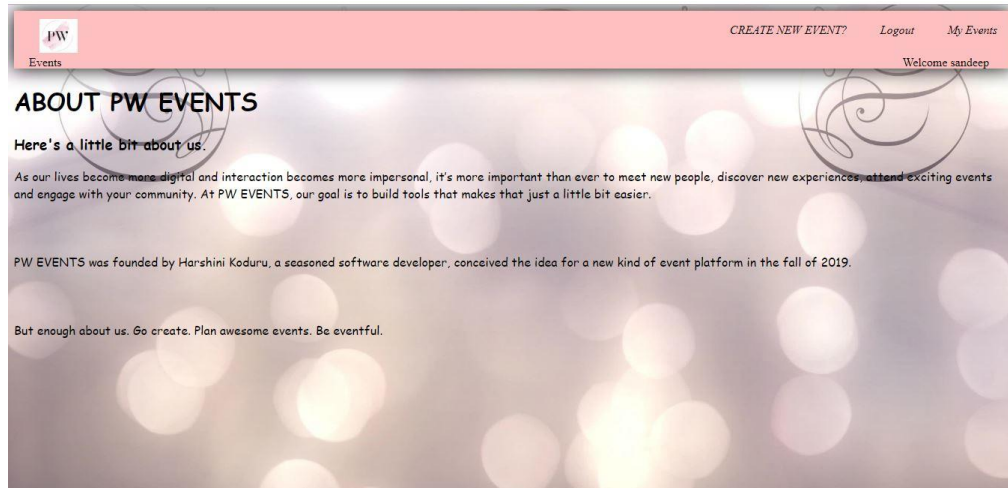
1.11 Copyright PW Events:

- On-clicking the logo of the application, it redirects to the home page/index page. It is represent on the left corner of the Navigation bar on every page for easy access to the home page
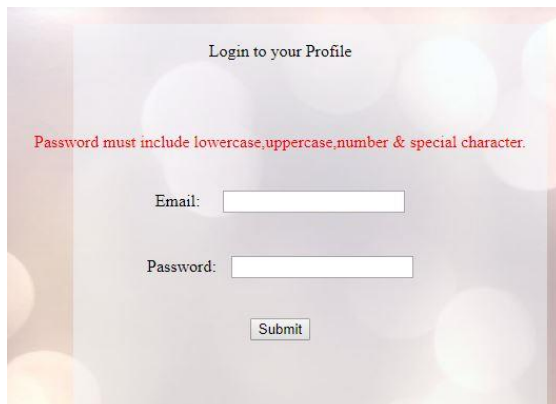
2. Database structure

Following are the collections in the site Database

- **connections:** It contains details of different events like userID, connectionID, connectionTopic, details, location, date, time, about_event, image_url

- **userConnections:** It contains details of the saved connections or events of registered users like id, userID, connectionID, rsvp.

- **users:** It contains the details of the registered users like id, userID, firstName, lastName, emailAddress, addressLine1, addressLine2, city, state, postalCode, country, password, salt.

3. <u>Validations</u>

3.1 Login Validation:
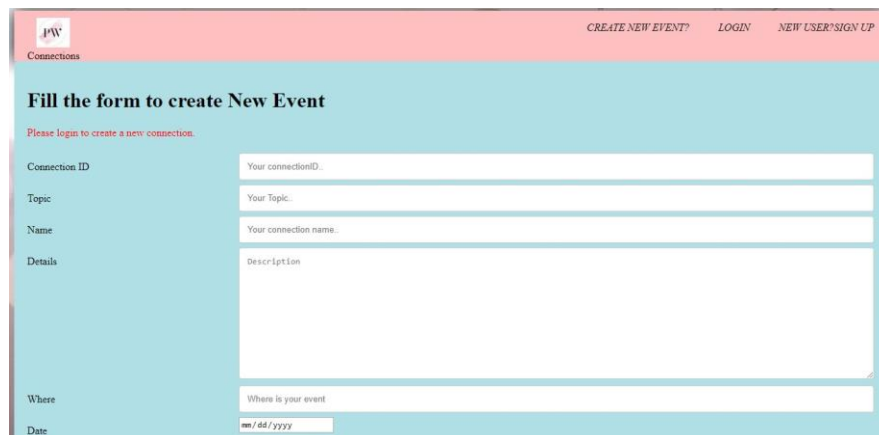
- It verifies the credentials for members and opens saved connections only when correct credentials were given.
- It checks email format and password format to be satisfied or not.

3.2 New connection Validation

- New connection form validates all the inputs such as length check, date and time formats.
- Only current and future dates are accepted.
- New connection Page submits only for site Members i.e., Members who are already logged in and shows error for Guest users.

3.3 Connection page for New user event with update/delete option:

- When new user adds a new event, he can edit the event hosted by him. He can perform update and delete operations on the connections added by him.
- However, He cannot edit events added by other users.
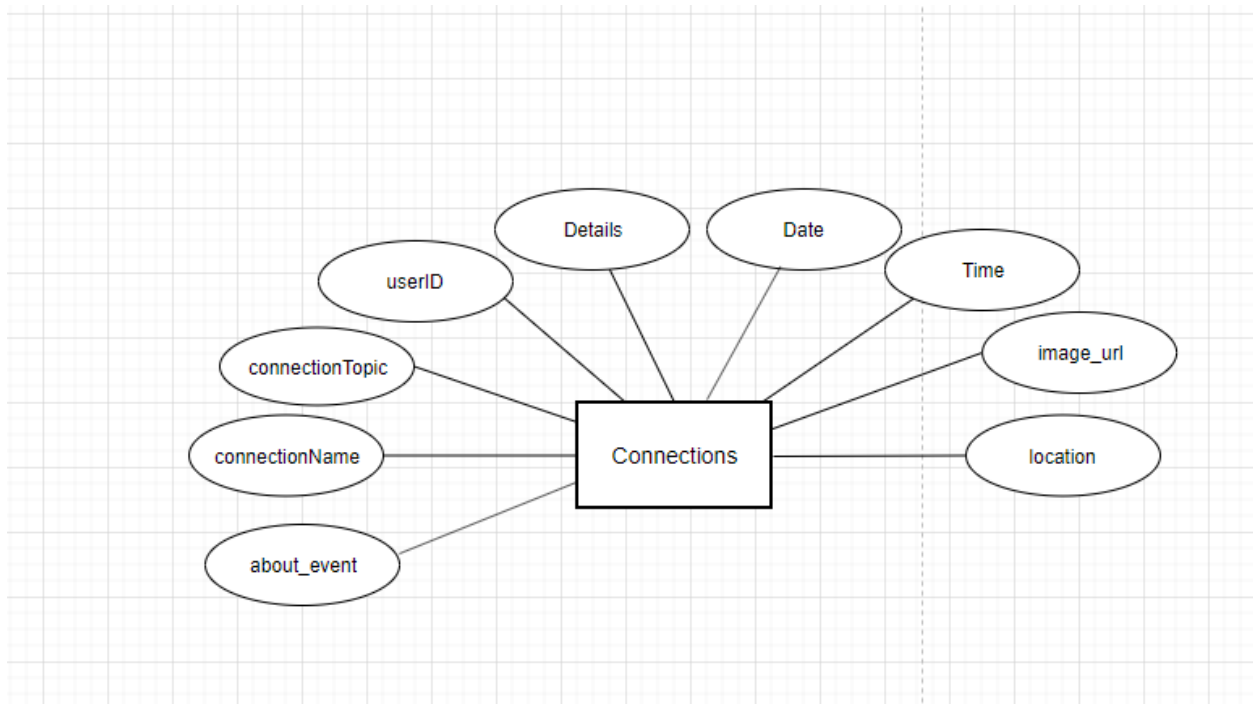

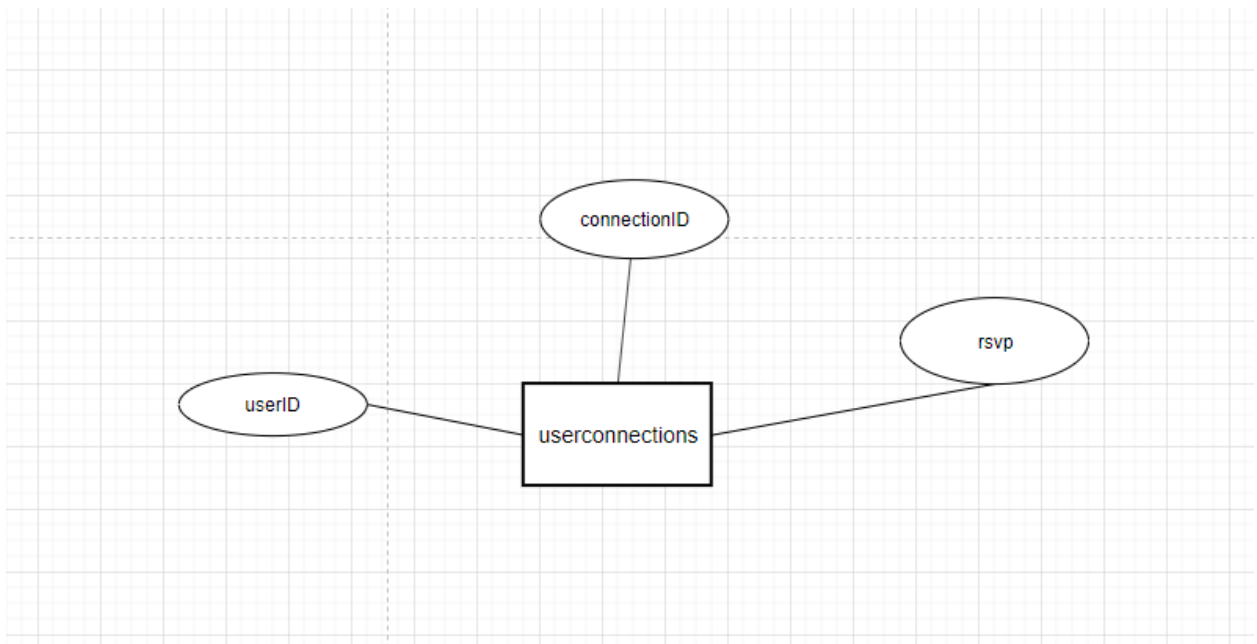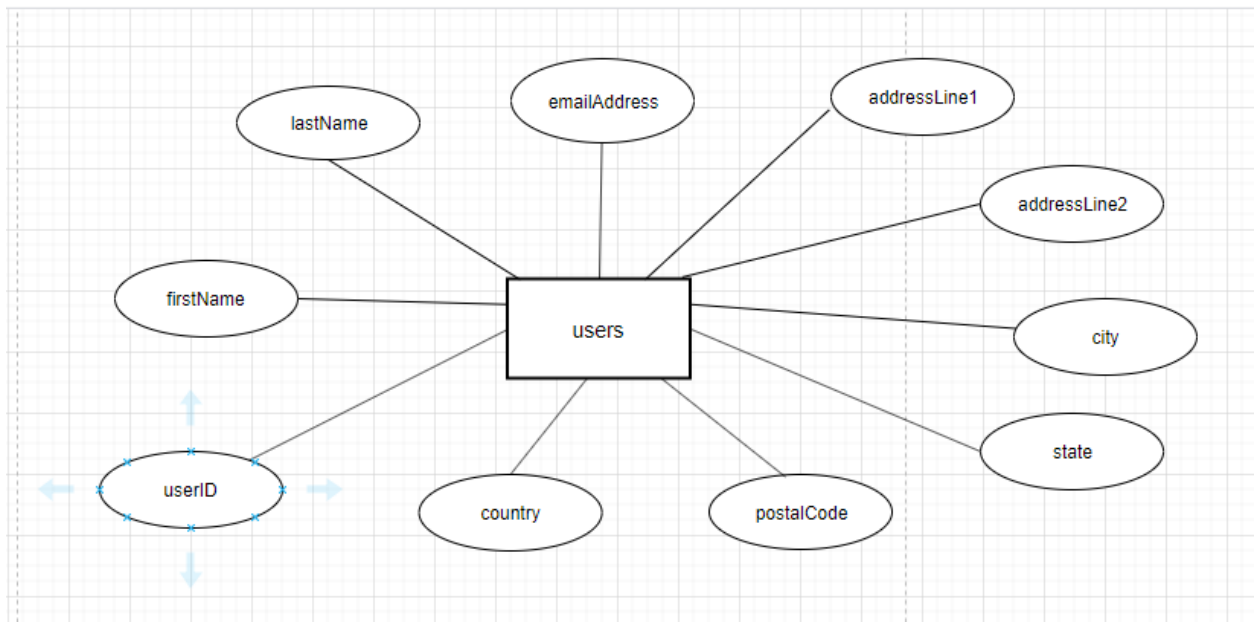- **Connection added by other user:**

3.4 User added connection Update form:

- When new user added a connection, he can click on update button in connection page, then it redirects it update connection page.

4. <u>ER- DIAGRAMS</u>

<u>ENTITIES</u>

users entity with attributes: lastName, emailAddress, addressLine1, addressLine2, firstName, city, state, userID, country, postalCode

userconnections entity with attributes: connectionID, userID, rsvp

Relationships

Relationships

users —1— Each user can have many connections —N— userConnections

users —1— Update/delete rsvp —N— connections

users —1— update/delete /create connections —N— userConnections

users
1
can update connections into userConnections —N— userConections
1
connections