MTG Events

Requirements and Design
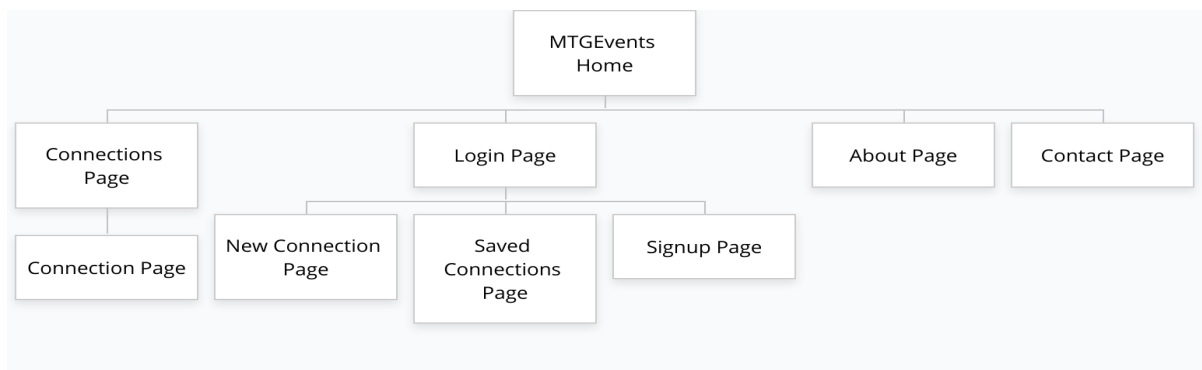
Levi Carpenter

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Requirements and Design Document

Project Name: **MTG Events**

Project Overview:

        The purpose of this website is to grant anyone interested in Magic: the Gathering a platform to create, find, and share upcoming events for the game. The potential users are Magic: the Gathering players, people interested in learning about Magic: the Gathering, and anyone else interested in the website. The website will include: a home page, a login page, a signup page, a "Connections" page to display all upcoming events, a "Connection" page to list individual event details and allow users to RSVP to the event, a "Saved Connections" page to display all of the events the user RSVP'd to, a "New Connections" page to allow new events to be added, a "Contact" page to inform users on how to contact the site owner, and an "About" page to briefly describe the purpose of the website. These pages, as a complete site, will allow users to connect with other supporters of the game and manage logistics about upcoming events.

Site Map:

Page Design:

- **Header**
    - Purpose: Bring consistency to the website and allow easy access to home page, login page, signup page, "New Connection" page, "Saved Connections" page, and signout.
    - Users: All users
    - Content:
        - Hyperlinks
            - Website logo
                - Links to home page
            - "Start a New Connection"
                - Links to "New Connection" page
            - "Login"

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- o Links to login page
- ♦ "Signup"
    - o Links to signup page
- ♦ "My Connections"
    - o Links to "Saved Connections" page
- ♦ "Signout"
    - o Logs out user and redirects to home page
- No data entry.
- No validations.
- **Footer**
    - o Purpose: Bring consistency to the website and allow easy access to the "About" and "Contact" pages
    - o Users: All users
    - o Content:
        - Hyperlinks
            - ♦ "About"
                - o Links to about page
            - ♦ "Contact"
                - o Links to contact page
        - No data entry.
        - No validations.
- **Navigation Bar**
    - o Purpose: Allow easy access to "Connections" and "Saved Connections" pages
    - o Users: All users
    - o Content:
        - Hyperlinks
            - ♦ "Connections"
                - o Links to the "Connections" page
            - ♦ Hyperlink with user's name
                - o Only visible when a user is logged in
                - o Links to the "Saved Connections" page
        - No data entry.
        - No validations.
- **Home Page**
    - o Purpose: Welcome users to the website and directs them to the "Connections" page
    - o Users: All users
    - o Content:
        - Textual Information

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- ♦ The page consists of a welcome header, a short website description, and a note to click on the connections link to find events.
    - ▪ No data entry or validations.
- **Login**
    - o Purpose: Allow users to login and see previously saved connections
    - o Users: Any user wanting to save their connections
    - o Content:
        - ▪ Data Entry
            - ♦ Text entry box for email
            - ♦ Text entry box for password
        - ▪ Button
            - ♦ "Login"
                - o Validation to ensure data in email field is an email
                - o Validation to ensure password matches given email address.
                - o On successful validation, user is redirected to saved connections page.
                - o On error with validation, user is prompted with the errors in red.
- **Signup**
    - o Purpose: Allow users to create an account so they can save and revisit saved connections
    - o Users: Any user wanting to save their connections
    - o Content:
        - ▪ Data Entry
            - ♦ Text entry box for first name
            - ♦ Text entry box for last name
            - ♦ Text entry box for email
            - ♦ Text entry box for line1
            - ♦ Text entry box for line2
            - ♦ Text entry box for city
            - ♦ Text entry box for state
            - ♦ Text entry box for zip
            - ♦ Text entry box for country
            - ♦ Text entry box for password
            - ♦ Text entry box for password confirmation
        - ▪ Button
            - ♦ "Sign Up"
                - o Validates all required entry boxes are filled and contains appropriate data.

- o On successful validation, user is redirected to saved connections page.
        - o On error with validation, user is prompted with the errors in red.
    - ▪ Validate that user is logged in before rendering the page. If the user is not logged in, they will be redirected to the login page.
- **Connections**
    - o Purpose: Allows users to see all upcoming tournaments
    - o Users: Any users interested in attending an event
    - o Content:
        - ▪ Textual Information
            - ♦ Lists of hyperlinks for individual connections, sorted by topic
        - ▪ Hyperlinks
            - ♦ All hyperlinks redirect users to the "connection" page, which dynamically renders the page for each connection.
        - ▪ No data entry
        - ▪ No validations
- **Connection**
    - o Purpose: Allows users to view a specific connection's details and RSVP to that connection.
    - o Users: Any user interested in a specific connection or looking to RSVP to an event.
    - o Content:
        - ▪ Textual Information
            - ♦ Details for the connection, such as name, host, date, time, location, and description.
        - ▪ Buttons
            - ♦ All buttons redirect the user to the saved connections page.
            - ♦ "Yes"
                - o RSVP yes to the current connection
            - ♦ "No"
                - o RSVP no to the current connection
            - ♦ "Maybe"
                - o RSVP maybe to the current connection
        - ▪ No data entry
        - ▪ RSVP buttons validate that the user is logged in before saving the connection and redirects the user to the login page if not.
- **Saved Connections**
    - o Purpose: Allows users to view saved and user-created connections, update and delete RSVPs to another user's connection, and edit and delete user-created connections.

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- o Users: Any user who has saved or created a connection.
- o Content:
    - Textual Information
        - ♦ A table that displays the name, topic, and RSVP of saved connections along with an update and delete button for each of the connections.
    - Buttons
        - ♦ "Delete"
            - o For saved connections hosted by another user:
                - Deletes the connection from the user's saved connection list and removes the RSVP
            - o For saved connections created by the user:
                - Deletes the connection for all users
        - ♦ "Update"
            - o For saved connections hosted by another user:
                - Redirects user to the connection's detail page so the user can update their RSVP
            - o For saved connections created by the user:
                - Redirects the user to the new connection page and populated the form with the connection's information so the event details can be updated.
    - No data entry
    - Validate that user is logged in before rendering the page. If the user is not logged in, they will be redirected to the login page.
- **New Connection**
    - o Purpose: Allows users to create new connections that can be viewed and RSVP'd to by other users.
    - o Users: Any user who wants to share an upcoming MTG event.
    - o Content:
        - Data Entry
            - ♦ Text entry box for topic
            - ♦ Text entry box for name
            - ♦ TextArea box for Details
            - ♦ Text entry box for location
            - ♦ Text entry box for date
        - Button
            - ♦ "Create Connection"
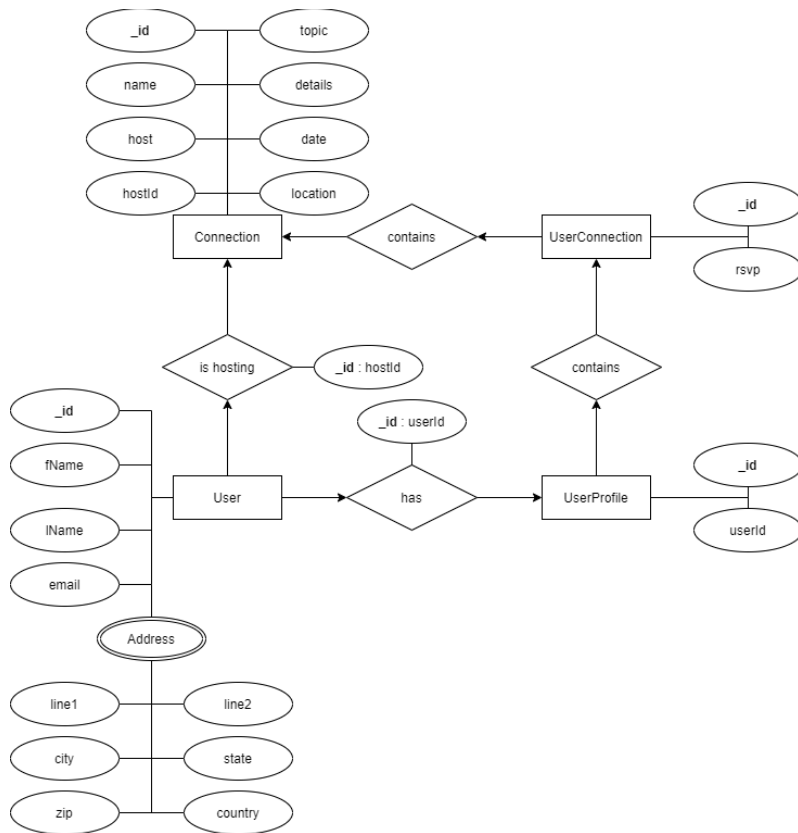   - o Validates all entry boxes are filled and contains appropriate data.

- Validate that user is logged in before rendering the page. If the user is not logged in, they will be redirected to the login page.

- **Contact**
    - Purpose: Informs user how to contact site owner.
    - User: Any user interested in meeting or contacting site owner
    - Content:
        - Textual Information
            - ◆ UNCC address
            - ◆ Site owner's email address
        - No data entry.
        - No validations.
        - No actions

- **About**
    - Purpose: Briefly describes the purpose of the website
    - User: Any new users who do not understand the purpose of the website.
    - Content:
        - Textual Information
            - ◆ Short description of the website's purpose.
        - No data entry
        - No validations
        - No actions

Database Design

ER Diagram:

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Schema Descriptions:

- **Connection**
    - name: String
    - host: String
    - hostId: String
    - topic: String
    - details: String
    - date: Date
    - location: String
- **User**
    - fName: String
    - lName: String
    - email: String
    - address: addressSchema
- **Address**
    - line1: String
    - line2: String
    - city: String

- o state: String
- o zip: Number
- o country: String
- **UserConnection**
  - o connection: connectionSchema
  - o rsvp: String
- **UserProfile**
  - o userId: String
  - o userConnections: [userConnectionSchema]