



NextEvent

Next Event

REQUIREMENT AND DESIGN DOCUMENT

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Requirement and design document

Project overview

NextEvent is an event organizing website. Here general users can check out events happening around them. Registered users can host Food and Drinks or Music events, as well as RSVP to events.

Requirements

Entire application is built using a JavaScript runtime build on Chrome's V8 JavaScript engine.

– **Node.js**. v10.16.3

It is a free, open source server environment which runs on various platforms (Windows, Linux, Unix, Mac OS X, etc.)

NPM (Node package manager) as package manager is used to make use of shared packages, or modules.

The **IDE** (Integrated Development Environment) used is JetBrains **WebStorm**. It is a powerful IDE for modern JavaScript development especially Node.js. I prefer this IDE for its smart code completion, powerful navigation features, on-the-fly error detection, and refactoring's.

I'm using **NoSQL** Database system to store Application data, because of simplicity of design and simpler scaling. **MongoDB v4.2** is used to support the application, it is a **Document Store** Type NoSQL Database.

Application Architecture

I've used **MVC** (Model View Controller) Architecture. This type of architecture works well with Object oriented programming, since different models, views, and controllers can be treated as objects and reused within the application.

Model: Model represents shape of the data and business logic. It maintains the data of the application. Model objects retrieve and store model state in our database.

View: View is a user interface. View displays data using model to the user and enables them to modify the data.

Controller: Controller handles the user request. Typically, user interacts with View, which in-turn raises appropriate URL request, this request will be handled by a controller. The controller renders the appropriate view with the model data as a response.

Application has 4 structural repositories:

Routes handles the URL requested and serves it to appropriate controller.

Model represents the schema of different collections in the database.

View represents EJS files being served to user for interaction and viewing.

Controller handles the URL directed by routes to render appropriate response.

Database Structure

NoSQL Database is divided into Collections, and each entry is called Document.

Application Database is divided into 3 main collections :

Connections: This store event data.

Users: This store user data.

User Profile: This stores events saved by each registered user, and their status of RSVP.

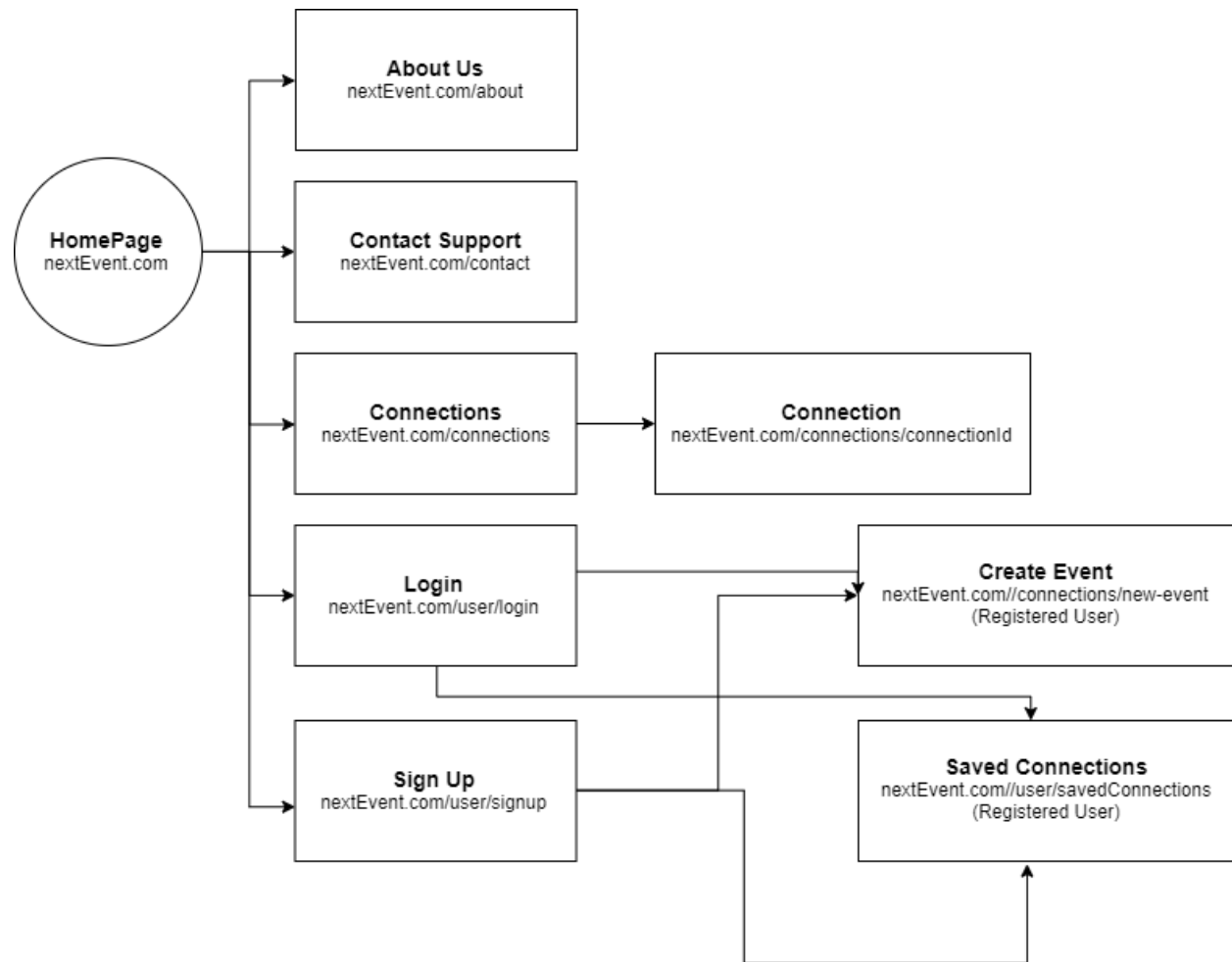
Another utility collection used is:

Helper Data: This store data to show on Home, About Us and Contact Support pages.

Target Market

- Everyone who wants to find events happening around them and wants to keep a track of events they have RSVP'd for their reference.
- Teams and Individuals who want to host different events and want to let people know.

Sitemap

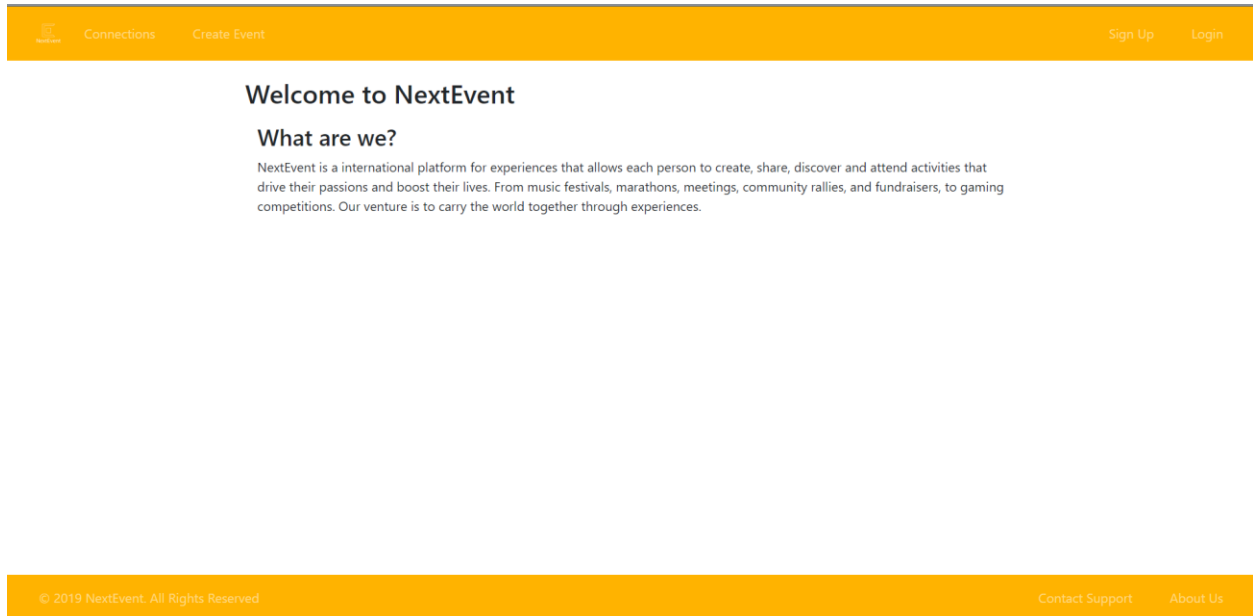


Page Design

Home Page

This page acts as a welcome page to the application and provides a brief of what the app is all about.

Audience : General Users



Every page includes a Top Navigation Bar and Bottom navigation bar. User can navigate to Login, Sign Up, Connections and Create Event pages.


From the bottom navigation bar, User can navigate to Contact Support and About Us pages.

These functionalities of the Top Navigation bar are same across all pages when user is not logged in.


Connections Page

This page lists all the connections or events of different categories created by users


Audience : General Users


[Connections](#)
[Create Event](#)
[Sign Up](#)
[Login](#)


Music Events



Hip Hop Silent Party
Friday, September 29, 2019
7:00 PM




Bruno Mars Concert
Friday, September 29, 2019
8:00 PM




UNCC Homecoming Kickoff
Friday, September 29, 2019
9:00 PM


Food & Drink events




Stats Sunday Brunch
Friday, September 29, 2019
10:00 AM




South End Oktober Fest
Friday, September 29, 2019
6:00 PM




Charlotte Grilled Cheese Fest
Friday, September 29, 2019
5:00 PM




Kickoff
Friday, September 29, 2019
9:00 PM



Stats Sunday Brunch
Friday, September 29, 2019
10:00 AM



South End Oktober Fest
Friday, September 29, 2019
6:00 PM



Charlotte Grilled Cheese Fest
Friday, September 29, 2019
5:00 PM

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[Contact Support](#)
[About Us](#)

Connection Detail

This page provides details about the selected event, Event Name and Photo, Hosted By, Time, Date, Location, and provides description about the event.

Also provide options to RSVP to event with Yes/No/Maybe, clicking on it adds the event to logged in user's saved connections. This functionality is only available to registered users to add the connection to their Saved Connections. For general users, clicking on RSVP buttons will redirect to Login Page.

Audience : General Users and Registered Users

Hip Hop Silent Party



Hosted By: THE A TEAM

When? : Friday, September 29, 2019

Time? : 7:00 PM to 9:00 PM

Where?: ABC Pavilion

Are you going?

[Yes](#)

[No](#)

[Maybe](#)

Description



Hosted By: THE A TEAM

When? : Friday, September 29, 2019

Time? : 7:00 PM to 9:00 PM

Where?: ABC Pavilion

Are you going?

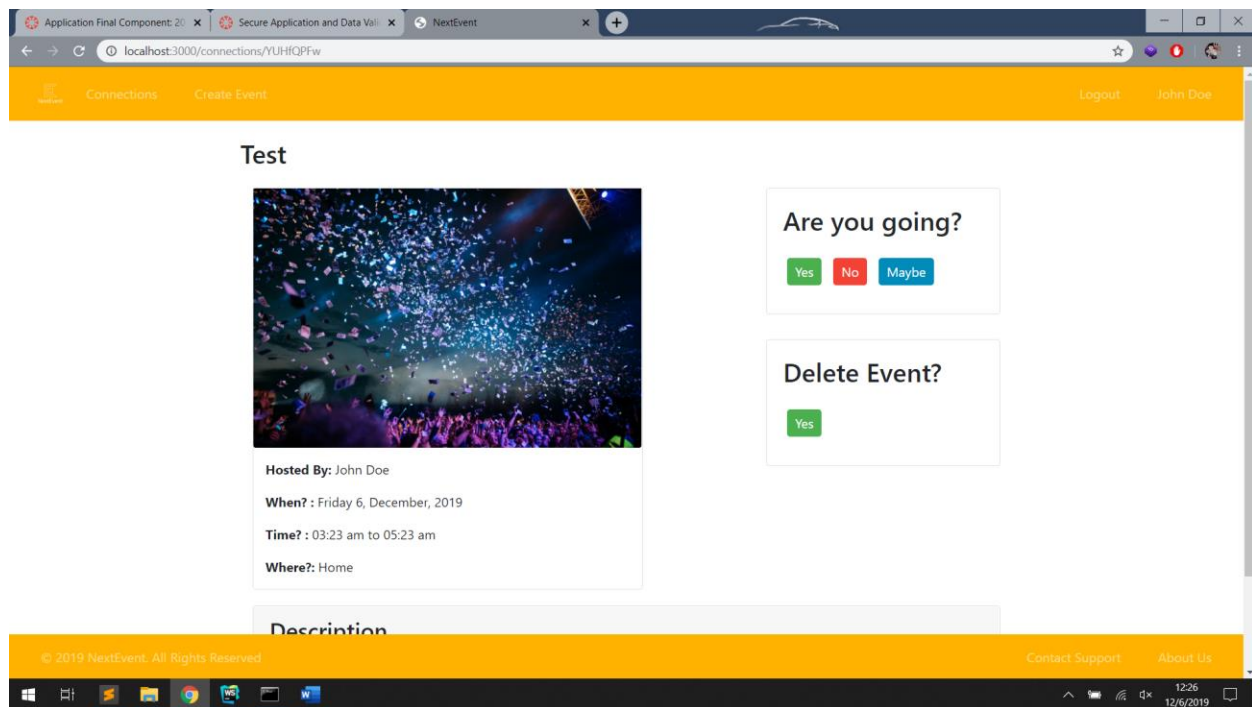
[Yes](#)

[No](#)

[Maybe](#)

Description

THE A TEAM proudly presents Hip Hop Silent Party! Put on your boots, bring your friends and join us from around the world at Charlotte's epic ABC Music Pavilion.



If the user logged in created particular connection , he will be shown a delete option.

If user's not the creator, He will not be shown the delete option. Once the connection has been deleted it won't be visible to other users even if they had given RSVP to it, it will be removed from their savedConnections.

Saved Connections

This page contains information about user's saved connections, it includes a summary of the connections they've shown interest in and saved in this application. This page provides functionality of Updating the RSVP or deleting the event from the saved records of the user.

Clicking on update will redirect to that connection page, allowing user to go through event details and change their RSVP status.


The Navigation bar changes when a user logs in, it is replaced with Logout button and User Name button.

Clicking on Logout, logs out user and redirects to connections page.

Clicking on Username, takes user to Saved Connections of the User.

These functionalities of the Top Navigation bar are same across all pages when logged in.

Audience : Registered Users

 [Connections](#) [Create Event](#) [Logout](#) [John Doe](#)

Events History

My Events

Event	Category	Going?	Actions	
UNCC Homecoming Kickoff	Music	Yes	Update	Delete
Hip Hop Silent Party	Music	Yes	Update	Delete
South End Oktober Fest	Food & Drinks	Maybe	Update	Delete

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Create Event

This page provides logged in user to create an event, user must pick a category from category of event from - Food and Drinks or Music Event, provide event name, description , date, time, duration of event and location of the event.

If user is not logged in, this page will redirect use to login.

Audience : Registered Users

Data Fields Presented and Validations:

Event **Name** is validated for minimum length of 3 and maximum of 50 characters

Event **Details** is validated for minimum length of 3 and maximum of 200 characters

Event **Location** is validated for minimum length of 3 and maximum of 100 characters

Event **Duration** is validated for maximum hours of 12.

Event **Date and Time** Picker is validated to be in between 2019-10-11 00:00 and 2020-12-31 00:00

New Connection

Create a new Event

Topic

MusicFood & Drinks

Name

Details

Date

Duration

Location

Create Connection

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Clicking on Create Connection button, will create a new Event and redirect user to display all events page (Connections)

Login

This page allows registered users to login.

Audience : General Users

ConnectionsCreate Event

Sign UpLogin

Login

Email

Password

Sign in

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Contact SupportAbout Us

Data Fields Presented and Validations:

Email is validated if it's in email format using express validator

Password is validated for minimum of 6 characters

Sign Up

This page allows users to register and login.

Audience : General Users

The screenshot shows the 'Sign Up' page of the NextEvent application. The page has a yellow header bar with the NextEvent logo and navigation links: 'Connections', 'Create Event', 'Sign Up', and 'Login'. The main content area is white and features the 'Sign Up' title. Below the title are four input fields: 'First Name', 'Last Name', 'Email', and 'Password'. The 'Password' field has a validation message 'Must be at least 6 characters'. A yellow 'Sign Up' button is located below the input fields. The footer is a yellow bar with the copyright notice '© 2019 NextEvent. All Rights Reserved' and links for 'Contact Support' and 'About Us'.

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Contact Support About Us

Data Fields Presented and Validations:

Email is validated if it's in email format using express validator

Password is validated for minimum of 6 characters

First Name and **Last Name** is validated to be just alphabets


Contact Support

This page answers FAQs about using the application, and to contact customer care in case of any further queries.

Audience : General Users and Registered Users

Clicking on Go to Saved Events, will redirect user to login, if not already logged in. Logged In users will be redirected to their saved connections page, listing the events they RSVP'd to.

Clicking on Go to Event Listing will redirect users to display all events (Connections) page.

 [Connections](#) [Create Event](#) [Logout](#) [John Doe](#)

Contact Support

NextEvent Support

Where are my saved events?
Go to /savedConnections or Click on SignUp/Login
[Go to Saved Events](#)

How to find an event listing and event details?
Go to /connections or Click on Connections in the Navbar, For details click on the event you like.
[Go to Event Listing](#)

Still need help?
We're working on our customer support portal soon


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[Contact Support](#) [About Us](#)

About Us

This page provides details about the application and what it does

Audience : General Users

 [Connections](#) [Create Event](#) [Logout](#) [John Doe](#)

About NextEvent

We're here to shake a leg with you!

NextEvent is bringing people together through the power of live experiences - and NextEvent Customer Experience Team is the team that thrives to make it happen.

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Entity - Relationship Diagram

