Shawn Snyder Reservation Application

Date Presented: Feb 21, 2020



#### A little about me:

Even during high-school I had a conscientious activity to accomplish something by learning computer programming. After I graduated, I was taken in by a company called Kanone Inc. who taught me front end web development. After that I got a part time job as a cook and have been there since. While working I decided to go to college for computer science. After the first semester I learned of Centriq and thought... I keep my college education available and get to learn what I know I want to do. It's a win-win for me.

### Things I learned from this project:

By developing this project, I learned how important planning is (database wise), and why developing one you have got to make sure you got everything tied together correctly. I learned to spare no small detail. This experience also made me more familiar with accessing related columns in different tables to display them in the front end. Also... just using DateTime instead of military time in an attempt to save database space, saves from a headache later.

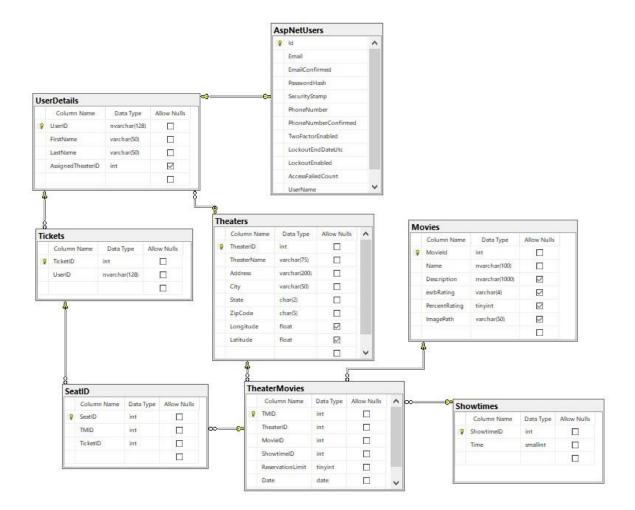
### Why choose this project type:

Soon before starting this project I had gone to see about getting some movie tickets one weekend. By ordering them online I thought... "Can I make a webpage that was even more streamlined and easier to do?".

### REQUIREMENTS FOR THE PROJECT:

- Application must have at least 3 roles
- App must work on a mobile device
- Admins must have full CRUD functionality
- Employees must be able to see reservations but NOT edit
- Sensitive information must be shielded from non-authorized users

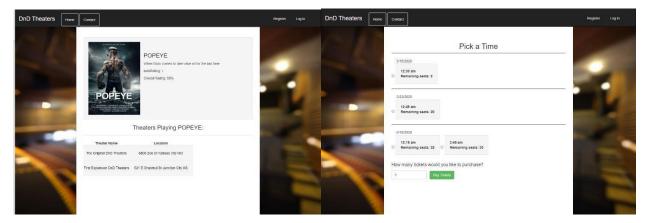
# Database Diagram:



### The Pages Worth Making Note Of:

### Selecting a Theater

## Selecting the number of tickets



These 2 pages are worth bringing up because this is where the magic happens. On the selecting a theater page, 2 things are accomplished. It shows you the information on the movie that you would want to know about as well as offer locations that are currently playing that movie.

On the second page (selecting the number of tickets), shows only showtimes for that movie at that theater grouped by day and if:

- 1) The show hasn't already started
- 2) There is available seating at any particular showtime

On the second page there are several checks to make sure that the user is prompted if they did something wrong and to keep them from doing something that would cause an error. It keeps them from getting more tickets than what is allowed, and they can't get tickets where there is no showtime.

After the user finishes selecting the time and place, the program will take care of everything else in the background. It gives them a ticket and assigns those tickets to the corresponding showtime and the remaining seats get updated accordingly.

This code was made with the intention that it would have to deal with a worse case user scenario and it would still make the pages previously listed work:

```
[HttpGet]
public ActionResult GetReservation(int? theaterID, int? movieID)
{
    Session["selectedTheater"] = theaterID;
    Session["selectedMovie"] = movieID;
    if (theaterID == null || movieID == null)
    {
        return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
    }
    var theaterMovies = db.TheaterMovies.Include(t => t.Movy).Include(t => t.Showtime).Include(t => t.Theater).Include(t => t.SeatIDs);
    var movies = theaterMovies.Where(x => (x.ReservationLimit - x.SeatIDs.Count) > 0 && x.TheaterID == theaterID && x.MovieID == movieID && x.Date > DateTime.Now).ToList();
    return View(movies);
}
```

^ The code above remembers what the user was trying to see and where they were trying to see it. It also controls what showtimes can be seen by the user.

```
<script>
    function updateForm(tmid, limit) {
        document.getElementById("tmid").value = tmid;
        document.getElementById("nbrTickets").max = limit;
    }
</script>
```

^ The code above keeps the form updated with the maximum number of tickets the user can get at one time (small detail but the code is easy and is extremely important for form functionality).

^ The snippet of code below is how the view builds out time selection for the user to choose from. This is fed to the previous script above to keep people from overbooking.

```
foreach (var day in plates)

string ampm;

cdiv style="border-top:2px solid gray;padding-top:1.5em;padding-left:20px"> @day.ToShortDateString()</div>

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day))

foreach (var time in Nodel.Winere(x > x.Date == day)

foreach (var time in
```

```
[HttpPost]
public ActionResult MakeReservation(int? numOfTickets, int? tmid)
           if (numOfTickets < 1 || numOfTickets == null || tmid == null || tmid == 0)
                      var\ theaterMovies = db.TheaterMovies.Include(x \Rightarrow x.Movy).Include(x \Rightarrow x.Showtime).Include(x \Rightarrow x.Theater).Include(x \Rightarrow x.SeatIDs);
                       TheaterMovy tm = db.TheaterMovies.Where(x => x.TMID == tmid).SingleOrDefault();
                      Session["error"] = "you missed something. Double check you chose a time AND how many tickets you want";
return RedirectToAction("GetReservation", new { theaterID = (int)Session["selectedTheater"], movieID = (int)Session["selectedMovie"] });
           string userID;
           if (Request.IsAuthenticated)
                      userID = User.Identity.GetUserId();
           else
                      userID = "761aa9be-9849-4596-a8e7-d30611343cb9";
           for (int i = 0; i < numOfTickets; i++)
                      Ticket t = new Ticket();
                      t.UserID = userID:
                      db.Tickets.Add(t);
           db.SaveChanges();
           var \ purchased Tickets = db.Tickets. Where (x => x.UserID == userID). Order By (x => x.TicketID). Take ((int) numOfTickets). To List(); the purchased Tickets is the purchased Tickets 
           foreach (var item in purchasedTickets)
                      SeatID s = new SeatID();
                      s.TMID = (int)tmid;
                       s.TicketID = item.TicketID;
                      db.SeatIDs.Add(s);
           db.SaveChanges();
           return View();
```

^ The above code here is the handler that does all the work for the user after they made their selections. It first checks if everything is valid, then assigns the user the amount of tickets they wanted, and then assigns those tickets to the showtime.

8817 E 81 St Kansas City, MO, 64138 816-590-0500 Snydercoding.com Shawnmsnyder717@outlook.com

# SHAWN SNYDER

OBJECTIVE My goal is to get into a position where I can apply my skills to create new projects,

and more importantly grow my skills and knowledge of technologies to do bigger

and better projects.

**TECHNOLGIES** 

& SOFT SKILLS Technologies: HTML5, CSS3, Java Script, C#, React, npm, jQuery, Json

Soft Skills: Problem solver, Reliable, Easy to work with.

EXPERIENCE COOK HELPER: LITTLE SISTERS OF THE POOR

March 2018 - Present

Help prepare and portion meals, deserts, special requests, and special diets for about 100

people and fill in when needed.

EDUCATION CENTRIQ TRAINING – 1740 W 92 ST KANSAS CITY MO

Full Stack Web Developer Track

**KANONE INC – NO ADDRESS** 

Front End Development Course

REFERENCES TINA LOWE

Dietitian, Little Sister of the Poor Phone: 913-

636-8565

**MARGE CLANAHAN** 

Kitchen Manager, Little Sister of the Poor Phone: 816-

668-2470