

# National Park Geek Capstone Project

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## Requirements:

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### 1. Home Page

- View an alphabetical list of all parks
  - Show: Picture, Name, Description
- Select a park and go to Park Detail Page

### 2. Detail Page

- Show ALL data about the selected park
- 5-Day Expected Weather Forecast
  - Show: Image & High/Low temperatures with F or C
  - For Today, include a "recommendation" based on the forecast
    - Snow: Pack snowshoes
    - Rain: Pack rain gear and wear waterproof shoes
    - Thunderstorms: Seek shelter and avoid hiking on exposed ridges
    - Sun: Pack sunblock
  - For Today, include a "recommendation" based on temperature
    - Temp > 75: Bring an extra gallon of water
    - ABS Temp range > 20: Wear breathable layers
    - Temp < 20: Beware of the dangers of exposure to frigid temperatures
  - Select Fahrenheit or Celsius
    - Must be remembered in **SESSION**

### 3. Survey Page

- To *vote* on a park
  - Select favorite park from a drop-down-menu of all park names
  - Enter email address & residence state
  - Select activity level from a drop-down-menu
    - Choices: Inactive, Sedentary, Active, Extremely Active
  - ALL fields are **REQUIRED** and must be **VALIDATED**
  - Click Submit and be directed to the Favorite Parks Page

### 4. Favorite Parks Page

- List parks in descending order of the number of *votes* they have
- Ties in alphabetical order
- Show: Name & count

- Do not include parks with 0 votes

## Park Codes:

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**CVNP** - Cuyahoga Valley National Park

**ENP** - Everglades National Park

**GNP** - Glacier National Park

**GCNP** - Grand Canyon National Park

**GTNP** - Grand Teton National Park

**GSMNP** - Great Smoky Mountains National Park

**MRNP** - Mount Rainier National Park

**RMNP** - Rocky Mountain National Park

**YNP** - Yellowstone National Park

**YNP2** - Yosemite National Park

## Models:

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### 1. ParkForList:

- **ParkCode** - varchar(10) - string
- **ParkName** - varchar(200) - string
- **ParkDescription** - varchar(max) - string

### 2. ParkDetails:

- **ParkCode** - varchar(10) - string
- **ParkName** - varchar(200) - string
- **ParkState** - varchar(30) - string
- **Acreage** - int
- **ElevationInFeet** - int
- **MilesOfTrail** - real - double
- **NumberOfCampsites** - int
- **Climate** - varchar(100) - string
- **YearFounded** - int
- **AnnualVisitorCount** - int
- **InspirationalQuote** - varchar(max) - string
- **InspirationalQuoteSource** - varchar(200) - string
- **ParkDescription** - varchar(max) - string
- **EntryFeeInDollars** - int (with \$) - decimal (with \$)
- **NumberOfAnimalSpecies** - int
- **DayOfWeather** - Weather

- fiveDayForecastValue - int
- lowInFahrenheit - int
- lowInCelsius - int
- highInFahrenheit - int
- highInCelsius - int
- forecast - varchar(100) - string
- **SurveyCount** - int

### 3. Weather:

- **ParkCode** - varchar(10) - string
- **FiveDayForecastValue** - int
  - 1 = Today
  - 2 = Tomorrow
  - 3 = The Next Day
  - 4 = The Day after That
  - 5 = The Next Day after That
- **LowInFahrenheit** - int
- **HighInFahrenheit** - int
- **Forecast** - varchar(100) - string

### 4. Survey:

All fields are **required** and need **validation**

- **FavoritePark** - string (use parkCode, but show parkName)
- **EmailAddress** - string
- **ResidenceState** - string
- **ActivityLevel** - string

## DAO Interfaces & DAOs:

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### 1. IParkDAO

- GetAllParks List
- GetParkDetail Park
- GetAllParkCodesAndNames List
- GetFavoriteParks List

### 2. ISurveyDAO

- AddSurvey bool

3. ParkDAO

4. SurveyDAO

## Controllers:

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1. HomeController

### Controller Actions:

- Home [HttpGet]
- ParkDetail [HttpGet]
- Survey [HttpGet]
- Survey [HttpPost]
- FavoriteParks [HttpGet]

## Views:

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1. Home

- Index
- Detail
- Survey
- FavoriteParks

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