



CPSC304 Project

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Links

☰ Property	Aa link
repo	https://github.students.cs.ubc.ca/CPSC304-2022W-T1/project_b2j9q_j4n4c_j9w5n
canada park main page	https://www.alltrails.com/canada/national-parks
canada park individual page	https://www.alltrails.com/parks/canada/alberta/banff-national-park

Timeline

Aa 이름	📅 날짜	👥 담당자	⌚ 상태
<u>PROJECT SETUP</u>	@November 1, 2022 → November 5, 2022		
<u>[B][JK].trail list</u>	@November 5, 2022 → November 8, 2022		
<u>[B][JY].program list</u>	@November 5, 2022 → November 8, 2022		
<u>[B][YJ].park list</u>	@November 5, 2022 → November 8, 2022		
<u>[B][JK].trail filters</u>	@November 9, 2022 → November 15, 2022		
<u>[B][JY].trail filters</u>	@November 9, 2022 → November 15, 2022		
<u>[B][YJ].park filters</u>	@November 9, 2022 → November 15, 2022		
<u>[E][JK].trails</u>	@November 16, 2022 → November 22, 2022		
<u>[E][JY].park/program</u>	@November 16, 2022 → November 22, 2022		
<u>[E][YJ].park</u>	@November 16, 2022 → November 22, 2022		
<u>demo</u>	@November 23, 2022 → November 24, 2022		
<u>MERGE</u>			

Aa 이름	날짜	담당자	상태
<u>M4 DEADLINE</u>	@November 25, 2022		

API Docs

APIs

- main
- trail
- park

Tasks

- ▼ backend
- park list
 - park search/filter ⇒
 - trail list
 - trail search/filter ⇒
 - program info list

▼ frontend

- Park page
 - park list
 - park search/filter component
- trail page per park
 - trail list
 - trail search/filter component
 - program info
- (optional) trail detail page

▼ Jieun Kim

- Backend
 - trail list
 - trail filters opt3, opt4
- Frontend
 - trail page - trails

▼ Ji Young Kim

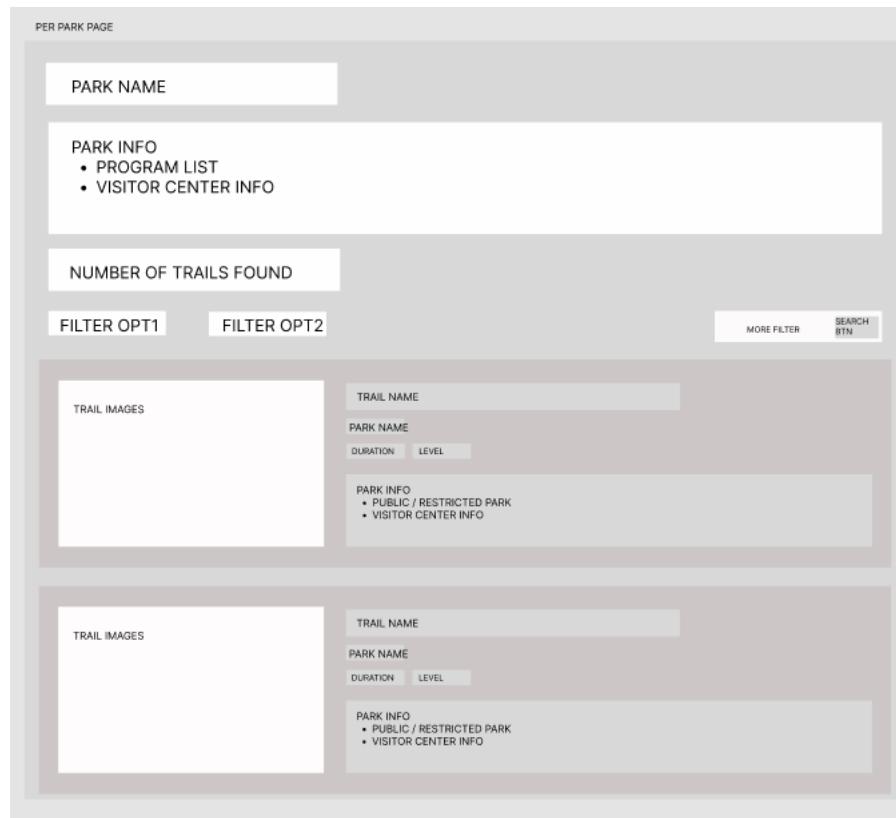
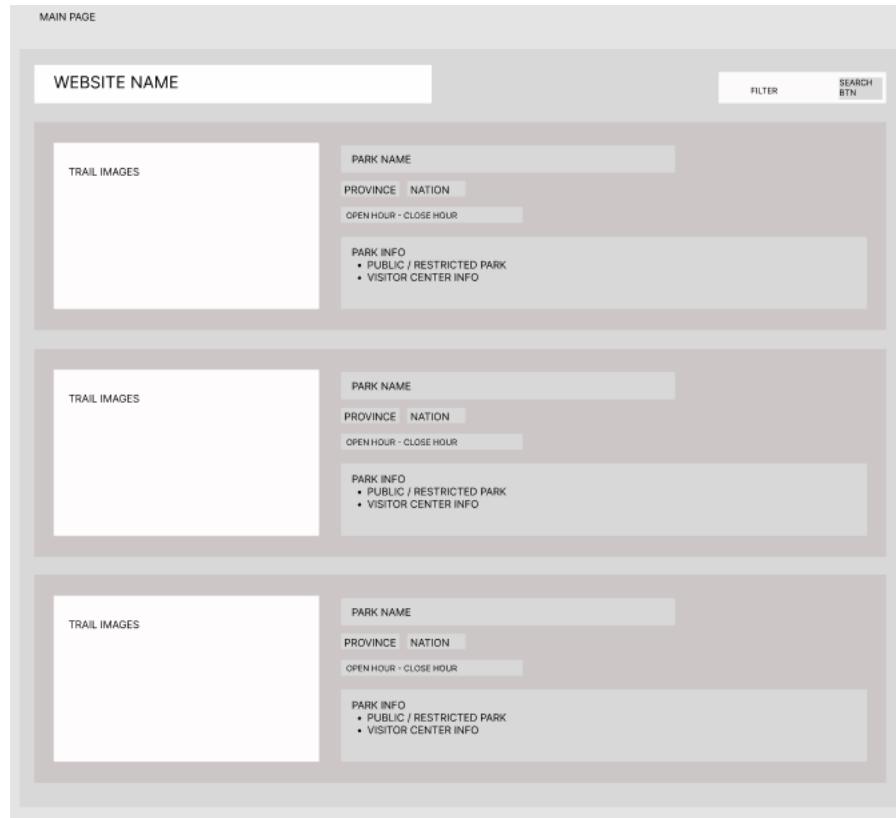
- Backend
 - program list
 - trail filters opt1, opt2
- Frontend
 - trail page - park info / program info

▼ Yunmi Ju

- Backend
 - park list
 - park search/filter
- Frontend
 - park search/filter
 - main page (parks)

MOCK IMAGE

▼ FRONTEND MOCK



SQL

▼ CREATE TABLES

```
CREATE TABLE Countries
(
    country_name CHAR(100) PRIMARY KEY
);

CREATE TABLE Provinces
(
    id           INT PRIMARY KEY,
    province_name CHAR(100),
    country_name CHAR(100) NOT NULL,
    FOREIGN KEY (country_name)
        references Countries (country_name)
        ON DELETE CASCADE
);

CREATE TABLE Parks
(
    id           INT PRIMARY KEY,
    province_id INT NOT NULL,
    park_name   CHAR(100),
    park_address CHAR(200),
    open_hour   CHAR(50),
    close_hour  CHAR(50),
    FOREIGN KEY (province_id)
        references Provinces (id)
        ON DELETE CASCADE
);

CREATE TABLE Public_parks
(
    id           INT PRIMARY KEY,
    camping_site NUMBER(1) DEFAULT 0,
    FOREIGN KEY (id)
        references Parks (id)
        ON DELETE CASCADE
);

CREATE TABLE Restricted_parks
(
    id           INT PRIMARY KEY,
    daily_capacity INT,
    permit_type   CHAR(10),
    FOREIGN KEY (id)
        references Parks (id)
        ON DELETE CASCADE
);

CREATE TABLE Seasons
(
    season_name CHAR(100) PRIMARY KEY
);

CREATE TABLE Visitor_centers
(
    id           INT PRIMARY KEY,
    park_id      INT NOT NULL UNIQUE,
    branch_name  CHAR(200),
    email        CHAR(100),
    center_address CHAR(200),
    FOREIGN KEY (park_id)
        references Parks (id)
        ON DELETE CASCADE
);
```

```

CREATE TABLE Trail_level
(
    distance      FLOAT,
    difficulty   CHAR(100),
    duration     float,
    PRIMARY KEY (distance, difficulty)
);

CREATE TABLE Trail_info
(
    trail_name      CHAR(200),
    park_id        INT,
    difficulty     CHAR(100),
    distance       FLOAT NOT NULL,
    trail_description CHAR(300),
    image_url      CHAR(200),
    PRIMARY KEY (trail_name, park_id, difficulty),
    FOREIGN KEY (park_id)
        references Parks (id)
        ON DELETE CASCADE,
    FOREIGN KEY (distance, difficulty)
        references trail_level (distance, difficulty)
        ON DELETE CASCADE
);

CREATE TABLE Huts
(
    id            INT PRIMARY KEY,
    trail_name    CHAR(200) NOT NULL,
    park_id       INT      NOT NULL,
    difficulty    CHAR(100) NOT NULL,
    beds          INT,
    FOREIGN KEY (trail_name, park_id, difficulty)
        references trail_info (trail_name, park_id, difficulty)
        ON DELETE CASCADE,
    FOREIGN KEY (park_id)
        references Parks (id)
        ON DELETE CASCADE
);

CREATE TABLE Trail_season
(
    trail_name    CHAR(200),
    season_name   CHAR(100),
    park_id       INT,
    difficulty    CHAR(100),
    PRIMARY KEY (trail_name, park_id, difficulty, season_name),
    FOREIGN KEY (trail_name, park_id, difficulty)
        references Trail_info (trail_name, park_id, difficulty)
        ON DELETE CASCADE,
    FOREIGN KEY (season_name)
        references seasons (season_name)
        ON DELETE CASCADE
);

CREATE TABLE Managers
(
    id            INT PRIMARY KEY,
    manager_name  CHAR(100)
);

CREATE TABLE Program_manager
(
    visitor_center_id INT,
    program_name     CHAR(200),
    section_num      INT,
    manager_id       INT NOT NULL,
    PRIMARY KEY (visitor_center_id, program_name, section_num),
    FOREIGN KEY (visitor_center_id)
        references Visitor_centers (id),
    FOREIGN KEY (manager_id)
        references managers (id)
        ON DELETE CASCADE
);

```

```

CREATE TABLE Program_info
(
    id          INT PRIMARY KEY,
    visitor_center_id INT      NOT NULL,
    program_name     CHAR(200) NOT NULL,
    section_num      INT      NOT NULL,
    FOREIGN KEY (visitor_center_id) references Visitor_centers (id)
        ON DELETE CASCADE,
    FOREIGN KEY (visitor_center_id, program_name, section_num)
        references program_manager (visitor_center_id, program_name, section_num)
        ON DELETE CASCADE
);

```

▼ INSERT

```

INSERT ALL
    INTO Country(cname)
VALUES ('CANADA')
INTO Country(cname)
VALUES ('MEXICO')
INTO Country(cname)
VALUES ('KOREA')
INTO Country(cname)
VALUES ('US')
INTO Country(cname)
VALUES ('FRANCE')
SELECT *
FROM dual;

INSERT ALL
    INTO Province(id, cname)
VALUES (11, 'CANADA')
INTO Province(id, cname)
VALUES (21, 'US')
INTO Province(id, cname)
VALUES (12, 'CANADA')
INTO Province(id, cname)
VALUES (13, 'CANADA')
INTO Province(id, cname)
VALUES (14, 'CANADA')
SELECT *
FROM dual;

INSERT ALL
    INTO Park(id, province_id, park_name, park_address, open_hour, close_hour)
VALUES (101, 11, 'Strathcona Provincial Park', '857 Malkin Ave, Vancouver, BC V6A 2K5', '09', '17')
INTO Park(id, province_id, park_name, park_address, open_hour, close_hour)
VALUES (102, 11, 'Cypress Provincial Park', 'West Vancouver, BC VON 1G0', '09', '17')
INTO Park(id, province_id, park_name, park_address, open_hour, close_hour)
VALUES (103, 11, 'Simson Provincial Park', 'Halfmoon Bay, BC V0N 1Y0', '08', '16')
INTO Park(id, province_id, park_name, park_address, open_hour, close_hour)
VALUES (201, 21, 'Death Valley National Park', 'CA 190 from Death Valley Junction, CA', '00', '00')
INTO Park(id, province_id, park_name, park_address, open_hour, close_hour)
VALUES (202, 21, 'Channel Islands National Park', 'Ventura, CA 93001, United States', '08', '17')
INTO Park(id, province_id, park_name, park_address, open_hour, close_hour)
VALUES (104, 11, 'Beaver Creek Provincial Park', '8801 BC-22A, Trail, BC V1R 4W6', '00', '00')
INTO Park(id, province_id, park_name, park_address, open_hour, close_hour)
VALUES (105, 11, 'Cedar Point Provincial Park', 'Cariboo F, BC V0L 1N0', '08', '16')
INTO Park(id, province_id, park_name, park_address, open_hour, close_hour)
VALUES (106, 11, 'Ferry Island Provincial Park', 'Fraser Valley, BC V0X 1X0', '00', '00')
INTO Park(id, province_id, park_name, park_address, open_hour, close_hour)
VALUES (203, 21, 'Caspar Headlands State Natural Reserve', '14260 Headlands Dr, Mendocino, CA 95460, United States',
      '10', '1')
INTO Park(id, province_id, park_name, park_address, open_hour, close_hour)
VALUES (107, 11, 'Gibson River Provincial Park', 'S Gibson Lake Rd, Severn, ON L0K 1S0', '02', '03')
SELECT *
FROM dual;

INSERT ALL
    INTO Public_park(id, camping_site)
VALUES (101, 1)
INTO Public_park(id, camping_site)
VALUES (102, 1)
INTO Public_park(id, camping_site)
VALUES (103, 1)
INTO Public_park(id, camping_site)

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VALUES (201, 0)
INTO Public_park(id, camping_site) VALUE (202, 0)
INTO Public_park(id)
VALUES (203)
SELECT *
FROM dual;

INSERT ALL
    INTO Restricted_park(id, daily_capacity, permit_type)
VALUES (104, 80, 'A')
    INTO Restricted_park(id, daily_capacity, permit_type)
VALUES (105, 120, 'A')
    INTO Restricted_park(id, daily_capacity, permit_type)
VALUES (106, 60, 'B')
    INTO Restricted_park(id, daily_capacity, permit_type)
VALUES (203, 80, 'B')
    INTO Restricted_park(id, daily_capacity, permit_type)
VALUES (107, 100, 'A')
SELECT *
FROM dual;
)

INSERT ALL
    INTO season(sname)
VALUES ('SPRING')
    INTO season(sname)
VALUES ('SUMMER')
    INTO season(sname)
VALUES ('FALL')
    INTO season(sname)
VALUES ('WINTER')
    INTO season(sname)
VALUES ('ALL')
SELECT *
FROM dual;

INSERT ALL
    INTO visitor_center(id, park_id, center_name, email, center_address)
VALUES (1001, 101, 'Strathcona Wilderness Institute', 'strathconawilderness@gmail.com', 'Courtenay, British Columbia V9N 5N5')
    INTO visitor_center(id, park_id, center_name, email, center_address)
VALUES (1002, 102, 'Cypress Provincial Park visitor center', 'contact@cypressmountain.com', 'West Vancouver, BC V0N 1G0')
    INTO visitor_center(id, park_id, center_name, email, center_address)
VALUES (1004, 104, 'Beaver Creek Institute', 'beavercreek@gmail.com', '8801 BC-22A, Trail, BC V1R 4W6 CANADA')
    INTO visitor_center(id, park_id, center_name, email, center_address)
VALUES (2001, 201, 'Death Valley National Park Visitor Center', 'deathvalleyvs@gmail.com', 'P.O. Box 579 Death Valley CA 92328 US')
    INTO visitor_center(id, park_id, center_name, email, center_address)
VALUES (2003, 203, 'Caspar Headlands State Natural Reserve Visitor Center', 'casparheadlandsmanage@gmail.com', '14261 Headlands Dr Mendocino, CA 95460 US')
SELECT *
FROM dual;

INSERT ALL
    INTO Trail_level(distance, tlevel, duration)
VALUES (5.6, 'A', 'UNDER HALF')
    INTO Trail_level(distance, tlevel, duration)
VALUES (6.0, 'C', 'HALF')
    INTO Trail_level(distance, tlevel, duration)
VALUES (4.8, 'A', 'UNDER HALF')
    INTO Trail_level(distance, tlevel, duration)
VALUES (2.9, 'A', 'UNDER HALF')
    INTO Trail_level(distance, tlevel, duration)
VALUES (5.1, 'B', 'HALF')
SELECT *
FROM dual;

INSERT ALL
    INTO Trail_info(tname, park_id, tlevel, distance, trail_description)
VALUES ('Dog Mountain Trail', 101, 'A', 5.6,
        'Discover this 5.6-km out-and-back trail near North Vancouver, British Columbia. Generally considered a moderately challenging')
    INTO Trail_info(tname, park_id, tlevel, distance, trail_description)
VALUES ('Stawamus Chief Trail', 101, 'C', 6.0,
        'Experience this 6.0-km loop trail near Squamish, British Columbia. Generally considered a challenging route, it takes an average')
    INTO Trail_info(tname, park_id, tlevel, distance, trail_description)
VALUES ('Wapta Falls Trail', 102, 'A', 4.8,
        'Try this 4.8-km out-and-back trail near Field, British Columbia. Generally considered an easy route, it takes an average of 1')
    INTO Trail_info(tname, park_id, tlevel, distance, trail_description)
VALUES ('Lighthouse Loop', 201, 'A', 2.9,
        '')

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'Generally considered an easy route, it takes an average of 44 min to complete.')
INTO Trail_info(tname, park_id, tlevel, distance, trail_description)
VALUES ('Emerald Lake Loop', 103, 'B', 5.1,
        'Generally considered an easy route, it takes an average of 1 h 20 min to complete.')
SELECT *
FROM dual;

INSERT ALL
  INTO Hut(id, tname, park_id, tlevel, beds)
    VALUES (1, 'Dog Mountain Trail', 101, 'A', 2)
  INTO Hut(id, tname, park_id, tlevel, beds)
    VALUES (2, 'Stawamus Chief Trail', 101, 'C', 2)
  INTO Hut(id, tname, park_id, tlevel, beds)
    VALUES (3, 'Wapta Falls Trail', 102, 'A', 1)
  INTO Hut(id, tname, park_id, tlevel, beds)
    VALUES (4, 'Lighthouse Loop', 201, 'A', 2)
  INTO Hut(id, tname, park_id, tlevel, beds)
    VALUES (5, 'Emerald Lake Loop', 103, 'B', 5)
SELECT *
FROM dual;

INSERT ALL
  INTO Trail_season(tname, sname, park_id, tlevel)
    VALUES ('Dog Mountain Trail', 'ALL', 101, 'A')
  INTO Trail_season(tname, sname, park_id, tlevel)
    VALUES ('Stawamus Chief Trail', 'SUMMER', 101, 'C')
  INTO Trail_season(tname, sname, park_id, tlevel)
    VALUES ('Wapta Falls Trail', 'FALL', 102, 'A')
  INTO Trail_season(tname, sname, park_id, tlevel)
    VALUES ('Lighthouse Loop', 'SPRING', 201, 'A')
  INTO Trail_season(tname, sname, park_id, tlevel)
    VALUES ('Emerald Lake Loop', 'SUMMER', 103, 'B')
SELECT *
FROM dual;

INSERT ALL
  INTO Manager(id, mname)
    VALUES (1, 'Jenny')
  INTO Manager(id, mname)
    VALUES (2, 'Olivia')
  INTO Manager(id, mname)
    VALUES (3, 'Emma')
  INTO Manager(id, mname)
    VALUES (4, 'Jean')
  INTO Manager(id, mname)
    VALUES (5, 'Jhon')
SELECT *
FROM dual;

INSERT ALL
  INTO Program_info(id, visitor_center_id, pname, section_num)
    VALUES (1, 1001, 'Places of Wonder and Discovery', 101)
  INTO Program_info(id, visitor_center_id, pname, section_num)
    VALUES (2, 1002, 'Kicking Horse', 102)
  INTO Program_info(id, visitor_center_id, pname, section_num)
    VALUES (3, 1004, 'Coastal Carnivores', 103)
  INTO Program_info(id, visitor_center_id, pname, section_num)
    VALUES (4, 2001, 'Habitat Conservation', 104)
  INTO Program_info(id, visitor_center_id, pname, section_num)
    VALUES (5, 2003, 'Junior Ranger Angler', 105)
SELECT *
FROM dual;

INSERT ALL
  INTO Program_manager(visitor_center_id, pname, section_num, manager_id)
    VALUES (1001, 'Places of Wonder and Discovery', 101, 1)
  INTO Program_manager(visitor_center_id, pname, section_num, manager_id)
    VALUES (1002, 'Kicking Horse', 102, 2)
  INTO Program_manager(visitor_center_id, pname, section_num, manager_id)
    VALUES (1004, 'Coastal Carnivores', 103, 3)
  INTO Program_manager(visitor_center_id, pname, section_num, manager_id)
    VALUES (2001, 'Habitat Conservation', 104, 4)
  INTO Program_manager(visitor_center_id, pname, section_num, manager_id)
    VALUES (2003, 'Junior Ranger Angler', 105, 5)
SELECT *
FROM dual;

```

