Outdoor Adventures Portfolio

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Project Group 24:

Brayden Tremper & Jasmine Snyder

Website:

http://flip1.engr.oregonstate.edu:4673/

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Executive Summary

Step1: Changes not documented.

Step 2:

Made upgrades to the draft version of the overview. Some attributes were changed for example 'anticipatedTemperature' attribute was changed to 'anticipatedAvgTemperature.' Each of the tables now has their corresponding ID in all sections. PackingList table now has a listID as PK and tripID, participantID as FK.

Step 3:

Renaming of entities such that they are consistent between the overview and the diagram were fixed. More specifically entities are now all singular instead of mixing singular and plural. Entities are now capitalized and consistent with camelCase. Primary and Foreign keys were fixed by adding and adjusting ID's to represent this. All the tables now have corresponding ID in sections. Revised the details within the overview to include how many trips would be per year and how many participants were to be included in each trip.

Step 4: Changes not documented.

Step 5:

Converted website to node.js platform to use handlebars functions and node forever to keep the site up and running. The Schema was fixed due to the arrows being 'confusing and not defining' the direction of a relationship between two entities. There was a joining table for trip and participant that was created. A table was also created for the relationship between Trip and Participant so that we could store more than one participant in our trip.

Step 6:

Changes were made to the DDL query for the packingList table to allow tripID to be NULL. Filtering was implemented for both filtering participants and filtering for updating a trip. INSERT and DELETE functionality was added, as well as UPDATE. Users can now INSERT a new trip, and participant into trip with a nullable relationship between packingList. All CRUD functionalities have been implemented.

Project Outline

The Adventure Outdoor service takes 4 trips annually during all four seasons. Each trip will take 15-20 participants. A database driven website will record each of the participant's basic information and their level of experience for a trip through the Adventure Outdoor business. Participant's basic information will be stored for up to a full calendar year should they wish to join another trip.

In order to ensure the safety of those who are participating, the database driven website will allow for searching through the trips based on skills and experience. The database will keep track of what trips a participant has previously been a part of should they want to book another one in the future. It will also contain information on the location of the trips and it's conditions, as well as a packing list for participants to review. This will keep participants comfortable as they embark on their adventures.

Database Outline

Participant: Records the detailed basic information of those who will be going on each trip.
- <u>participantID:</u> int, auto_increment, unique, not NULL, PK
- firstName: varchar, not NULL
- lastName: varchar, not NULL
- email: varchar, not NULL
- age: int, not NULL
- phone: varchar, not NULL
- Relationship:
    - A M:M relationship between Participant and the Trip

Trip: Detailed information regarding trip details.
- <u>tripID:</u> int, auto_increment, unique, not NULL, PK
- tripType: varchar, not NULL
- distanceTraveled: int, not NULL
- experienceLevel: varchar, not NULL
- tripLength: int, not NULL
- Relationship:
    - A M:M relationship between Trip and the Participant
    - A 1:1 relationship between Trip and the Packing List
    - A 1:1 relationship between Trip and the Location

Packing List: Detailed Information regarding the packing list for the trip and participant.
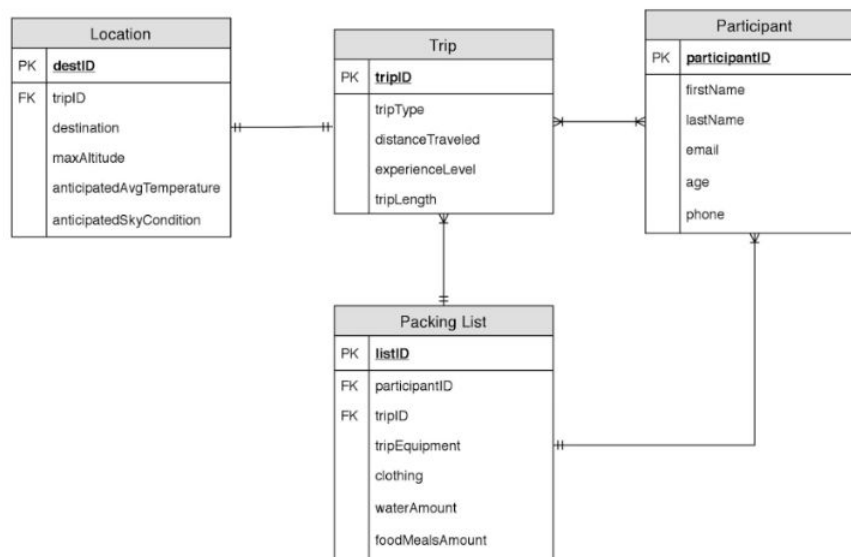- <u>listID:</u> int, auto_increment, unique, not NULL, PK
- participantID: int, FK, not NULL
- tripID: int, FK, not NULL
- tripEquipment: varchar

- clothing: varchar
- waterAmount: int
- foodMealsAmount: int
- Relationship:
  - A 1:M relationship between Packing List and the Trip
  - A 1:M relationship between Packing List and the Participant
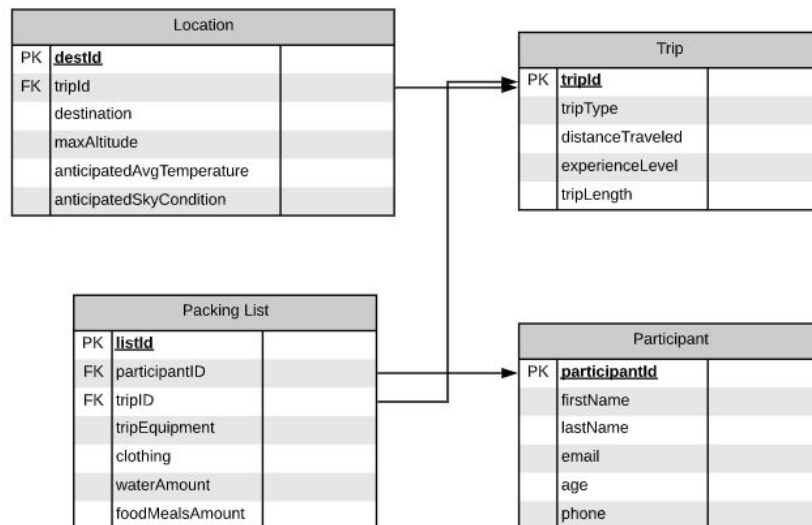
Location: Detailed information regarding the location for each trip.
- <u>destID:</u> int, auto_increment, unique, not NULL, PK
- tripID: int, FK, not NULL
- destination: varchar, not NULL
- maxAltitude: int, not NULL
- anticipatedAvgTemperature: int, not NULL
- anticipatedSkyCondition: varchar, not NULL
- Relationship:
  - A 1:1 relationship between Location and the Trip

ERD

Schema

Location		
PK	**destId**	
FK	tripId	
	destination	
	maxAltitude	
	anticipatedAvgTemperature	
	anticipatedSkyCondition	

Trip		
PK	**tripId**	
	tripType	
	distanceTraveled	
	experienceLevel	
	tripLength	

Packing List		
PK	**listId**	
FK	participantID	
FK	tripID	
	tripEquipment	
	clothing	
	waterAmount	
	foodMealsAmount	

Participant		
PK	**participantId**	
	firstName	
	lastName	
	email	
	age	
	phone	

UI Pages/Crud Steps

CREATE/INSERT/ADD NEW participant to the M:M relationship between trips, with a NULLABLE relationship to the packing list.

Book A Trip

Home   Book A Trip   Trip Info   Participants   Admin

Book A Trip

For exact info about this page see "Book A Trip" on the homepage.

Participant Information

First name: _____

Last name: _____

Email: _____

Age: _____

Phone: _____

Please Select Your Trip

Please Select A Trip ▼

Would you like to create a packing list?

☑ Yes

What Do You Plan on Taking?

Trip Equipment: _____

Clothing: _____

Water Amount: _____

Food Meals Amount: _____

Submit

READ/DISPLAY trip information including the linked relationships of its associated locations and packinglists(if applicable).

Home   Book A Trip   Trip Info   Participants   Admin

Trip Information

For exact info about this page see "Trip Info" on the homepage.

Trip

tripID	tripType	distanceTraveled (miles)	experienceLevel	tripLength (days)
1	Hiking	25	high	5
2	Exploring	15	low	10
3	Rafting	30	mid	1
4	Biking	10	low	1

Location

destId	tripID	destination	maxAltitude	anticipatedAvgTemperature	anticipatedSkyCondition
1	1	Alps	15000	40	Cloudy
2	2	Yellowstone	8000	70	Sunny
3	3	New Grand Canyon	3000	90	Sunny
4	4	Corvallis	2000	70	Sunny

Packing List

listId	participantId	tripID	tripEquipment	clothing	waterAmount(gallons)	foodMealsAmount
1	2	1	Hiking Shoes	Jacket	5	15
2	3	1	Tent	Sweats	10	30
3	1	2	Life Jacket	Swimwear	2	3

READ/BROWSE/DISPLAY/DELETE participants with the ability to filter participants according to the tripID they are attending and delete a participant from a trip.

| Home | Book A Trip | Trip Info | Participants | Admin |

Participants

For exact info about this page see "Participants" on the homepage.

Enter the tripID to find participants for that trip

tripID: 1   Submit

All Participants

tripID	participantID	firstName	lastName	Cancel Trip?
1	2	Harry	Potter	Cancel
1	3	Luke	Skywalker	Cancel
2	1	George	Washington	Cancel
3	5	Brayden	Tremper	Cancel

CREATE/INSERT/ADD NEW trip including its necessary relationships as well as the ability to redirect to the update trip page based on the tripID.

Admin

For exact info about this page see "Admin" on the homepage.

Add a new Trip

tripType	distanceTraveled (miles)	experienceLevel	tripLength (days)

destination	maxAltitude	anticipatedAvgTemperature	anticipatedSkyCondition

Submit

Adjust a current trip

Enter the tripID: 1

Proceed

READID/DISPLAY/UPDATE a trip according to its tripID by reading its current information and allowing the ability to change the given information in a trip.

Admin

Trip: 1

tripType	distanceTraveled (miles)	experienceLevel	tripLength (days)
Hiking	25	high	5

destination	maxAltitude	anticipatedAvgTemperature	anticipatedSkyCondition
Alps	15000	40	Cloudy

Update

Note: If no trip has appeared then the trip you are currently trying to update doesn't exist. If you would like to create a new trip go the the previous page.