

DATE: October 8, 2017  
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SUBJECT: Project Proposal: Travel Ideas Database

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## PROJECT DESCRIPTION

My project would be the creation of a basic travel plan for adventurous travelers. This database will help its users figure out and organize travel plans for potential trips around the world. There are a great variety of travel plans one can accomplish, from simple to more complex, where a database would be useful to use.

## ENTITY TABLES

1. **Travelers** – They will have first names, last names, ids, phone numbers
2. **Destinations** – There are many locations a traveler can travel to consisting of cities, countries, states, towns
3. **Trip Duration** – The length of a trip can vary, consisting of a beginning travel date to the end travel date, number of days/weeks the trip will be, time of day a trip can start and end
4. **Activities** – There are a variety of activities a traveler can pursue when traveling, that can be either leisure activities or more strenuous, length of time an activity can take, or if an activity will cost money to do or not

## RELATIONSHIPS

1. **Travelers *must be going to at least one destination*** – This is a many-to-many relationship, because travelers can be going to many destinations.
2. **Destinations *must be associated to at least a single trip duration*** – This is a one-to-many relationship, where a destination can be visited multiple times meaning multiple trip durations, but there can only be one type of trip duration.  
For example, you can visit a single destination multiple times, but you cannot visit two or more destinations at the same time.
3. **Travelers *can pursue many activities*** – This is a many-to-many relationship, because many travelers can pursue many types of activities.
4. **Activities *can be done at many destinations*** – This is a many-to-many relationship, because many types of activities can be done at many destinations.