

University of British Columbia
Department of Computer Science

CPSC 304 W2 2019

Group Project - Implementation of a Relational Database

Project Title:	<i>Bucket List App</i>
Project Milestone:	Complete Files and Demo

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above.

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

Description

Bucket List is a platform that presents users with a plethora of experiences they can partake in through three categories: i) smaller, shorter activities, ii) larger, longer events and iii) food-based venues and attractions. Users are able to create an account and login to our website.

Subsequently, they can query and filter the aforementioned "bucket list items" based on time, location, popularity and price considerations. For those feeling particularly adventurous, we implemented a "Surprise Me!" button that returns a random item from any of the three categories.

Schema Considerations

While creating the final database, there were several schema changes that were made to make the tables more understandable in regards to the use case of the application. The following changes and their reasons are as specified below.

Table Changed	Changes Made
bucket_list_item	<ul style="list-style-type: none">• Added link attribute to provide website link to the bucket list item• Added a name attribute as a title for the bucket list item• Changed price to int for easier estimation of price for conversion from foreign currencies
food_restrictions (NEW)	<ul style="list-style-type: none">• Added to improve the clarity of the different categories of food restrictions
bucket_list_food (name change)	<ul style="list-style-type: none">• Changed restrictions from type varchar to int as per the food_restrictions table• Deleted the nutrition attribute as it was no long necessary• Restrictions are not null so that the user always knows if they should ask for any particular allergies
bucket_list_event (name change)	<ul style="list-style-type: none">• Both event_start and event_end timestamps are not null now as we can't have an event without knowing when it is
bucket_list_activity (name change)	<ul style="list-style-type: none">• Both activity_start and activity_end timestamps are not null for the same

	reason as listed above for event
admin	<ul style="list-style-type: none"> • Slight change of attribute name from password to admin_password
consumer	<ul style="list-style-type: none"> • Slight change of attribute name from password to consumer_password • Name and email cannot be null as we want to know our users and possibly send updates or confirmation emails
bucket_list_type (NEW)	<ul style="list-style-type: none"> • Added to improve the clarity of types and prevent errors if a bucket list type is changed
evaluation (NEW)	<ul style="list-style-type: none"> • Added to improve the clarity of whether a request is evaluated
item_request_requests	<ul style="list-style-type: none"> • Slight change in attribute name from type to bl_type_id and it cannot be null because we want to be able to categorize our bucket list items • Name and description cannot be null because we want to know what kind of item is to be added • Requested_date cannot be null since once the request is submitted the date is automatically added • Is_evaluated is now a foreign key that links to the evaluation table as per the new changes; also the default is set to 0 which means the request is pending to be approved
create_modifies_item	<ul style="list-style-type: none"> • Slight change in attribute name from date to created_modified_date as date is a reserved name • The create_modified_date cannot be null as this date should automatically be populated once the item is approved for creation or modification
item_request_evaluates	<ul style="list-style-type: none"> • Slight change in attribute name from date to evaluated_date as date is a reserved name • Is_approved is now a foreign key that

	links to the evaluation table as per the new changes; also the default is set to 0 which means the request is pending to be approved
goal_sets	<ul style="list-style-type: none">• Achieve_by_date is now default to the current date if the user doesn't have a any goals set• Added the default for is_achieved to 0 which means that that the goal isn't achieved