

CPSC 304 Project Cover Page

Milestone #: 3

Date: October 11, 2022

Group Number: 76

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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 the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

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

Milestone 3 Deliverable

TODO List

We will complete the back-end first, then front-end so that the functionality can be implemented along with GUI at once. We plan on all our group members working with an end-to-end approach, to ensure each member has a complete understanding of every aspect of the project.

Jason

Andy

West

1. Front end

- Adding data page (Andy)
 - Only for admin use, manual option to add data, however passenger activities get automatically logged in the database on the ship

Deadline: Nov 12

- User view page (West)
 - Passenger use. Can enter ticketID to view information about the cruise and ship amenities.
 - This page incorporates join, where the user specifies to display either activities or restaurants from ships connected to ticketID which require several joins.

Deadline: Nov 14

- Page to delete (JASON)
 - Admin users can delete tuples based on keys.

Deadline: Nov 16

- Page to update/modify (West)
 - This involves querying with selection and projection. Admin use. (JASON)

Deadline: Nov 18

- Average salary for each cruise ship (Andy)
 - Aggregation with group by. Admin use, business analytics

Deadline: Nov 20

- Page to view list of crew members doing at least x task (JASON)
 - Aggregation with having. Admin use for employee review?

Deadline: Nov 21

- Page to view ship with highest average passenger age. (Andy)
 - Nested aggregation with group by. Admin use, business analytics.

Deadline: Nov 22

- Page to view customers that have done every activity on that cruise ship (West)
 - Division

Deadline: Nov 23

2. Back end

- PHP (West) (Andy) (JASON)
- Connect database management system with frontend. ***

Deadline: Nov 24

- SQL
 - Need to set-up SQL database. (Andy)
 - INSERT OPERATION STATEMENTS for add data page (Andy)
 - DELETE OPERATION STATEMENTS for delete data page (JASON)
 - UPDATE OPERATION STATEMENTS for data modification page (West)
 - DDL CREATE TABLE Statements with proper attributes (JASON)
 - DML Write queries for hardcoded aggregations. (West)
 - Average salary for each cruise ship (Andy)
 - Crew members doing at least x number of tasks (West)
 - Cruise ship with highest average passenger age (JASON)

Deadline: Nov 8th

***Potential Challenge(s):

- Unfamiliar with PHP, and DBMS, could face difficulty.
- We may face difficulties designing our GUI to be appealing. We are not the most artistic people.

UI Design

Page to add data

(Insert Operation)

*Drop down menu
to select table to
insert data into*

Add Data

*SELECTED	----
TABLE	----
ATTRIBUTES	----
*	----
(user has to fill in the blanks)	

Page to delete data

(Delete Operation)

*Drop down menu
to select table to
delete data from*

Delete Data

*SELECTED	----
TABLE	----
ATTRIBUTES	----
*	----
(user has to fill in the blanks) (these will just be the primary keys of an entity)	

Page to query and modify data
(Update Operation and Selection and Projection)

*Drop down menu
to select which
table to query*

List of attributes to show (project)			Selection Criteria
1. Attribute 1	<input checked="" type="checkbox"/>		[hullID>5]
2. Attribute 2	<input checked="" type="checkbox"/>		[from = "Vancouver"]
3. Attribute 3	<input checked="" type="checkbox"/>		[to = "Victoria"]
users check mark the attributes they want to project			

After querying the data, the user will be able to
modify the data that they want to

Page to view public data about stuff on the cruise
(Join Operation (we join Ticket, Cruise, Activities and Restaurants))

Enter your ticket ID

Cruise Name: Princess Cruises		
Ticket Class: First Class		
Room Number: PC01-05		
Cruise Activities:		
ActivityName	Start	End
Swimming	12:00am	9:00pm
...
Cruise Restaurants:		
Restaurant Name	Open	Close
McDonalds	12:01am	12:00am

Page to view average salary on a cruise ship
(Aggregation with group by)

Find average salary of each hull ID

hullID	AVG(Salary)
1	\$80,000
2	\$85,000
...	...
...	...

Page to view crew members who are doing at least
X tasks
(Aggregation with Having)

Find crew members doing more than X tasks

crewID
1
2
...
...

Page to view ship with the highest average
passenger age
(Nested Aggregation)

Find the ship with the highest average
passenger age

hullID
1
2
...
...

Page to view customers that have done every
activity on that cruise ship

(Division)

passengerID
1
2
...
...