CPSC 304 Project Cover Page

Milestone #: 3

Date: 16-June-2023

Group Number: 17

Name	Student Number	CS Alias (Userid)	Preferred E-mail Address
Khammy Saychaleun	40259574	v1m0l	khammyschl@gmail.com
Keshav Gopinath	61086260	z8z2b	keshavkarthikk@gmail.com
Aayush Kogar	62235312	s7j9s	18aayushk@gmail.com

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

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Summary

Finding an affordable apartment is incredibly difficult in Vancouver, especially around the UBC area. The time-consuming process consists of exploring different areas, making hundreds of applications, and avoiding scams.

STUHOUSING is an application that helps students find housing in school areas by acting as a compiler of all housing available on different platforms and supporting search management. A school support contact (employee) will act as the middle-man for users and different platforms.

Our technology stack consists of:
Backend and Frontend: PHP
OS: Linux (Undergraduate Servers)
Database: Oracle

Timeline

Item	Due Date	Person IC
Build and populate the database	17th June, 2023	Keshav Gopinath
Complete the SQL queries	19th June, 2023	Kate Saychaleun Aayush Kogar
Complete the frontend pages	19th June, 2023	Keshav Gopinath Kate Saychaleun Aayush Kogar
Connect the SQL queries with front-end pages	20th June	Aayush Kogar
Debugging	21st June	Keshav Gopinath

		Planned SQL Functionality		
No	**Function**	**Use Case**	**Page**	**Person Doing**
1	Insert	**As a searcher**, create a new account	Sign Up	Aayush
		As a support contact, create a new account		
		As a support contact create a new unit	Unit Management	
		As a support contact create a new manager	Manager Management	
2	Delete	**As a support contact**, delete a unit	Unit Management	
3	Update	**As a searcher**, update your user details	Profile Page	
		As a support contact, update account information		
		As a support contact, update unit information	Unit Management	
		As a support contact, update the manager details	Manager Management	
4	Selection	**As a searcher,** select units which meet specification	Unit Search	
		As a support contact, select information on searcher	Profile Page (of searcher)	
5	Projection	**As a searcher,** see certain information on units which meet specification	Unit Search	Kate
6	Projection	**As a searcher,** see all information on specific unit	Unit Page	
7	Join	**As a searcher,** display manager information for a unit	Unit Page	
8	Aggregation	**As a searcher,** find the total number of units available.	Unit Search	

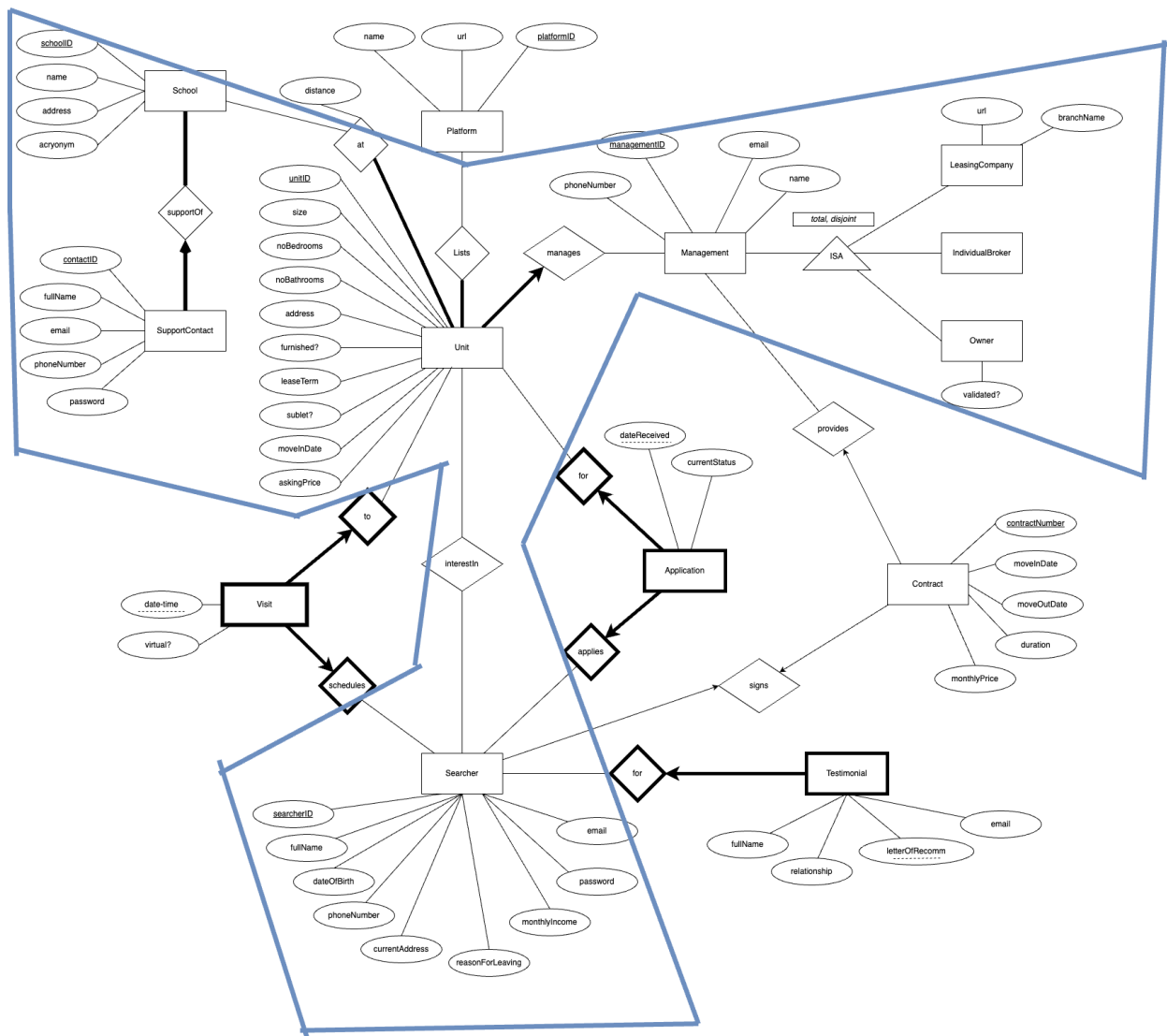| 9 | Aggregation by group by (with having) | **As a searcher,** find the average price of all units by number of bedrooms. | Unit Search | |
| 10 | Nested Aggregation by Group By | Find the minimum price of the unit, based on lease term, that costs more than the average price | Unit Search | |
| 11 | Division | **As a support contact,** find the names of searchers interested in all units which are X bedrooms. | Profile Searcher | Aayush |

We will add additional functionality on top of what is provided by the sample file in tutorial 6. Looking forward at the specifications of Milestone 4, we identified that we need to display the functioning of particular operations using SQL.

Front End Allocation

Pages	**Person Doing Frontend**
Sign Up	Keshav
Sign In	
Unit Management	
Management Manager	Khammy
Profile Page	
Unit Search	
Unit Page	Aayush
Profile Searcher	
Property Interested In Page	

Link To boilerplate php: https://www.students.cs.ubc.ca/~khammys/oracle-test.php

Implementation Functionality Being Build

Example Websites we will refer to when creating our website:

- https://www.ca.kayak.com/
- https://www.propertyguru.com.sg/