

Individual Assignment - I
COMP 3133 – Full Stack Development II
Total Points (12%)

Submission Deadline: Saturday, 26th Feb 2022 (Week07)

Note: All Students will maintain git repository and if choose to do a private repo, add me as collaborator (username is **pritamworld**)

No extension or last submission will be allowed as I have already added 1 more week for submission.

Late submission will be awarded ZERO points

Creating AirBnB GraphQL API

The main objective of this assignment is to demonstrate your knowledge about GraphQL API development. Refer class and lab code for the **GraphQL** examples. Create a NodeJS application and Git Repository having the name **studentId_comp3133_assig1**.

Store all data using MongoDB atlas cloud

(Name mongodb Database as **studentId_comp3133_assig1** and think of your own collections name for saving listing, user info and booking info (use nodeJS mongoose module))

1. Create a new User Profile (**type** = admin OR **type** = customer) (**validate that All fields are mandatory**)

```
"username": "pritamworld",  
"firstname": "Pritesh",  
"lastname": "Patel",  
"password": "test123",  
"email": "p@p.com",  
"type": "admin"
```

- All fields are required
 - Username must be unique i.e., must not be same as existing user
 - Validate email format
 - Password must be min 6 characters length and can contain only upper/lower alphabets, 0-9, #, \$, &, _
2. Login API – Pass the username and password to validate the user to allow booking of any listing (both user and admin) (**Optional: implement JWT token**)
 3. Create a new listing (Admin) (**validate All fields are mandatory**)

```
"listing_id": "L001",  
"listing_title": "Sea face home for rent",  
"description": "max 1000-character description",  
"street": "171 Young Street",  
"city": "Toronto",
```

```
"postal_code": "M1X0Y5",  
"price": 150.00,  
"email": "contact@hilton.com",  
"username": "pritamworld"
```

- All fields are required
- Validate email format

4. View all listings created by Admin

5. Book listings as a User

```
"listing_id": "L001",  
"booking_id": "B001",  
"booking_date": "01-24-2022",  
"booking_start": "01-25-2022",  
"booking_end": "01-30-2022",  
"username": "pritamworld"
```

6. Search listing by

- Name
- City / Postal code

7. List all User bookings (**Only when logged in as User**)

8. View all listing added by Admin user (**Only when logged in as Admin**)

Evaluation

A) GraphQL end point/queries (9 points each)	Total: 72
B) Validate new User and new Listings (5 points each)	Total: 10
C) GitHub Repo	Total: 09
D) Submitting Postman project with all endpoints	Total: 09

Submission

- A)** Create the ZIP file having all your source code. Remove node_modules **folder before zip**
 - B)** Put the screenshots of all GraphQL queries and response along with mongodb screenshots
 - C)** Attach Postman project with GraphQL queries
 - D)** Upload the ZIP file having name **studentId_comp3133_assig1** on black board on or before deadline.
 - E)** Submit GitHub project link in comment
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Communication

Please contact on pritesh.patel2@georgebrown.ca or SLACK channel for any question or query.

References

- <https://graphql.org/code/#javascript>
- <https://www.howtographql.com/>
- <https://www.toptal.com/api-development/graphql-vs-rest-tutorial>
- <https://www.guru99.com/graphql-tutorial.html>