**Carpool API**

This document describes the details of the API you need to use for the hackathon. A list of queries along with sample return results of each is listed. Each query returns data in jSON format. All required functionalities mentioned in the problem statement can be completed using these queries. The implementation details are left open to the teams.

1. **Task**: Register User

**Query**: http://futureblue.torolab.ibm.com:9082/futureblue-1.0-SNAPSHOT/user/userdata/register/?**lastname**=Syeda&f**irstname**=Zaara&**email**=zaaras@ca.ibm.com&p**hone=**6471111111&**usertype**=owner&**teamid**=Webteam.

**Successful return value:** jSON object with response code and status

{"response\_code":0,"response\_status":"User Successfully Added"}

1. **Task**: Login with a registered user’s email

**Query**: http://futureblue.torolab.ibm.com:9082/futureblue-1.0-SNAPSHOT/user/validate/?**email**=zaaras@ca.ibm.com

**Successful return value:** jSON object containing user’s information

{"userid":8,"lastname":"Syeda",firstname":"Zaara","email":"zaaras@ca.ibm.com","phoneno":"6471111111","usertype":"owner","teamid":"Webteam"}

1. **Task**: Create a new carpool entry

**Query**:

http://futureblue.torolab.ibm.com:9082/futureblue-1.0-SNAPSHOT/carpool/carpooldata/register/?**ownerid**=8&**pointa**=14th%Ave&**pointb**=8200%Warden&**arrivetime**=9:00&**departtime**=5:00&**seats**=3&**pickuppoints**=loblaws&**description**=carpool%to%work&**location**=Markham&**teamid**=Webteam

**Successful return value**: jSON object with response code and status

{"response\_code":0,"response\_status":"Carpool Successfully Added"}

1. **Task**: Retrieve carpool information through user\_id

**Query**:

http://futureblue.torolab.ibm.com:9082/futureblue-1.0-SNAPSHOT/carpool/carpooldata/owner/?**userid**=1

**Successful return value**: jSON object containing carpool information, an array of rider’s information and their status, and information about the carpool owner in jSON object called user

{ carpoolid=45, ownerid=43, pointA="14th Ave",pointB=”8200 Warden”, arriveTime=”9:00”,departTime=”5:00”, availableseats=3,location=”Markham”,description=”carpool to work”, pickupPoints=”loblaws”, riders[{userid=46, lastname=”Lawal”, firstname=”Hafeez”, email=”hafeezl@ca.ibm.com”,phoneno=”123456”,ridestatus=”pending”,usertype=”rider”,teamid=”Webteam”}], user{"userid":8,"lastname":"Syeda","firstname":"Zaara","email":"[zaaras@ca.ibm.com](mailto:zaaras@ca.ibm.com)", "phoneno":"6471111111","usertype":"owner","teamid":"Webteam"}}

1. **Task**: Retrieve requests made to join a carpool through carpool\_id

**Query**: http://futureblue.torolab.ibm.com:9082/futureblue-1.0-SNAPSHOT/carpool/carpooldata/?**id**=1

**Successful return value:** Returns same results as query 4

1. **Task**: Accept/Reject carpool join requests

**Query**:

http://futureblue.torolab.ibm.com:9082/futureblue-1.0-SNAPSHOT/join/request/changestatus/? **carpoolid**=1&**userid**=2&**status**=accepted

Where userid is the id of the rider, and status can be either “accepted” or “rejected.” Default status after requesting to join a carpool is “pending”

**Successful return value:** jSON object with response code and status

{ response\_code=0, response\_status="Join Request Status Successfully Updated"}

1. **Task**: Retrieve carpool buddies

**Query**: Can use either query 4 or 5 and check for ridestatus = accepted

1. **Task**: Retrieve all available carpools

**Query**:

http://futureblue.torolab.ibm.com:9082/futureblue-1.0-SNAPSHOT/carpool/carpooldata/list/available/?**start**=0&**limit**=100

**Successful return value**: Returns jSON object array of all available carpools to join

1. **Task**: Request to join a carpool

**Query**:

http://futureblue.torolab.ibm.com:9082/futureblue-1.0-SNAPSHOT/join/request/register/?**status**=pending&**teamid**=team&**userid**=46&**carpoolid**=45

**Successful return value**: jSON object with response code and status

{"response\_code":0,"response\_status":"Join Request Successfully Added"}

1. **Task**: Retrieve status of join requests made for different carpools

**Query**:

http://futureblue.torolab.ibm.com:9082/futureblue-1.0-SNAPSHOT/join/request/?**userid**=2

Where userid is the id of a rider

**Successful return value**: Array of jSON objects containing carpoolid, userid and status

[{ carpoolid=45, userid=45, status="accepted"}, { carpoolid=42, userid=45, status="pending"},

{ carpoolid=12, userid=45, status="rejected"}]

1. **Task**: Allow carpool owner to remove an already accepted carpool buddy

Allow a rider to leave a carpool which he has already been accepted into

**Query**:

http://futureblue.torolab.ibm.com:9082/futureblue-1.0-SNAPSHOT/join/request/remove/?**carpoolid**=8&**userid**=2&**changeseatcount**=true

**Successful return value**: jSON object with response code and status

{"response\_code":0,"response\_status":"Join Request Successfully Removed"}