**COMP 3133 – Full Stack Development II**

**Lab 04 – Mongoose Validation**

**Create NodeJS + Express + MongoDB + mongoose application to perform following operations**

**Note**:

* Create **GitHub** repository and commit all your code to GitHub
* Use **Postman** to insert test the records
* Download and use given [**UserData.json**](UsersData.json) to insert data and to define schema

**NodeJS Project**

1. Create NodeJS project having name **lab4\_users\_database**
2. Install required modules to work with **express** and **mongoose**
3. Create **Users** Schema in your project to declare validation
   1. **All** fields are mandatory
   2. **Username** field must have length >=4
   3. Allow only valid **email** address
   4. Allow only alphabets and space while entering **city** name
   5. Allow only valid **web** URL address (**http** or **https** is valid)
   6. **Zip** code format must be like 12345-1234 (DDDDD-DDDD, **D = digit**)
   7. Validate **phone** format like 1-123-123-1234 (D-DDD-DDD-DDD, **D = digit**)
4. Create **POST** REST API to insert document to MongoDB database and perform validation

[**http://localhost:8081/users**](http://localhost:8081/users)

**MongoDB Atlas**

[**https://account.mongodb.com/account/login**](https://account.mongodb.com/account/login)

Use MongoDB Atlas for creating collections named **users**

**Reference**

* Lab work done during class
* <https://mongoosejs.com/docs/guide.html>
* <https://mongoosejs.com/docs/validation.html>
* <https://techeplanet.com/express-send-json-response/>

**Submission**

* + **Screenshot(s)** (Postman) with appropriate title showing your REST API each validation error output. You may add all the screenshots in word document and upload it**. *[Do not put screenshots in project/zip file]****.*
  + **Delete the node\_modules** folder as it has many files which are big in size and is not required for the submission.Create **a zip file** of your entire project folder and submit.
  + Your **GitHub** project link.