	Ankith Jain (A20354438)
ITMD 565 Project2	
Ankith Jain Full NodeJS Express CRUD Applica	ition with JSON API
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Project Description

This application is based on Express.js which is a Node.js web application server framework. I have created two data models which are **Products** and **Customers** having the data persistence stored in JSON files present in filesystem. They also have respective RESTful url paths. CRUD operations is successfully implemented on both the data models with proper data validations for user input.

Project Features and Functions

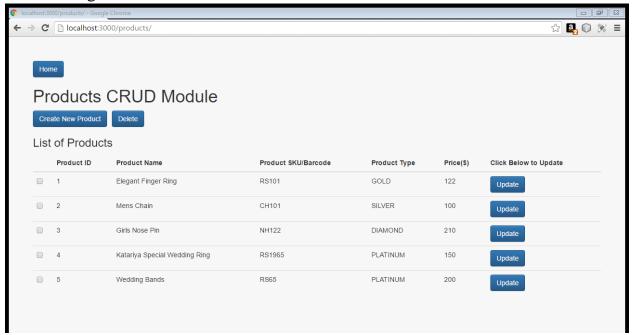
- 1. Highlights about Data Models
 - Products Each Product has a property or fields of Product Id, Product Name, Product SKU, Product Price, and Product Color.
 - Customers Each Customer has a property or fields of Customer Id,
 Customer First Name, Customer Last Name, Email and Phone.

2. Welcome Page

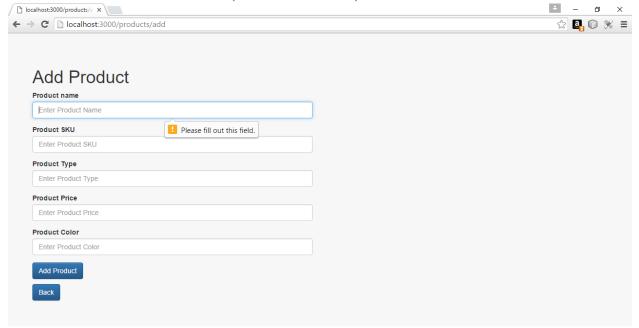
- On visiting http://localhost:3000/ on a browser an index page is displayed where an user can see and navigate to options mentioned below
 - a. PRODUCTS CRUD MODULE
 - b. CUSTOMERS CRUD MODULE
 - c. PRODUCTS API DATA
 - d. CUSTOMERS API DATA
- 3 Screen Shots from Working of Application
 - WELCOME PAGE



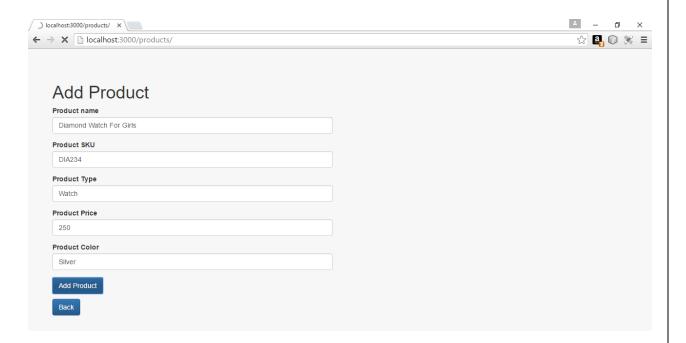
• On Clicking PRODUCTS MODULE CRUD Screen



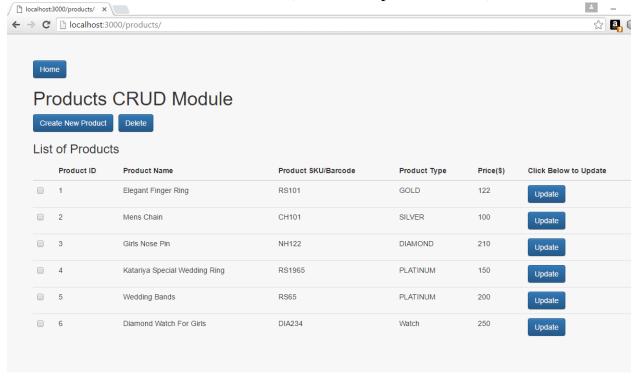
• **CREATE** NEW PRODUCT (with validations)



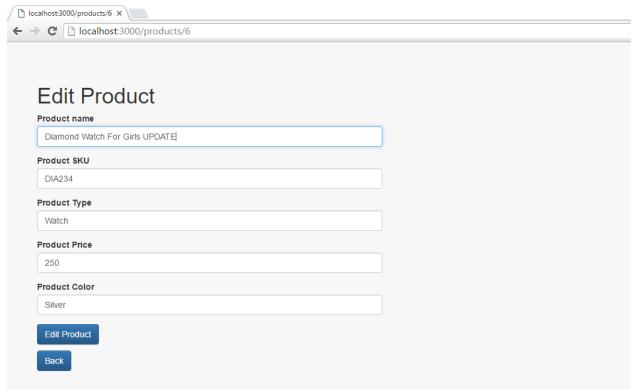
Ankith Jain (A20354438)



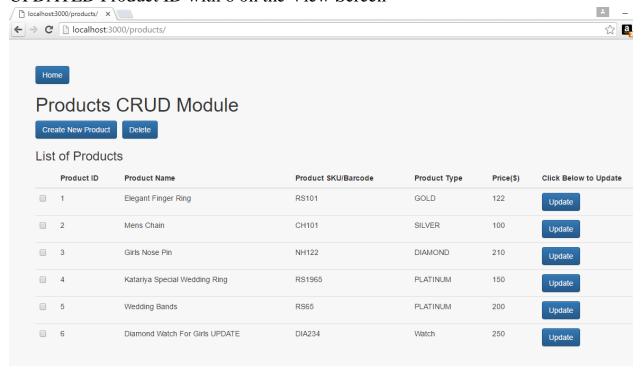
• **READ / VIEW PRODUCTS Screen (with a new product added)**



• **UPDATE** A PRODUCT

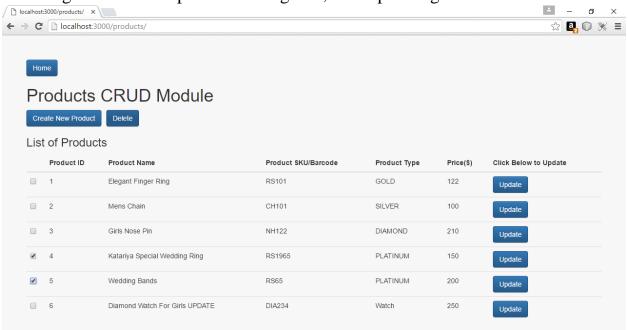


• UPDATED Product ID with 6 on the View Screen

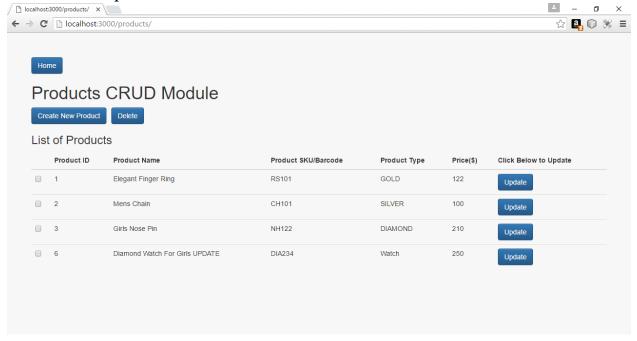


• **DELETE** ONE OR MULTIPLE PRODUCTS

Selecting check box of product having id 4, 5 and pressing delete button



Deleted and Updated the View Screen



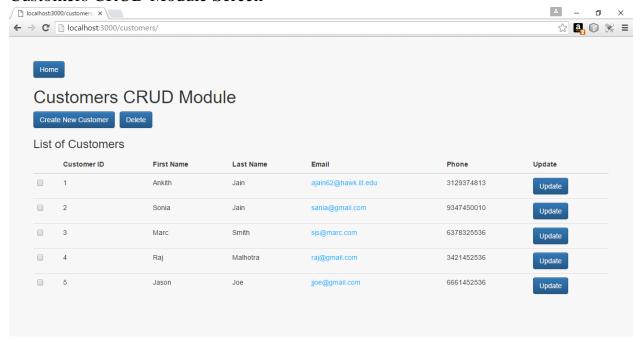
PRODUCTS API DATA stored in JSON file with RESTful

URL http://localhost:3000/api/products/



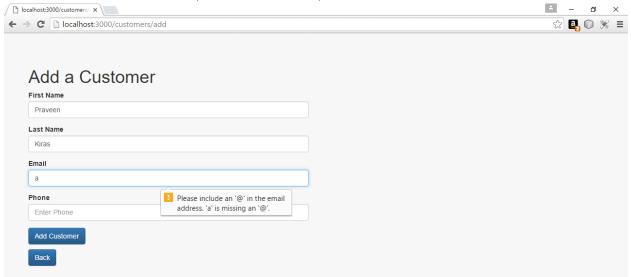
CUSTOMERS MODULE CRUD Working

Customers CRUD Module Screen

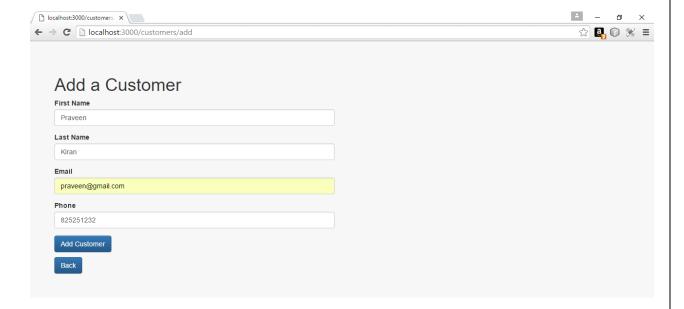


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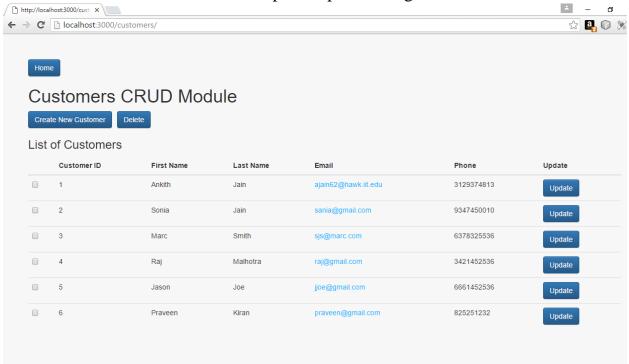
• **CREATE** CUSTOMER (with validations)



Adding Customer with proper data

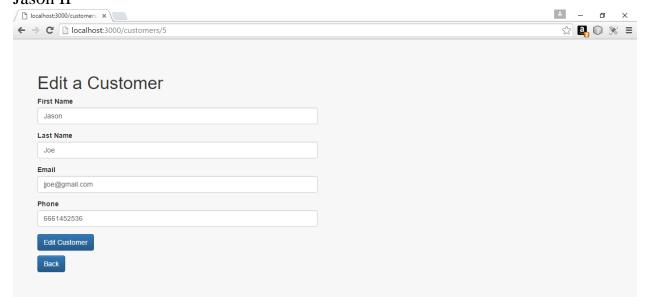


• VIEW / READ Customers screen updated post adding new customer

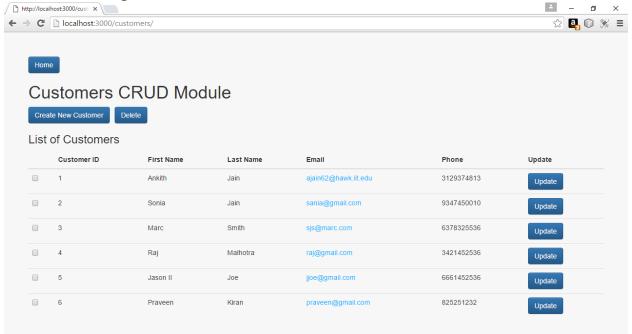


• **UPDATE / EDIT** a Customer

On clicking Jason contact number 5 update button and changing name to Jason II

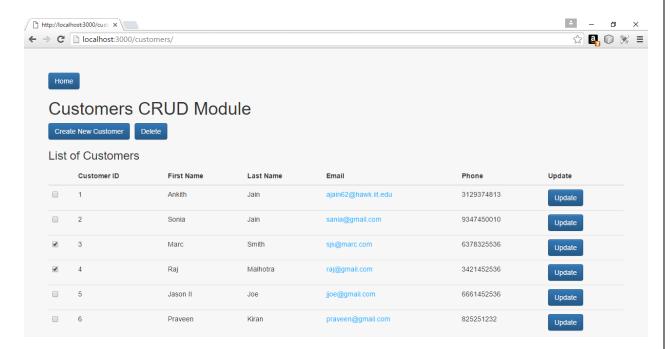


• Contact Jason updated as Jason II in the view screen

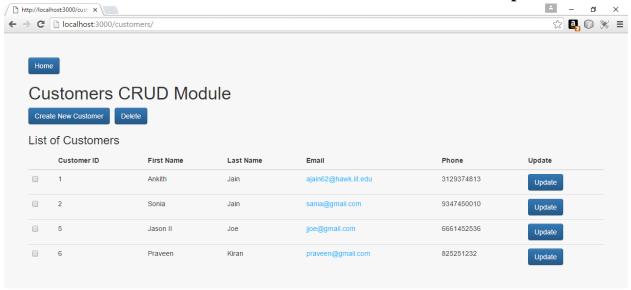


• **DELETE** ONE OR MULTIPLE CUSTOMERS

Selecting check box of customer having id 3, 4 and pressing delete button



DELETED CUSTOMERS with ID 3 and 4 and View screen is updated



• API DATA OF CUSTOMERS MODULE in JSON file with RESTful

URL - http://localhost:3000/api2/customers/



• Tools and Technologies Used

- 1. WebStorm IDE 2016 1.1
- 2. nodeJS, JavaScript, JSON API, jquery-v1.12.2, Jade, Bootstrap V3.3.6, HTML5, CSS3
- 3. Node JS web framework express
- 4. Computer Environment & OS Microsoft Windows 10

• Steps to run the project

- 1. Pre-requisite: System should have latest NodeJS and NPM installed it
- 2. Switch command prompt terminal change your current directory to the folder having the project ajain62_A20354438_Project2 folder
- 3. Type npm start and hit enter
- 4. Once the server starts login to browser and paste the below URL and hit enter to see the application home page http://localhost:3000/

• Project Insights and Learning

- 1. Tried the Node JS web application framework Express for first time and was pretty much excited about the ease in developing a CRUD based web application in a smarter way
- 2. Learnt handling of GET, POST, PUT and DELETE request from user which is well handled in this framework
- 3. Jade was something similar to HTML5 but was fun to learn

Issues faced

Sometimes the application navigation is slow from one screen to other and shows err timed out page, waiting for a second is the key and the application is back to normal