Day	Session	Trainer Pool	Status	Time (Hours)	Start Date	ETA	Related Links
	Email	NA					
	Celigo Email	NA					
	IO Account	Create your own account on integrator.io via the college email					
Training Focus						
Reference	GitHub	Assignments below					
	Object Oriented JavaScript (server side)	Assignments below					
	NodeJS	Assignments below					
	Design pattern of integrating between systems	Learn from Google					
	Integrator.io	Assignments below					
	Unit Testing (In both JS and NodeJS)	Learn from Google					
General Sessions						
	Introduction to source control and Github::						
	Topics::						
	Introduction to Git			2hours			
	What we learn::						
	Introduction to source control and why we use it.						
	Assignments::						
	Create a personal GitHub account						
	Create a repo for assignment						
	Go through all the below commands and its usage. git init git status git add git commit git push git remote -v git add upstream git branch git checkout git pull git log						
	Create a branch locally, checkout, make some changes and merge it to master						
	Fork repo (https://github.com/dikshaKhatri/begin)						
	Add some src files in the local repo. Push the code from local repo to remote forked master repo and create a pull request.						
JavaScript Sessions						
	Javascript basics and advanced topics ::	After the session should be proficient in Object Oriented Javascript					
	JavaScript Getting Started			3hours			
	JavaScript Objects & prototypes			1hour			
	Assignments::						
	Go through underscore.js						

Day	Session	Trainer Pool	Status	Time (Hours)	Start Date	ETA	Related Links

		JavaScript Basics
		
		Create an Object Person with Object literals
		The Object should have firstName, lastName and age properties
		Create an Object MetadataParser using constructor functions
		The Object should have private properties _version, _channel, _keyField
		Object should have get and set function for each properties
		Add a method in the class getKeyFields, which takes an array of JSON objects (eg [{channel: 'A'}, {channel: 'B'}, {channel 'C'}])as input and returns an array of values of _keyField, input array.
		Write a function groupObjectsBy which takes as an input an array of JSON objects and returns a grouped object by a key. Eg
		groupObjectsBy([
		  {
		    "channel": "A",
		    "name": "shoe"
		  },
		  {
		    "channel": "A",
		    "name": "electronics"
		  },
		  {
		    "channel": "B",
		    "name": "apparel"
		  },
		  {
		    "channel": "C",
		    "name": "electronics"
		  }
		], 'channel')
		Will return
		{
		 "A": [
		  {
		    "channel": "A",
		    "name": "shoe"
		  },
		  {
		    "channel": "A",
		    "name": "electronics"
		  }
		],
		 "B": [
		  {
		    "channel": "B",
		    "name": "apparel"
		  }
		],
		 "C": [
		  {
		    "channel": "C",
		    "name": "electronics"
		  }
		]
		}
		
		Implement inheritance. Define a constructor function SortArray which
		Has a property originalArray
		Has get function to getSortedArray
		Has a private function to sort the array.
		Takes as an input to construct an array of numbers
		Define another constructor function (SortObjectArray) which extends SortArray, and is used to sort array of JSON					

Day	Session	Trainer Pool	Status	Time (Hours)	Start Date	ETA	Related Links
	Node.js Basic Sessions						
Session#3	**Nodejs basics ::**	Should have execellent knowldege in Node. Level Advance					
	Nodejs Intro			3hours			
	NPM Basics 01 - What is npm? 02 - How to find & select packages 03 - How to set up a new npm account & install npm 04 - How to install local packages 05 - Working with package.json	https://docs.npmjs.com/getting-started/what-is-npm		1hour			
	Assignments::			4hours			
	Explore : request async handlebars lodash	https://www.npmjs.com					

Day	Session	Trainer Pool	Status	Time (Hours)	Start Date	ETA	Related Links
		NodeJS Find a package to convert and XML to JSON. (see https://www.npmjs.com/package/xml-parser for example) Write a wrapper over the package. Implement an XmlParser helper Object/function which exposes a methods to parse an XML and takes as an input options Implement a method which takes in options file path and reads an XML file from filesystem and returns it's JSON. The method should have error handling for non-existent file paths. Use handlebars package Explore handlebars as provided in the documentation Create handlebar template to generate a template as given under Handlebar feeder Data : data fed to compile Expected XML Template : output request package (pre-requisite basic overview on request module and eventEmitter) Use request package to download google.com homepage and save it into a file using fs package. Use request package and event it emits to stream a file from web as an file in filesystem. Async For following list of images, download the images parallel and create compressed file and save in a folder file system. Before writing image in the FS print the index of the image in console http://sousmonarbre.com/qphj/bd963843d2239ed78aa6f7b0a36b537d/qdp/shapely-table-mat-design-office-bay-decoration-mes-at-work-decorating-ideas-office-decoration-mes-design-ideas-cream-wall-paint-decoration-messroom-wooden-laminate-ing-tosca-color__office-decorating-ideas.jpg https://doodleart.redbull.com/assets/managed/entries/processed/sm/367010617181759_36211000.jpg https://www.justcolor.net/wp-content/uploads/sites/1/nggallery/doodle-art-doodling/coloring-page-adults-doodle-art-rachel.jpg https://i.pinimg.com/originals/e5/55/a3/e555a39ca5457a079a9bcce59f61f8d5.jpg http://canhotopazelite.info/wp-content/uploads/2018/08/office-bay-decoration-themes-with-office-bay-decoration-themes-elegant-yet-fun-office-bay-decoration-14.jpg https://i.pinimg.com/originals/ef/4c/91/ef4c91fb73e61e19211a0589187ccaa6.jpg https://static.vecteezy.com/system/resources/previews/000/107/464/non_2x/huge-doodle-vector-pack.jpg https://i.ytimg.com/vi/O5u1apUkYV0/maxresdefault.jpg https://media.glassdoor.com/l/e9/c1/7a/84/independence-day-celebration.jpg For the list of images above, make sure to not save more than 5 image in a folder, if there are more that 5 images create a new folder and saved images Miscellaneous - check packages which shorten a url. (eg. bitly, rebrandly). Write a UrlShortner, which takes as input an array/file of URLs and saves a CSV of original and new shortened url. All the above links can be used, for the exercise. 					
	NodeJs basic assignment	Handlebars Input and Output data Handlebar feeder Data [{					

Day	Session	Trainer Pool	Status	Time (Hours)	Start Date	ETA	Related Links
	IO Architecture						
Session#6	**Introduction to Integrator.io and various functionalities in it::**						
	Topics::						
	Integrator.io Basics	https://celigosuccess.zendesk.com/hc/en-us/sections/205920388-Get-Started-with-integrator-io					
	Different aspects (flows/exports/imports/connections/mapping/connectors) of Integration.	Introduction to integrator.io					
		Home page, Integration Dashboard, Error Handling					
		integrator.io Record Types					
		Email Notifications on Flows and Connections					
		Scheduling, Schedule or Run Data Flows					
		SmartConnector vs Template in Integrator.io, The integrator.io Marketplace					
	Integrator.io as an api first platform.	https://github.com/celigo/integrator-api-docs/					
	Navigate through UI, show different pages and functionalities and adaptors.						
	Show creating a flow with best possible complexity.						
	Assignments::						
	Create different connections for REST to REST. Use Mockable.io to generate two dummy apps						
	Create flows for below configurations and test flows						
	NS real time to REST.						
	NS batch to REST with Create and Update existing records configuration.						
	REST to NS with Add/Update configuration mode.						
	Basics of Orchestartion -> Create few dummy APIs, and use that to create a customer, a Salesorder and then fulfil the order in NS						
	Node						
	Asynchronous programming and callbacks::						
	Topics::						
	Context on synchronous and asynchronous programming.						
	Synchronous callbacks(array.forEach) and asynchronous callbacks(node js callbacks)						
	Nested callbacks and better way of nested callbacks with functions.						
	Assignments::						
	Using Integrator.io api and request module, get db docs and log them.						
	Write nested callbacks to create our flow/import/export/connection documents in the required hierarchy and generate a legitimate flow.						
	Convert above nested callbacks to promises						
	Do research on pros/cons of using nested callbacks/promises/ES6 generators.						
	IO Architecture						

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	Integrator Extension						
	Introduction	https://github.com/celigo/integrator-extension					
	Hooks in IO	https://github.com/celigo/integrator-extension#hooks					
	Assignments::						
	Create a stack locally Explore all the possible hooks and Wrappers and implement them to manipuldate the raw data						
	Unit Tests						
	Node JS Unit Tests						
	Overview on Mocha, nock node modules						
	Unit Tests in IO						
	NetSuite Unit Tests Overview						