Internship Do It Yourself - 2022

The purpose of this document is to specify the DIY program for Internship program 2022. This will outline topics, timeline, suggested tutorials and outcome.

Expectations

The students are expected to complete the assessments/assignments allocated to them and shall be evaluated on the basis of these assignments for the Pre placement offer.

Prerequisite

- Students passing the selection criteria by 3pillar
- Complete Knowledge of DIY skill sets proposed by 3pillar

Process

Assuming candidate needs to follow below steps

- 1. **Self learning** Books, video, online blogs and tutorials
- 2. Assignment Work on assignments

Timeline & Topic

Entire program is for almost 18 weeks.

Following topics are going to be part of the program

- 1. Git 3 weeks
- 2. JavaScript 12 weeks
- 3. RDBMS & SQL 3 weeks

4-5 hours per week commitment should be good enough to finish the topics

Content

# Week	Topics & Resources	Exercise
01 - Git - Intro	 Version Control https://www.atlassian.com/git/tutorials/what-is-version-control Source Code Management https://www.atlassian.com/git/tutorials/source-code-management 	

	 What is Git https://www.atlassian.com/git/tuto rials/what-is-git Install Git https://www.atlassian.com/git/tuto rials/install-git Git SSH 	
	 https://www.atlassian.com/git/tuto rials/git-ssh 	
02 - Git - Getting Started	 Setting up repository https://www.atlassian.com/git/tuto rials/setting-up-a-repository Saving Changes https://www.atlassian.com/git/tuto rials/saving-changes Inspecting a repository https://www.atlassian.com/git/tuto rials/inspecting-a-repository Undoing Commits & Changes https://www.atlassian.com/git/tuto rials/undoing-changes 	
03 - Git - Collaborating	 Syncing https://www.atlassian.com/git/tuto rials/syncing Making a pull request https://www.atlassian.com/git/tuto rials/making-a-pull-request Git Branch https://www.atlassian.com/git/tuto rials/using-branches 	
04 - JavaScript	 What is Javascript? https://developer.mozilla.org/en-US/docs/Learn/JavaScript/First_steps/What is JavaScript Use JavaScript within a webpage https://developer.mozilla.org/en-US/docs/Learn/HTML/Howto/Use JavaScript within_a_webpage JavaScript DataTypes/Variableshttps://www.tutorialspoint.com/javascript/javascript_variables.htm 	https://github.com/ Asabeneh/30-Day s-Of-JavaScript/bl ob/master/02_Day Data types/02 d ay_data_types.md #-day-2-exercises

05 - JavaScript	 JavaScript Operators Arithmetic Operators Comparison Operators Logical Operators Assignment Operators Conditional Operators Ternary Operator	https://github.com/ Asabeneh/30-Day s-Of-JavaScript/bl ob/master/03 Day Booleans operat ors date/03 boole ans operators dat e.md#-day-3-exerc ises
06 - JavaScript	 JavaScript Objects https://www.javascripttutorial.net/javascript-objects/ JavaScript Arrays and Array Methods https://www.freecodecamp.org/news/the-javascript-array-handbook/ 	https://github.com/ Asabeneh/30-Day s-Of-JavaScript/bl ob/master/05_Day Arrays/05 day ar rays.md#-exercise https://github.com/ Asabeneh/30-Day s-Of-JavaScript/bl ob/master/08_Day Objects/08_day objects.md#-exerci ses
07 - JavaScript	 JavaScript Conditional Statements https://www.guru99.com/how-to-use-conditional-statements-in-javascript.html JavaScript Switch Statement https://www.javascripttutorial.net/javascript-switch-case/ Javascript Loops/Iteration for statement dowhile statement while statement labeled statement break statement continue statement forin statement forof statement https://developer.mozilla.org/en- 	https://github.com/ Asabeneh/30-Day s-Of-JavaScript/bl ob/master/04_Day Conditionals/04 day_conditionals. md#-exercises https://github.com/ Asabeneh/30-Day s-Of-JavaScript/bl ob/master/06_Day Loops/06_day_lo ops.md#-exercises day-6

	US/docs/Web/JavaScript/Guide/ Loops and iteration	
08 - JavaScript	 JavaScript Functions https://developer.mozilla.org/en-US/docs	https://github.com/ Asabeneh/30-Day s-Of-JavaScript/bl ob/master/07 Day Functions/07 day functions.md#-ex ercises
09 - JavaScript	Javascript ES6 (New Features) https://www.w3schools.com/js/js_es6.as	
10 - JavaScript	Error Handling https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide/Control flow and-error_handling d_error_handling	
11 - JavaScript	Promises https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise Cts/Promise	https://github.com/ Asabeneh/30-Day s-Of-JavaScript/bl ob/master/18 Day _Promises/18_day _promises.md#exe rcises
12 - JavaScript	Writing Clean Code https://github.com/Asabeneh/30-Days-Of-JavaScript/blob/master/20_Day_Writing_clean_codes.day_writing_clean_codes.md des.md	
13 - JavaScript	Manipulating DOM Object https://github.com/Asabeneh/30-Days-Of-JavaScript/blob/master/22 Day Manipulating DOM object/22 day manipulating DOM object.md DOM object.md	https://github.com/ Asabeneh/30-Day s-Of-JavaScript/bl ob/master/22_Day Manipulating_DO M_object/22_day manipulating_DO M_object.md#exer cises

14 - JavaScript	Mini Project: Create a Portfolio https://github.com/Asabeneh/30-Days-Of-JavaScript/blob/master/27_Day_Mini_project_portfolio/27_day_mini_project_portfolio.md	
15 - JavaScript	Mini Project: Leaderboard https://github.com/Asabeneh/30-Days-Of-JavaScript/blob/master/28_Day_Mini_project_leaderboard/28_day_mini_project_leaderboard.md	
16 - SQL - Intro	 Introduction What is a Database? Tables & Keys SQL Basics MySQL Windows Installation Creating Tables Inserting Data Constraints https://www.youtube.com/watch?v=HXV 3zeQKqGY&t=2s 	
17 - SQL - More	 Update & Delete Basic Queries Company Database Intro Creating Company Database More Basic Queries Wildcards (Union Joins Nested Queries https://www.youtube.com/watch?v=HXV 3zeQKqGY&t=6491s 	
18 - SQL - Practice	SELECT queries 101 https://sqlbolt.com/lesson/select_queries_introduction Queries with constraints https://sqlbolt.com/lesson/select_queries_with_constraints_pt_2 Filtering and sorting Query results https://sqlbolt.com/lesson/filtering_sorting_query_results	

•	Multi-table queries with JOINs	
	https://sqlbolt.com/lesson/select	<u>queries</u>
	with joins	
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OUTER JOINs
 https://sqlbolt.com/lesson/select_queries
 with outer joins