

Java with Automation v3.

	MON	TUE	WED	THU	FRI	ENVIRONMENT
	Written evaluations Individual interviews	REST naming conventions	 Introduction to DBMS 	Referential Integrity	• Introduction to JDBC	• AWS - RDS
• We	Quality Control Audit Introduction to Webservice Introduction to HTTP	 Introduction to Javalin HTTP Handlers JSON Overview Exception/Error 	 AWS RDS AWS - MariaDB (Oracle Syntax) DDL - Data Definition Language 	Table relationships / multiplicityNormalizationAtomicityConsistency	Introduction to Integration testing Mocking DAO layer with Mockito Design Pattern:	
Week 2	Week 2 Day 1 Hackerrank Activity	Mapping Postman Newman	DML - Data Manipulation Language DQL - Data	IsolationDurabilityRead phenomena	Data Access Object (DAO) Interfaces of JDBC Setting up the	
Javalin/SQL		(Optional)	Query Language DCL - Data Control Language TCL - Transaction Control Language	Inner / Outer JoinsLeft / right JoinsSet Operations	Database DriverConnectionInterfaceSimple &Prepared Statements	
			 Defining Schema Constraints Scalar functions Aggregate functions 	Data types	Properties fileAccessing StoredProcedures	

	MON	TUE	WED	THU	FRI	ENVIRONMENT
Week 3 Client side technologies	Written Evaluation Interview - group / solo based on performance Quality Control Audit PL/SQL Stored Procedures vs functions Callable Statement Week 3 Day 1 Hackerrank Activity	Responsive web design Bootstrap HTML Tags HTML Document Structure & DOM Elements and Attributes Inline and Block Elements Overview of CSS CSS Box Model Inline, Internal, and External Stylesheets CSS Properties Element Selectors Class and Id Selectors Cascading Nature of CSS Specificity and Resolving Styling Conflicts Overview of HTML Input Elements and Input Types Select and Multiselect Submitting Forms Form Elements and Its Attributes Responsive Web Design Overview	Project 1 JavaScript Introduction Async/await Data types Variable Scopes Type Coercion "strict" mode "this" keyword OOP in JS Selecting elements from the DOM Manipulation Traversing the DOM AJAX Workflow with XmlHttpRequest Object Working with JSON in AJAX Fetch API let and const keywords Arrow functions Promises	Project 1 Callback Functions Bubbling, capturing Event Object Events & Listeners Template literals & arrow notation	Project 1 Intro to Automation Testing Introduction to Jasmine Introduction to Protractor Introduction to Page Object Model(POM) Writing Automation Tests Selenium/WebDriver E2E Testing Week 2 Day 5 Hackerrank Activity	

	MON	TUE	WED	THU	FRI	ENVIRONMENT
Week 4 Hibernate / Agile / Selenium	Project 1 Written evaluation Group interviews Quality Control Audit Hibernate and JPA Interfaces of hibernate hibernate.cfg.xml file Annotations for model classes Week 4 Day 1 Hackerrank Activity	Project 1 Criteria API Native SQL Named queries Caching Object states HQL ACID Properties Object-relational mapping	Project 1 Agile Scrum topics Agile Scrum artifacts and ceremonies Continuous Integration (CI) In-depth with Git (branching structure, merging, merge conflicts, advanced commands, code reviews with pull requests)	Project 1 Feature file Automation with Cucumber and Selenium Gherkin Step implementations Introduction to BDD	Project 1 Advanced Selenium Concepts WebDriver Setup XPath/CSS Selectors Automate Existing Application PageFactory	
Week 5 Angular	Project 1 Written Evaluation Interviews Quality Control Audit Node as a JS runtime; npm as a package manager Angular CLI Webpack Single Page Application (SPA) History of Angular Package.json file Week 5 Day 1 Hackerrank Activity	Project 1 Introduction to TypeScript Access modifiers/variable types Classes & Decorators @Component decorator Component lifecycle methods	Project 2 • @NgModule decorator • 1-way data binding • Structural directives • Attribute directives	Project 2 • 2-way data binding • Pipes • Custom Pipes	Project 2 Services and Dependency Injection HttpClient RxJS - Observables RxJS - Subjects Pub/Sub design pattern Setting up routing Week 5 Day 5 Hackerrank Activity	• Angular 8

	MON	TUE	WED	THU	FRI	ENVIRONMENT
Week 7 Automation Testing/AWS	Project 2 Written evaluation Interviews Quality Control Audit Intro to Pyramid Testing Testing Mindset Features vs Defects Test Lifecycle Types of Testing Defect Lifecycle Assign Group Hackerrank Research Assignment	Project 2 Testing Documents Test Plan, Test Strategy, Test Cases, Test Results Test Lab - preparing the documents	Project 2 Executing a sample Maven build Maven Lifecycle Continuous integration Continuous deployment Continuous delivery DevOps and Agile SonarCloud & SonarLint Jenkins DevOps Overview	Project 3 AWS Introduction AWS Regions and Availability Zones AWS EC2 SSH Into EC2 Instance AMI EC2 Autoscaling EBS Intro to AWS S3 AWS S3 Bucket Configuration Hosting Static Sites on S3 Group discussion for Hackerrank Research Assignment	Project 3 Security Groups Commands: grep (lite), man, yum Unix basics (basic shell scripting) Presentation of Hackerrank Research Assignment	
Week 8 Project 3 work	Project 3 Individual Hackerrank Assessment	Project 3	Project 3	Project 3	Project 3 Portfolios due to QC	
Week 9 Project 3 / Panel Interviews	Project 3 Panel Interviews	Project 3 Panel Interviews	Project 3 Portfolios all approved Panel Interviews	Project 3 Panel Interviews	Project 3 Panel Interviews	
Week 10 Project showcase / OCA Prep	Project 3	Project 3	Project 3	Project 3		

PROJECT	TECHNOLOGIES
Project 1	Java, Javalin, HTTP, SQL, JDBC, HTML, CSS, JavaScript, Unit Testing
Project 2	DevOps, Spring, Automation Testing, Angular, Java, REST, HTTP
Project 3	Java, Spring, Protractor, Jasmine, Selenium, Angular



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