**CHAPTER -1 RESTASSURED INTRODUCTION**

-Introduction of RestAssured

-RestAssured integration with maven project and sample code

**CHAPTER -2 RESTASSURED ARCHITECTURE**

- static import

- method chaining

- RestAssured Class Diagram

**CHAPTER -3 RESTASSURED -CRUD OPERATIONS**

-HTTP methods

-CRUD operation

**CHAPTER -4 SERILIZATION AND DESERILIZATION**

-POJO classes

-Jackson and Jackson annotations

**CHAPTER -5 RESPONSE VALIDATION AND RESTASSURED ASSERTIONS**

- Assertions on response

- Complex json xPath for dynamic reponse Payload

**CHAPTER -6 REQUEST CHAINING**

- api chaining

- micro web service api testing via chaining

**CHAPTER -7 TYPES OF PARAMETERS**

**CHAPTER -8 AUTHENTICATION**

-Authentication & Authorization

-Types of Auths

**CHAPTER -9 ENCRYPTION AND DECRYPTION**

- Base64 Encoding

- encryption and decryption algorithm and usage in API

**CHAPTER -10 DATA DRIVEN TESTING**

-data providers

**CHAPTER -11 DATA SIMULATION**

- development of java data simulation tool

**CHAPTER -12 MOCKING SOLUTION**

- introduction of mocking

- mocking by Mockito

- mocking by Spark

**CHAPTER -13 BACKEND API TEST CASE AUTOMATION**

-API testcase

-API testcase automation

**CHAPTER -14 UTILITY**

-generic and business Utilities

**CHAPTER -15 ENDPOINTS**

**CHAPTER -16 UNIT TESTING TOOL**

- TestNG

-Config annotations

-BaseApiClass

-Request and Response Spec Bulider

-Batch Execution

**CHAPTER -17 API FRAMEWORK**