



2nd Floor, Sri Sai Arcade, Beside Aditya Trade Centre, Ameerpet, Hyderabad, Telangana 500038
ph: 040-65538958, 65538968, 65538978. www.sathyatech.com

Java Real Time Project

1. Introduction to Project
 - ❖ Relations between classes
 - ❖ Layer Designs to Modules
2. Debugging Application
 - ❖ Flow Diagrams
 - ❖ DB Tables and sequence Designs
3. AGILE Development Life Cycle
 - ❖ Epic Preparation
 - ❖ Spring Planning & Evaluation
 - ❖ Scrum Process
 - ❖ Story Preparation and Process
 - ❖ Development Life cycle
 - ❖ Bug life cycle
 - ❖ Productions and UAT Process
4. Domains and Designs
 - ❖ Domain Introduction
 - ❖ Understanding Process
 - ❖ Dividing Modules
 - ❖ Design using Relations
5. UML DFD and ER Diagrams
 - ❖ Class Diagrams
 - ❖ Specifiers Representation
6. 3-Tier and N-Tier Architecture
 - ❖ Design Introductions
 - ❖ Generic and Specific Designs
 - ❖ End-to-End Module implementation
7. Project Modules Implementation
 - ❖ Modules Introduction
 - ❖ CURD Operation
 - ❖ File Uploads and Downloads
 - ❖ Data Export using Excel and PDF
 - ❖ Pie and Bar Charts using DB Data
 - ❖ Sending Email alerts
 - ❖ Scheduling Operations

8. Case studies

- ❖ Basic Documentation Preparation
- ❖ Individual case studies for Stories
- ❖ Test cases preparation for UnitTesting

9. Technologies and Concepts Covered

- ❖ Spring Core, MVC ORM and AOP
- ❖ Hibernate Mappings, HQL, Generators
- ❖ Java Collections with Sorting
- ❖ UI Design using HTML CSS and JS
- ❖ Java Script Validations
- ❖ JSP and JSTL with EL
- ❖ JFreeCharts (Pie and Bar charts)
- ❖ Apache FileUpload and Download
- ❖ Apache DBCP
- ❖ Apache POI - Excel File Export
- ❖ Apache CODEC (Encoding and Decoding)
- ❖ lowagie iText PDF
- ❖ Java Mail for Email
- ❖ Design Patterns
- ❖ ReST web services
- ❖ JSON and JSCKSON
- ❖ EDI (Electronic Data Interchange)
- ❖ Schedulers and Cron Expressions

10. Tools:

- ❖ Eclipse
- ❖ Log4j
- ❖ Maven
- ❖ JUnit
- ❖ Git

11. Resume Preparation and Evaluation

- ❖ Fresher Resume Preparation
- ❖ Experience Resume Preparation
- ❖ Mock interview (one-to-one and group)

12. Interview Questions

13. Reference Documents

- ❖ Spring Reference Document
- ❖ Hibernate Reference Document
- ❖ Web Service (ReST) Reference Document
- ❖ Eclipse Shortcuts Notes
- ❖ Tools Reference Document
- ❖ AGILE Process Document
- ❖ Project Document