**JAVA TRAINING MODULE-1**

**Day 1:**

* Install necessary tools,
* java, MySQL, VsCode, IntelliJ, Postgres, MongoDB, Postman, STS, GIT.
* Setup all the company necessary accounts (greytHR, Slack, Email)

**Day 2:**

* Java Basics
* OOPs
* Exception Handling

**Day 3:**

* Multi-Threading
* Object class

**Day 4:**

* Collections
* Java-8 features

**Task For Module-1**

**Time limit: 3 days**

Task: Need to create Console base app.

* Where admin can perform crud operation (For example admin can create user, delete user, Fetch single user, fetch all user, Update user)
* **User fields:** name, email, mobile number
* When creating user, please be careful if one user is already existing with same email then return message user already exist.
* User can have multiple numbers.
* When performing search operation for any user return user if present and if not present then throw UserNotFoundException
* check for email and number validation

**JAVA TRAINING MODULE-2**

**Day 1:**

* HTML
* CSS
* Bootstrap

Day 2 And Day 3:

* JavaScript
* jQuery
* Ajax

**Day 4:**

* **GIT And JIRA**
* **Maven/Gradels**

**Day 5 And 7:**

* **Servlet**
* **JSP**
* **JSTL**

**Day 8:**

* DATABSE (MySQL)

**TASK FOR MODULE-2**

This project is aimed at developing a Library Management. The system is an online application that can be accessed throughout the organization and outside as well with proper login provided.

* **Having Two Modules:**
* **Head**
* **Student**
* **Admin Role:**
* Firstly, Admin done Registration
* Name
* Name of library
* Address
* Email (valid email)
* Role
* Password (at least 8 characters with special symbol)
* Confirmation of registration status and a membership number and password will be generated and mailed to the user.
* All details will be checked and if any error is found then an error message is displayed else a membership number and password will be generated.
* Go For Login using member ship number and password.
* After successful login it go to admin profile. Where admin Add books, View books (all books) or issue books (it shows the issue book when click on any particular book its show the student’s name to whom books was issued). Delete books or edit books descriptions.
* Add parking Slot Field
* Name of book
* Author of book
* Edition
* Quantity
* Student Role:
* Firstly, Student/User done Registration
* Name
* Email (valid email)
* Role
* Password (at least 8 characters with special symbol)
* Confirmation of registration status and a membership number and password will be generated and mailed to the user.
* All details will be checked and if any error is found then an error message is displayed else a membership number and password will be generated.
* Go For Login using membership number and password and password.
* After successful login go for home page having some buttons.
* Books issued - List of books will be displaced along with data of return.
* Search - Enter the name of author's name of the books to be issued. Output: List of books related to the keyword.
* Issues book - Searched the book user wants to issues.
* Input: click the book user wants.
* Output: conformation for book issue and apology for failure in issue.
* Processing: if selected book is available then book will be issued else error will be displayed.
* Renew book - Book is issued and is about to reach the date of return.
* Input: Select the book to be renewed.
* Output: conformation message.
* Processing: If the issued book is already reserved by another user, then error message will be send and if not then conformation message will be displayed.
* Return
* Input: Return the book to the library.
* Output: The issued list will be updated and the returned book will be listed out

**Technologies**

UI/Backend – Java Core and Advance

Database – SQL

Model - MVC

**JAVA TRAINING MODULE-3**

**Day 1 To Day 5:**

**Spring:**

* Spring Core
* Spring MVC
* Spring JDBC
* Hibernate
* Spring ORM
* Spring AOP

Day 6 To Day 11:

Spring Boot:

* Spring Boot Configuration
* Spring Boot Started Dependency
* Understanding of application. Properties and application.yml
* Annotations
* Spring Data JPA
* Restful Services
* Spring Boot Security
* Spring Boot Testing

**TASK FOR MODULE-3**

**Create Friend Book – Friend book is clone of Instagram**

**Technologies:**

**Backend – Spring Boot Restful Services**

**Frontend – Spring Boot thymeleaf/jsp**

**Database – mysql**

**Build Tool -Maven**