

**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)



**Internship Report**

on

**Internship in Persistent Systems Ltd.**

An internship report submitted in partial fulfilment of the requirement for the degree of

**BACHELOR OF TECHNOLOGY**

in

**INFORMATION TECHNOLOGY**

Submitted by:

**Sumit Sharma**

**09011T181059**

**Internship – 160801**

**Faculty Mentor:**

**Dr. Saumil Maheshwari ( Assistant Professor )**

**Industry Mentor**

**Jayati Munot ( Associate Executive )**

Submitted to:

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE**

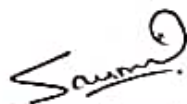
**GWALIOR - 474005**

**MAY-JUNE 2022**

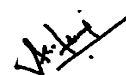
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**CERTIFICATE**

This is certified that **Sumit Sharma** (0901IT181059) has submitted the report on internship done in **Persistent Systems, Pune, Maharashtra** under the mentorship of **Dr. Saumil Maheshwari**, in partial fulfilment of the requirement for the award of degree of Bachelor of Technology in **Information Technology** from Madhav Institute of Technology and Science, Gwalior.



**Dr. Saumil Maheshwari**  
Assistant Professor  
Department of IT



**Dr. Akhilesh Tiwari**  
Professor and Head,  
Department of IT

**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**  
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**DECLARATION**

I hereby declare that the work being presented in this project report, for the partial fulfilment of requirement for the award of the degree of Bachelor of Technology in Information Technology at Madhav Institute of Technology & Science, Gwalior is an authenticated and original record of my work under the mentorship of **Dr. Saumil Maheshwari**, Assistant Professor, Information Technology.

I declare that I have not submitted the matter embodied in this report for the award of any degree or diploma anywhere else.

Date: 27-05-2022  
Place: Gwalior



Sumit Sharma  
09011T181059  
IV Year,  
Information Technology

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**ACKNOWLEDGEMENT**

The full semester internship has proved to be pivotal to my career. I am thankful to my institute, **Madhav Institute of Technology and Science** to allow me to continue my disciplinary/interdisciplinary internship as a curriculum requirement, under the provisions of the Flexible Curriculum Scheme (based on the AICTE Model Curriculum 2018), approved by the Academic Council of the institute. I extend my gratitude to the Director of the institute, **Dr. R. K. Pandit** and Dean Academics, **Dr. Manjaree Pandit** for this.

I would sincerely like to thank my department, **Department of Information Technology**, for allowing me to explore this internship. I humbly thank **Dr. Akhilesh Tiwari**, Professor and Head, Department of Information Technology, for his continued support during the course of this engagement, which eased the process and formalities involved.

I am sincerely thankful to my faculty mentors. I am grateful to the guidance of **Dr. Saumil Maheshwari**, Assistant Professor, Information Technology, for his continued support and guidance throughout the internship. I am also very thankful to the faculty and staff of the department.



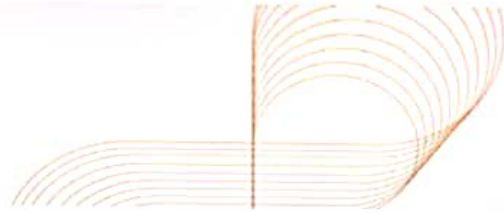
Sumit Sharma  
0901IT181059  
IV Year,  
Information Technology

## **ABSTRACT**

The purpose of this internship is to learn new technology and implement them in a project , In internship java track was assigned to me. In this track many course are assigned to me. The courses are SQL in these course I am learning how to write sql queries, how to modify data in relational database. In git I am learning about how git repositories work. In OOPs I am learning about the role of UML diagrams in project development. In core java I am learning the concept of java programming language. In html, Javascript I am learning how to design websites. In maven and spring boot I am learning how to make java project and applications using spring tool suite IDE. The problems based on these courses has to be solved in a platform called e-box.

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PSL/HR/Cert-Add/2022  
May 23, 2022

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Mr. Sumit Sharma** (Employee Code **47198**) is employed with us since **12 January 2022**. His designation is **Intern**.

According to the office records, his local and permanent addresses are :

**Local Address**

B-200, Green South Avenue,  
Shivpuri Link road  
Gwalior – 474006  
Madhya Pradesh – India

**Permanent Address**

B-200, Green South Avenue,  
Shivpuri Link road  
Gwalior – 474006  
Madhya Pradesh – India

This certificate is being issued on his request as a proof of employment and residence for verification purpose.

**For Persistent Systems Ltd.**

A handwritten signature in black ink, appearing to read 'Manisha Tapaswi', with a small flourish at the end.

**Manisha Tapaswi**  
**Senior General Manager - Human Resources**

## **LIST OF FIGURES USED**

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# 1.Introduction

This report contains information about my internship that is going on Persistent Systems Ltd. Pune Maharashtra and was start from 12th january. I got java track in this internship. This internship is very useful to enhance my previous knowledge on some topics and I also learn some new topics as well. In this internship company will assign courses both technical and soft skill related. The key part of this internship is to get trained in the assigned track so that one can experience in industry.

## 1.1 Learning

This part contains information related to the courses that was assigned to me during this internship.

### 1.1.1 Technical courses

In the internship training, both technical and soft skill was assigned for learning purpose out of which in technical courses some courses are same for interns while some courses are assigned according to the role which was assigned to a particular intern, like java track was assigned to me so, core java, maven, java script and spring boot are the courses for java track. Git, SQL and OOPs are the common courses which was assigned to all the interns.

#### 1.1.1.1 Generic courses

Following are the generic courses which was assigned during the training period of internship.

##### 1. Git and GitHub

Git is a free and open source distributed version control system designed to handle everything from small to very large projects with speed and efficiency. Below Fig. 1 show how different repository

##### Benefits of Git

- Git is distributed version control system.
- Git has integrity.
- The Git has three states that are the git working directory, repository and staging area.
- Every team member have to access of git repository.
- Everything in git can be done in offline.
- There is not any central authority in git..
- There is no need of server to make changes and shred it.
- The project will always store in the git local disk, team member can check it anytime, many operations in git is instantaneous

# Distributed Version Control

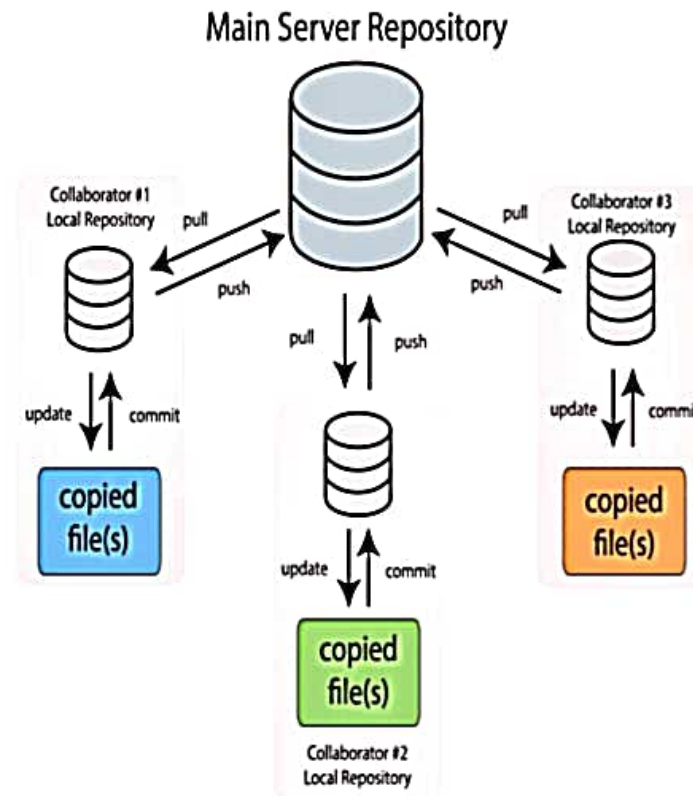


Fig. 1.1.1.1.1

## 2. SQL

SQL is a database computer language used for the data management and data retrieval in RDBMS. SQL stands for Structured Query Language.

Following are the languages that is used to create table, manipulate data and control flow of data in relational database.

DDL commands are used to create schema of table. CREATE, ALTER, TRUNCATE, and DROP commands comes under DDL commands. DDL is stands for data definition language.

DML commands are used to manage and add data in database tables. INSERT, UPDATE and DELETE are the commands commonly used in DML commands. DML is stands for data manipulation language

DCL commands are used for giving permission. GRANT and REVOKE are the commands that are commonly used in DCL. DCL is stands for data control language.



Fig. 1.1.1.1.2

### 3. OOPs Concept

In this course the most focused topic is UML diagrams, its uses and ways to make this diagram. UML diagrams for classes and project are one of the most useful way to know about the data flow in a classes or project. Classes, attributes, operations, and relationships between objects are used to represent a project so that everyone understand the project very easily.

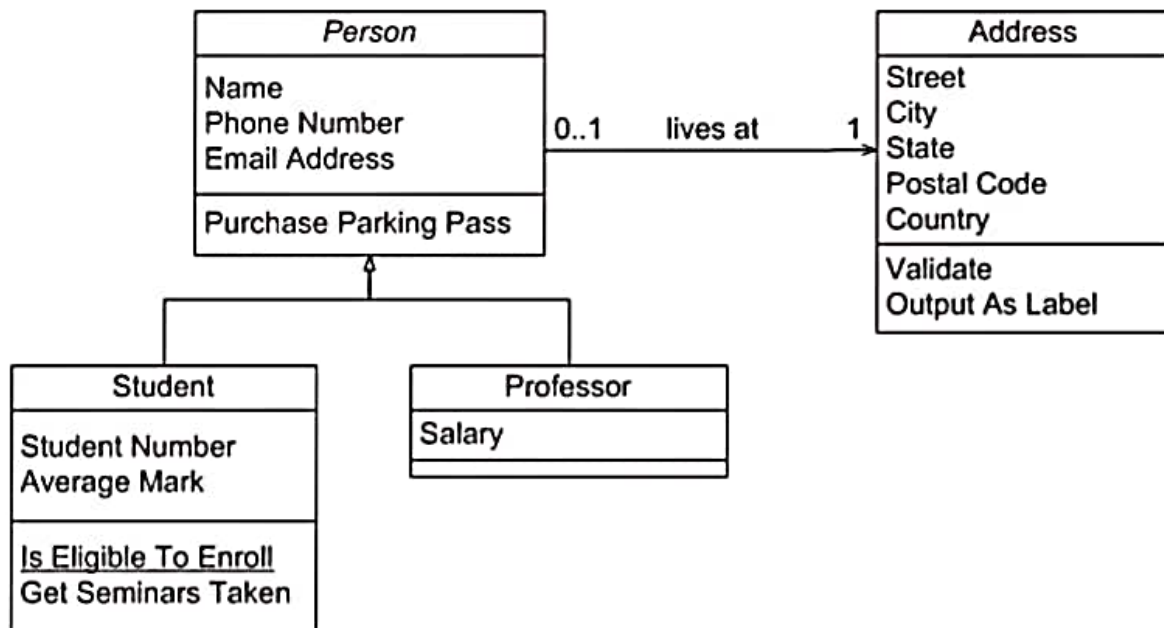


Fig. 1.1.1.1.3

### 1.1.1.2 Track (Java) Based courses

#### 1. Core Java

Java is high level Object oriented language which is used in Project development.

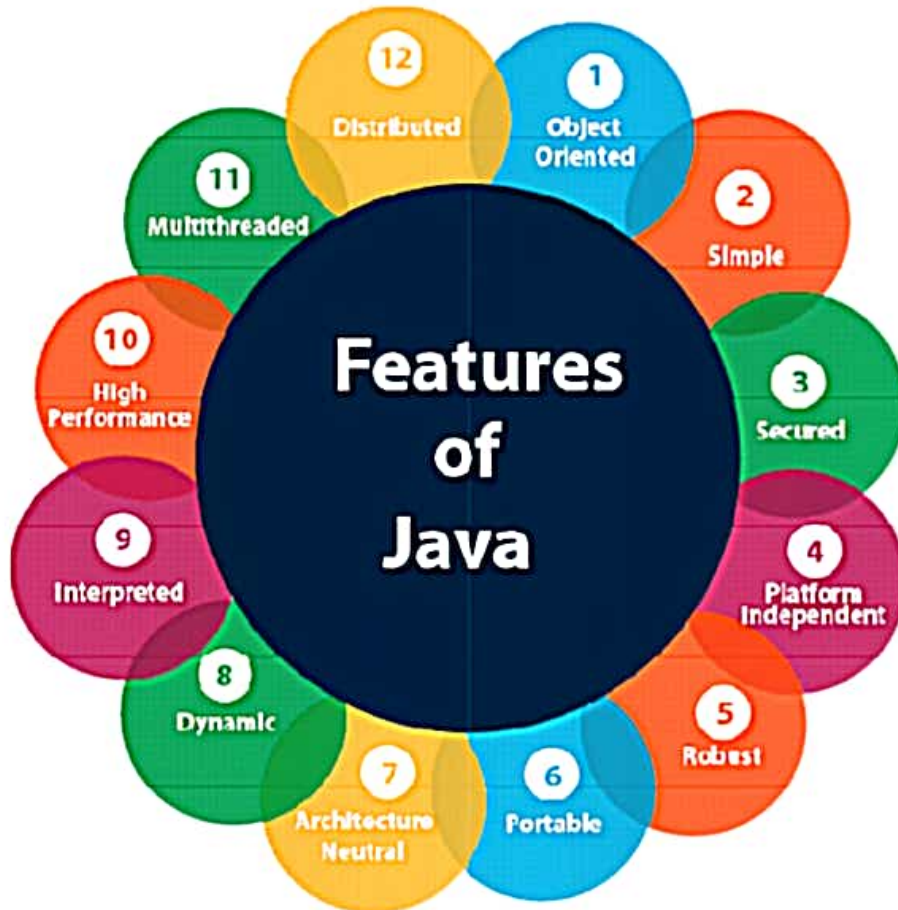


Fig. 1.1.1.2.1

#### 2. Maven

Apache Maven is a automatic build software project management tool. It is working on the concept of a project object model (pom.xml file). The same pom.xml file is used in spring boot based IDE called spring tool suite in which we have to add all needed dependencies. Maven can manage a project's build, reporting and documentation from a central piece of information.

- Some Features of maven : -
- Maven makes setup of project very easy.
- Maven is consistently used across all projects.
- Maven is a dependency management.
- Using maven we can able to work with multiple projects at the same time.
- Using maven we can easily access to new features instantly with little or no extra configuration.
- In spring tool suite maven is used to import the project.
- We have to just add all the required dependencies in a single pom.xml file.

### 3. Spring

**Spring** - A framework that helps you write enterprise Java apps.

**Boot** - “Bootstrap” meaning a self-starting process that is supposed to proceed without external input.

**Spring Boot** – An opinionated view of building Spring applications and get you up and running as quickly as possible.

Spring is a framework in which we have requirement of XML configuration for the development of java based applications. In spring there is no need to make object of class, its automatically create it using beans. Spring is working on the principle of dependency Injection or inversion of control (IOC) while in spring boot it is easy to bootstrap a spring-based application. The basic configurations are already there in spring boot. It hides the complexity which help the developers for application development.

- A rapid application development platform is mostly based on Spring.
- An opinionated instance of a Spring application is Convention over configuration!
- Most Spring Boot applications need very few or no Spring configuration for project development.

Features Of Spring Boot :-

- Spring can create stand-alone java projects and Spring applications.
- Tomcat and Jetty are embedded in spring boot.
- It will provide basic starter dependencies so that you can easily build configuration.
- Whenever possible it is automatically configure Spring and 3rd party libraries.

### Spring Boot flow architecture

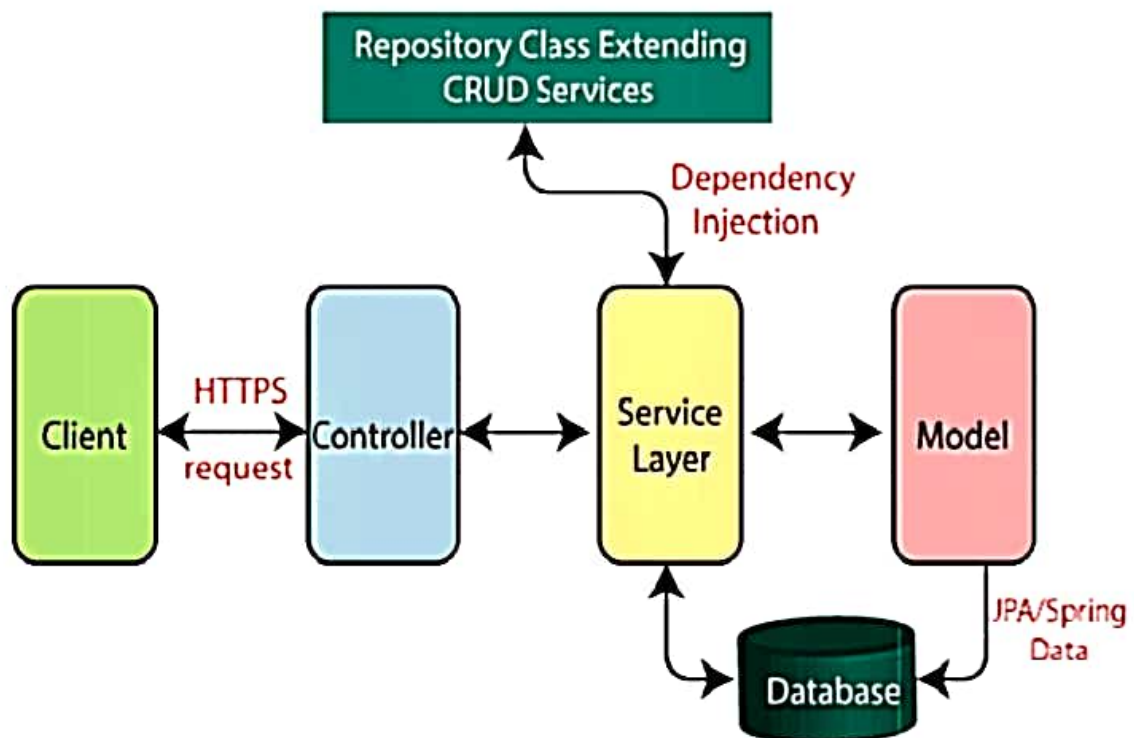


Fig. 1.1.1.2.2

### 4. HTML

HTML is the standard markup language for Web pages. HTML stands for hyper text markup language. With HTML we can create your own Website and decorate it using CSS. Together HTML and CSS we

can create the front end of the web sites and these two are the basic building blocks for web sites.

some of the key advantages of learning HTML:

- **Creating Web site** We can create a new website or make changes in existing web template using HTML.
- **Web Designer** - HTML and CSS designing is a must skill. HTML and CSS are the basic building block for creating frontend of a website
- **Increase web performance** - Using HTML you can optimize the website, you make it fast, and increase the performance of the website.
- **Learn other technologies** - Once you have a knowledge of HTML then you can start learning other technologies like javascript, nodejs, angular, php for backend purpose.

## 5. JavaScript

JavaScript is the most used programming language in the world. It is very frequently used programming language in the development of Web. JavaScript will provide behavior to the websites. It is very flexible programming language which is be used for both frontend and backend the development. Developers have written a variety of tools on top of the core JavaScript language, unlocking a vast amount of functionality with minimum effort.

The infographic is titled "What's the Difference?" and is divided into three horizontal sections. Each section features a language logo, its name, a subtitle, and a list of key functions.

Language	Subtitle	Key Functions
HTML (Hypertext Markup Language)	Create the structure	• Controls the layout of the content • Provides structure for the web page design • The fundamental building block of any web page
CSS (Cascading Style Sheet)	Stylize the website	• Applies style to the web page elements • Targets various screen sizes to make web pages responsive • Primarily handles the "look and feel" of a web page
JavaScript	Increase interactivity	• Adds interactivity to a web page • Handles complex functions and features • Programmatic code which enhances functionality

Fig. Fig. 1.1.1.2.3

### 1.1.2 Soft skills

Soft skills are considered a complement to hard skills, which refer to a person's knowledge and occupational skills. Sociologists may use the term soft skills to describe a person's "EQ" or "Emotional Intelligence Quotient," as opposed to "IQ" or "Intelligence Quotient."

Soft skills are very helpful in non-technical skills that includes time management, creative thinking, teamwork, conflict resolution and many more. These skills are relates how you work in industry, how to interact with client, how to handle conflict situations. Soft skills makes a employee more adaptable and flexible in work place.

Under the soft skills development there were many small courses and the lecture session aim to develop personality traits and behavior that are expected from the IT professionals.

These courses includes :

- Personality Traits
- Business etiquette
- Communication Enhancement Program
- Safe Workplace

## **2. Implementation**

All above mentioned generic and track based courses have to be completed in a platform called e-box where we have to solve given problems about particular topics of the course. In e-box platform everyone have to implemented the knowledge by solving both multi correct and coding problems.

In e-box platform proctored tests was also organize which is based on the courses that was completed in training. The duration of these test is one hour or four hours depending on the type of test.

### **2.1 Knowledge Assessment**

To check the knowledge about a particular subject which was completed in training, a proctored assessments were conducted. Everyone should have to score 70% or more for successfully completed the assessment. There are three chances given to all for every assessment to successfully completed that assessment.

Following are the assessments that were conducted in e-box platform :-

#### **1. GEMS Generic Paper - Combined Test**

GEMS Generic Paper - Combined Test was conducted on 04-03-2022 and this assessment contains problems based on all generic courses that are git, OOPs and SQL. I have successfully cleared this assessment in my first attempt with grade 'A'.

#### **2. GEMS Core Java and Junit - Combined Test**


GEMS Core Java and Junit - Combined Test was conducted on 17-03-2022 and this assessment contains problems based on technical course core Java and Junit. I have successfully cleared this assessment in my first attempt with grade 'A'.

#### **3. GEMS JS\_HTML\_CSS Combined\_Test**

GEMS JS\_HTML\_CSS Combined\_Test was conducted on 03-05-2022 and this assessment contains problems based on technical courses html and Java Script. I have successfully cleared this assessment in my first attempt with grade 'A+'.

## 4. Spring Boot and Maven

Spring Boot and Maven test was conducted on 19-05-2022 and this assessment contains problems based on technical courses maven and Spring Boot. I have successfully cleared this assessment in my first attempt with grade 'A'.



Assessment Summary				
■ F 0-69    ■ B 70-79    ■ A 80-89    ■ A+ 90-100				
S.No	Assessment Name	Attempted Date	Grade	Status
1	GEMS Generic Paper - Combined Test	Not Attempted	-	-
2	GEMS Generic Paper - Combined Test	04 Mar 2022	A	Cleared
3	GEMS Core Java and Junit - Combined Test	17 Mar 2022	A	Cleared
4	GEMS JS_HTML_CSS Combined_Test	03 May 2022	A+	Cleared
5	Spring Boot and Maven	19 May 2022	A	Cleared
6	GEMS Powerskill	26 May 2022	A	Cleared

Fig. 2.1.1

## 3.Reports

This section contains the progress reports that was provided by company mentor **Jayati Munot**. These reports are basically the evaluation of work that done by me on assigned work. Two type of reports are present in this section that are internship progress report and fortnightly report.

### 3.1 Internship Progress Report

Persistent Systems point of contact or industry mentor **Jayati Munot** was send a overall internship **Progress Report** which contains the information about the participation and performance given by me to a particular course. This report also contains the summary of Assessment test, which was conducted by company in proctored mode, it contains information related to Grade and Status on a particular assessment. At the end of the report a feedback was given according to the performance.

## Progress Report



Sumit Sharma  
sumit\_sharma3@persistent.com



15.67  
Days Worked



99  
Overall  
Participation



94h  
Time Spent



93  
Overall  
Performance

### Java Program

Batch Name : PSL\_JAVA2\_JAN\_BATCH\_02

Batch Owner : Varsha Mulik  
varsha\_mulik@persistent.com

#### Course Learning Metrics

S.No	Course Name	Skill Name	Participation	Performance
1	Persistent - SQL Queries	SQL	100	100
2	Persistent - Git For Beginners	DevOps	100	100
3	Persistent - OOPs Concepts	OOPs	100	-NA-
4	Persistent - Core Java & Junit	Java	100	100
5	Persistent - HTML	HTML	100	100
6	Persistent - JavaScript	Javascript	100	100
7	Persistent - Maven	Maven	100	-NA-
8	Persistent - Spring	Spring	90	57

Fig. 3.1.1

## Assessment Summary

■ F 0-69    ■ B 70-79    ■ A 80-89    ■ A+ 90-100

S.No	Assessment Name	Attempted Date	Grade	Status
1	GEMS Generic Paper - Combined Test	Not Attempted	-	-
2	GEMS Generic Paper - Combined Test	04 Mar 2022	A	Cleared
3	GEMS Core Java and Junit - Combined Test	17 Mar 2022	A	Cleared
4	GEMS JS_HTML_CSS Combined_Test	03 May 2022	A+	Cleared
5	Spring Boot and Maven	19 May 2022	A	Cleared
6	GEMS Powerskill	26 May 2022	A	Cleared

Fig. 3.1.2

PSL\_JAVA2\_JAN\_BATCH\_02

### Feedback

**Sumit Sharma** Aced it!!!!

**Sumit Sharma** has completed all the training activities and aced the assessments with outmost dedication. More time can be spent on gaining hands-on experience, because only practice can make perfect.

**Continuous learning is key to success!**

Fig. 3.1.3

## 3.2 Fortnightly Report

MADHAN INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

### FORMAT

#### FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	SUMIT SHARMA	Department	Information Technology		
Industry/Organization	PERSISTENT SYSTEMS	Date/Duration	21/01/22 -03/02/22		
<b>Criterion</b>	<b>Poor</b>	<b>Average</b>	<b>Good</b>	<b>Very Good</b>	<b>Excellent</b>
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge upgradation				✓	
Performance/Quality of work				✓	
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of Work done/Area/Topic					
<b>OVERALL GRADE (Any one)</b>	<b>VERY GOOD</b>				
<b>Name of Industry mentor</b>	JAYATI MUNOT				
<b>Signature of Industry Mentor</b>	<i>Jayati Munot</i>				

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### FORMAT

#### FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	SUMIT SHARMA	Department	Information Technology		
Industry/Organization	PERSISTENT SYSTEMS	Date/Duration	04/02/22 -17/02/22		
<b>Criterion</b>	<b>Poor</b>	<b>Average</b>	<b>Good</b>	<b>Very Good</b>	<b>Excellent</b>
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge upgradation				✓	
Performance/Quality of work				✓	
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of Work done/Area/Topic					
<b>OVERALL GRADE (Any one)</b>	<b>VERY GOOD</b>				
<b>Name of Industry mentor</b>	JAYATI MUNOT				
<b>Signature of Industry Mentor</b>	<i>Jayati Munot</i>				

MADHAN INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

**FORMAT**

**FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR**

Name of student	SUMIT SHARMA		Department	Information Technology	
Industry/Organization	PERSISTENT SYSTEMS		Date/Duration	18/02/22 -03/03/22	
<b>Criterion</b>	<b>Poor</b>	<b>Average</b>	<b>Good</b>	<b>Very Good</b>	<b>Excellent</b>
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge upgradation				✓	
Performance/Quality of work				✓	
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work				✓	
Comment on nature of Work done/Area/Topic					
<b>OVERALL GRADE (Any one)</b>	<b>VERY GOOD</b>				
<b>Name of Industry mentor</b>	JAYATI MUNOT				
<b>Signature of Industry Mentor</b>	<i>Jayati Munot</i>				

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**FORMAT**

**FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR**

Name of student	SUMIT SHARMA		Department	Information Technology	
Industry/Organization	PERSISTENT SYSTEMS		Date/Duration	04/03/22 -17/03/22	
<b>Criterion</b>	<b>Poor</b>	<b>Average</b>	<b>Good</b>	<b>Very Good</b>	<b>Excellent</b>
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge upgradation					✓
Performance/Quality of work				✓	
Behaviour/Discipline/Team work					✓
Sincerity/Hard work				✓	
Comment on nature of Work done/Area/Topic					
<b>OVERALL GRADE (Any one)</b>	<b>VERY GOOD</b>				
<b>Name of Industry mentor</b>	JAYATI MUNOT				
<b>Signature of Industry Mentor</b>	<i>Jayati Munot</i>				

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**FORMAT**

**FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR**

Name of student	SUMIT SHARMA	Department	Information Technology		
Industry/Organization	PERSISTENT SYSTEMS	Date/Duration	18-03/22 -04-04/22		
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge upgradation				✓	
Performance/Quality of work				✓	
Behaviour/Discipline/Team work					✓
Sincerity/Hard work				✓	
Comment on nature of Work done/Area/Topic					
<b>OVERALL GRADE (Any one)</b>	VERY GOOD				
<b>Name of Industry mentor</b>	JAYATI MUNOT				
<b>Signature of Industry Mentor</b>	<i>Jayati Munot</i>				

MADHAN INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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**FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR**

Name of student	SUMIT SHARMA	Department	Information Technology		
Industry/Organization	PERSISTENT SYSTEMS	Date/Duration	05/04/22 -18/04/22		
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge upgradation				✓	
Performance/Quality of work				✓	
Behaviour/Discipline/Team work					✓
Sincerity/Hard work				✓	
Comment on nature of Work done/Area/Topic					
<b>OVERALL GRADE (Any one)</b>	VERY GOOD				
<b>Name of Industry mentor</b>	JAYATI MUNOT				
<b>Signature of Industry Mentor</b>	<i>Jayati Munot</i>				

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**FORMAT**

**FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR**

Name of student	SUMIT SHARMA		Department	Information Technology	
Industry/Organization	PERSISTENT SYSTEMS		Date/Duration	19/04/22 -02/05/22	
<b>Criterion</b>	<b>Poor</b>	<b>Average</b>	<b>Good</b>	<b>Very Good</b>	<b>Excellent</b>
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge upgradation				✓	
Performance/Quality of work					✓
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work				✓	
Comment on nature of Work done/Area/Topic					
<b>OVERALL GRADE (Any one)</b>	<b>VERY GOOD</b>				
<b>Name of Industry mentor</b>	JAYATI MUNOT				
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**FORMAT**

**FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR**

Name of student	SUMIT SHARMA		Department	Information Technology	
Industry/Organization	PERSISTENT SYSTEMS		Date/Duration	03/05/22 -16/05/22	
<b>Criterion</b>	<b>Poor</b>	<b>Average</b>	<b>Good</b>	<b>Very Good</b>	<b>Excellent</b>
Punctuality/Timely completion of assigned work			✓		
Learning capacity/Knowledge upgradation				✓	
Performance/Quality of work				✓	
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work				✓	
Comment on nature of Work done/Area/Topic					
<b>OVERALL GRADE (Any one)</b>	<b>VERY GOOD</b>				
<b>Name of Industry mentor</b>	JAYATI MUNOT				
<b>Signature of Industry Mentor</b>	<i>Jayati Munot</i>				

## References

<https://persistentpro.e-box.co.in>

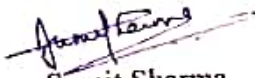
<https://persistent.udemy.com/learning-paths/>

Recorded lectures and some study material provide by company.

## Appendix

Faculty mentor **Dr. Saumil Maheshwari Assistant Professor** has helped me throughout my learning and project development. In learning he cleared my doubts and provide me materials for learning. In project development he guided me and took updates regarding the progress and identify the mistakes and taught me how to handle pressure. He gave me all the needed suggestion to make my project even better whenever needed. Whenever I was facing some issues regarding the internship he helped me immediately and always supported me for the right.

**Dr. Saumil Maheshwari**  
**Assistant Professor**  
Department of IT

  
Sumit Sharma  
0901IT181059  
IV Year,  
Information Technology