

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)



Final Year Internship Report

Project Trainee at Wipro technologies Ltd.

Submitted By:

MOHIT JOHN

0901CS181060

Faculty Mentor:

Dr. Ranjeet Kumar Singh, Assistant professor

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE
GWALIOR - 474005 (MP) est. 1957

JUNE 2022

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)



WIPRO TECHNOLOGIES LTD.

A final year internship report submitted in partial fulfillment of the requirement for the degree
of

BACHELOR OF TECHNOLOGY

in

COMPUTER SCIENCE AND ENGINEERING

Submitted by:

Mohit John

0901CS181060

Internship Faculty Mentor:

Dr. Ranjeet Kumar Singh, Assistant professor

Submitted to:

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE
GWALIOR - 474005 (MP) est. 1957

JUNE 2022

Proof of Internship Received from Industry/Company



March 4, 2022

Dear Mohit John,

Sub: Letter of Engagement as Intern

We are pleased to inform you that you have been selected for undergoing Internship in our organization Wipro Limited (Wipro) as Intern under the following terms and conditions:

1. Nature of Engagement

You will be engaged as an **Intern at Wipro**.

2. Duration of training

The duration of **internship** will be 10 to 16 weeks starting from March 10th. During this period, Wipro shall evaluate your performance. Unless Wipro extends the period of internship, in writing, solely at its discretion, your internship shall automatically stand terminated at the expiry of the internship period.

3. Verification Report

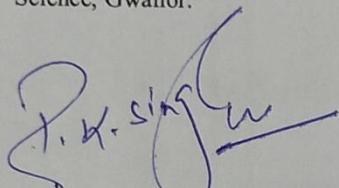
Your engagement with Wipro will be subject to receipt of satisfactory report with regard to verification of the particulars furnished by you in your application and information given at the time of Interview. If any declaration or information furnished to Wipro proves to be false or if you have wilfully suppressed any material information, in such case, you will be liable to removal from training without any notice.

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

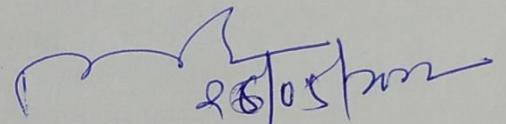
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CERTIFICATE

This is certified that **MOHIT JOHN** (0901CS181060) has submitted the Internship report titled **WIPRO TECNOLOGIES LTD.** of the work he has done under the mentorship of **Dr. Ranjeet Kumar Singh**, in partial fulfillment of the requirement for the award of degree of Bachelor of Technology in Computer Science and Engineering from Madhav Institute of Technology and Science, Gwalior.



Dr. Ranjeet Kumar Singh
Faculty Mentor
Assistant Professor
Computer Science and Engineering



Dr. Manish Dixit
Professor and Head,
Computer Science and Engineering

Dr. Manish Dixit
Professor & HOD
Department of CSE
M.I.T.S. Gwalior

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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

DECLARATION

I hereby declare that the work being presented in this Internship report, for the partial fulfillment of requirement for the award of the degree of Bachelor of Technology in CSE at Madhav Institute of Technology & Science, Gwalior is an authenticated and original record of my work under the mentorship of **Dr. Ranjeet Kumar Singh, Assistant professor**, Department of CSE.

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



Mohit John
0901CS181060
IV Year,
Computer Science and Engineering

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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

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 Computer Science and Engineering, for allowing** me to explore this internship. I humbly thank **Dr. Manish Dixit**, Professor and Head, Department of Computer Science and Engineering, 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. Ranjeet Kumar Singh, Assistant professor**, Department of Computer Science and Engineering, for his continued support and close mentoring throughout the internship. I am also very thankful to the faculty and staff of the department.



Mohit John
0901CS181060
IV Year,
Computer Science and Engineering

ABSTRACT

AN INTERNSHIP REPORT FOR FINAL YEAR EVALUATION

This internship report describes the internship progress till now at the Wipro Technologies Limited, Bangalore. Wipro Technologies is a Service-based Organization. Wipro is the leading provider of a unified digital transformation platform with native process automation, content services, and communication management capabilities. Globally, successful enterprises rely on Wipro's industry-recognized low code application platform to develop and deploy complex, content-driven, and customer-engaging business applications on the cloud, AI-ML, Cyber security, digital transformation, robotics, Data-analytics, and other different technologies. Wipro simply works with speed and agility. I worked on java technology in this internship I learnt how to complete a work with the team. During the internship I learnt many interpersonal and intrapersonal skills. I increased my technical knowledge in the field that I was given by the organization.

Besides all these, I improved my learning skills, team management skills, leading skills and after all that I worked on a Project in a team. It was a great experience for me.

About the Organization:

Wipro Limited is an Indian multinational corporation that provides information technology, consulting and business process services. Thierry Delaporte has served as CEO and managing director of Wipro from July 2020. It is headquartered in Bangalore, Karnataka, India.

Wipro's capabilities range across cloud computing, cyber security, artificial intelligence, robotics, Data analytics etc.

It received the national award of excellence in corporate Governance from the institute of Company Secretaries of India during the year 2004.

Wipro received the NASSCOM corporate Award for excellence in Diversity and inclusion, 2012, in the category 'Most Effective implementation of practice and technology for persons with disabilities.

In march 2017, Wipro was recognized as one of the World's most ethical companies by US-Based Ethisphere Institute for the sixth consecutive year.

Internship:

I have learnt many things in this internship. During the internship I was assigned to a particular domain i.e. JAVA J2EE domain.

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Chapter 1: INTERNSHIP OVERVIEW

1.1 Introduction:

The Wipro internship that we joined on 10th March started with a one day orientation program i.e. Wipro Norms, rules and achievements. In Which, I interacted with colleagues and seniors who not only taught me about the company but also made me familiar with various aspect of life. I also learnt about Wipro policies, work culture, company legacy. It is followed by training in the respective domain which was JAVA J2EE. In this training, I was taught about Wipro Clients and offices all over the World. After that they told us about PBL App and some configurations about outlook account. After the successful completion of Training We were assigned to a particular Project. It was a team project which gave me good exposure to the products, their usage and their application, and also allowed me to interact with my colleagues and help each other. Our task was to make a complete online pizza ordering website and learn how to convert it into an application using Wipro products.

Following this workshop, I had to go through WQS training which included other Wipro policies, about our attendance sheet, where to report to, and how to use Wipro services.

1.2 Objectives and Scope:

- The objective of this internship is to learn new technology.
- The technology that I learnt was Java which can be used in future for making various projects.
- I learnt about oops concepts and methods in java.
- The main objective is to use our learning in the organization after joining.
- Java is an old language so that its scope is still very good in big tech companies.

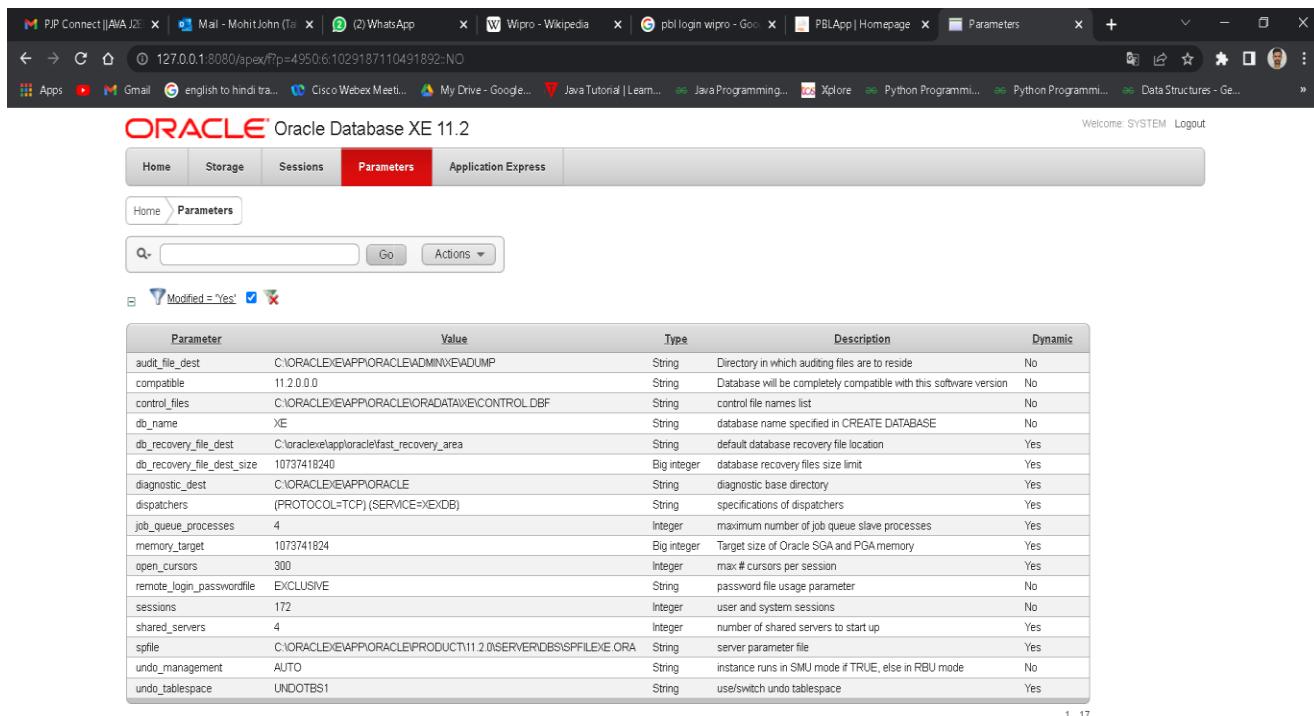
1.3 Internship Features:

The Internship Report serves multiple purpose. Help the student to develop their written communication skills. Serve as an archival record of the internship experience. Give the student an opportunity to reflect on the professional aspect of the internship experience and the skill that we learned. Following are some features of doing this internship.

- Team work and management.
- Consistency
- Learnt about corporate life
- Learnt new skill

1.4 System Requirement:

- **Virtual machine** – Virtual Machine is used to work on our project as well as to learn about them. Virtual machine has made things easier for us to understand.
- **Database:** Database which we used is Oracle 11g



Parameter	Value	Type	Description	Dynamic
audit_file_dest	C:\ORACLE\APP\ORACLE\ADMIN\XE\ADUMP	String	Directory in which auditing files are to reside	No
compatible	11.2.0.0.0	String	Database will be completely compatible with this software version	No
control_files	C:\ORACLE\APP\ORACLE\ORADATA\XE\CONTROL.DBF	String	control file names list	No
db_name	XE	String	database name specified in CREATE DATABASE	No
db_recovery_file_dest	C:\oracle\product\11.2.0\oradata\XE\fast_recovery_area	String	default database recovery file location	Yes
db_recovery_file_dest_size	10737418240	Big integer	database recovery files size limit	Yes
diagnostic_dest	C:\ORACLE\APP\ORACLE	String	diagnostic base directory	Yes
dispatchers	(PROTOCOL=TCP) (SERVICE=XE)	String	specifications of dispatchers	Yes
job_queue_processes	4	Integer	maximum number of job queue slave processes	Yes
memory_target	1073741824	Big integer	Target size of Oracle SGA and PGA memory	Yes
open_CURSORS	300	Integer	max # cursors per session	Yes
remote_login_passwordfile	EXCLUSIVE	String	password file usage parameter	No
sessions	172	Integer	user and system sessions	No
shared_servers	4	Integer	number of shared servers to start up	Yes
spfile	C:\ORACLE\APP\ORACLE\PRODUCT\11.2.0\SERVER\DBS\SPFILEXE.ORA	String	server parameter file	Yes
undo_management	AUTO	String	instance runs in SMU mode if TRUE, else in RBU mode	No
undo_tablespace	UNDOTBS1	String	use/switch undo tablespace	Yes

Fig.1:Oracle Database

- **Tomcat server 9.0**

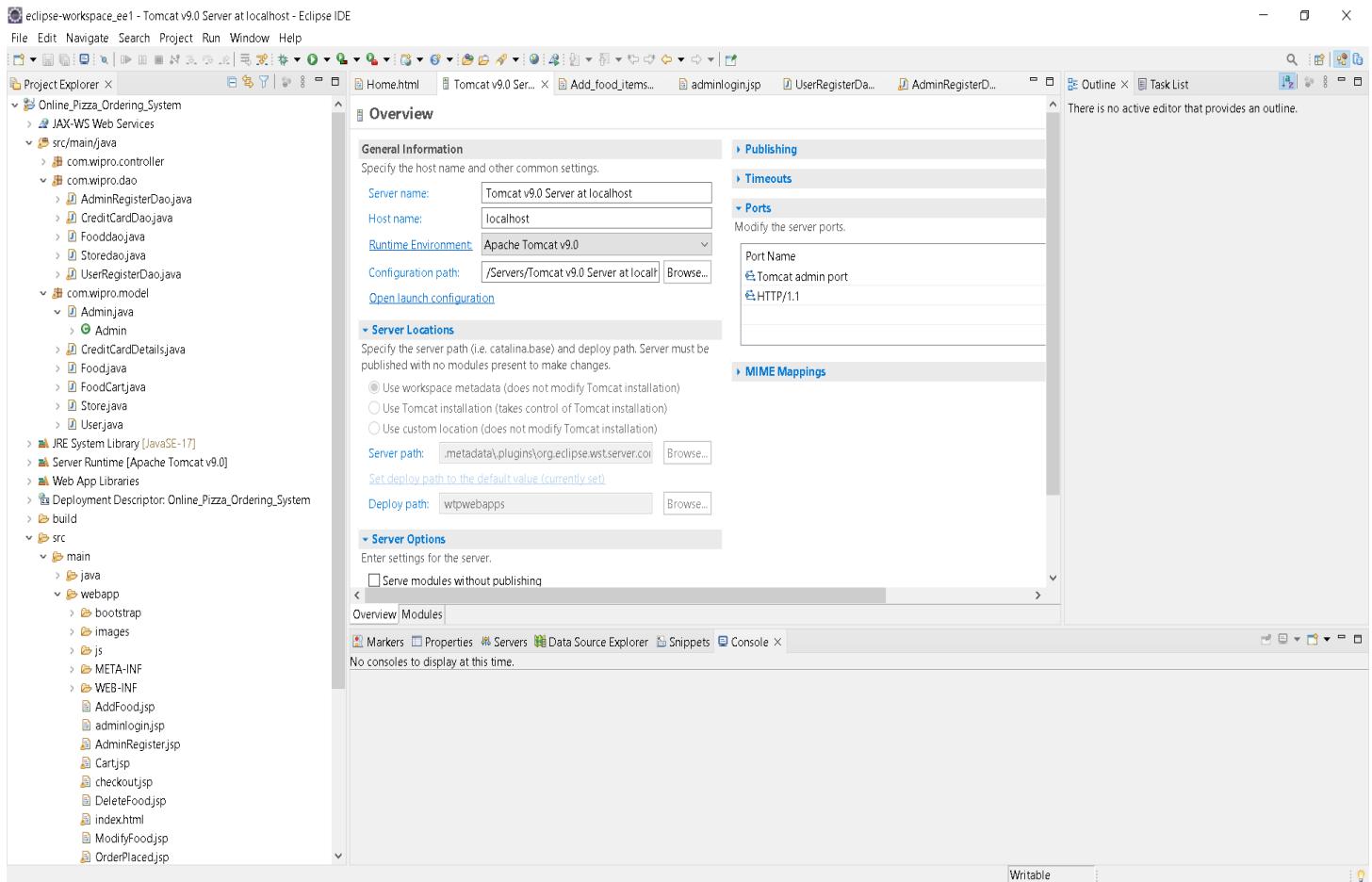
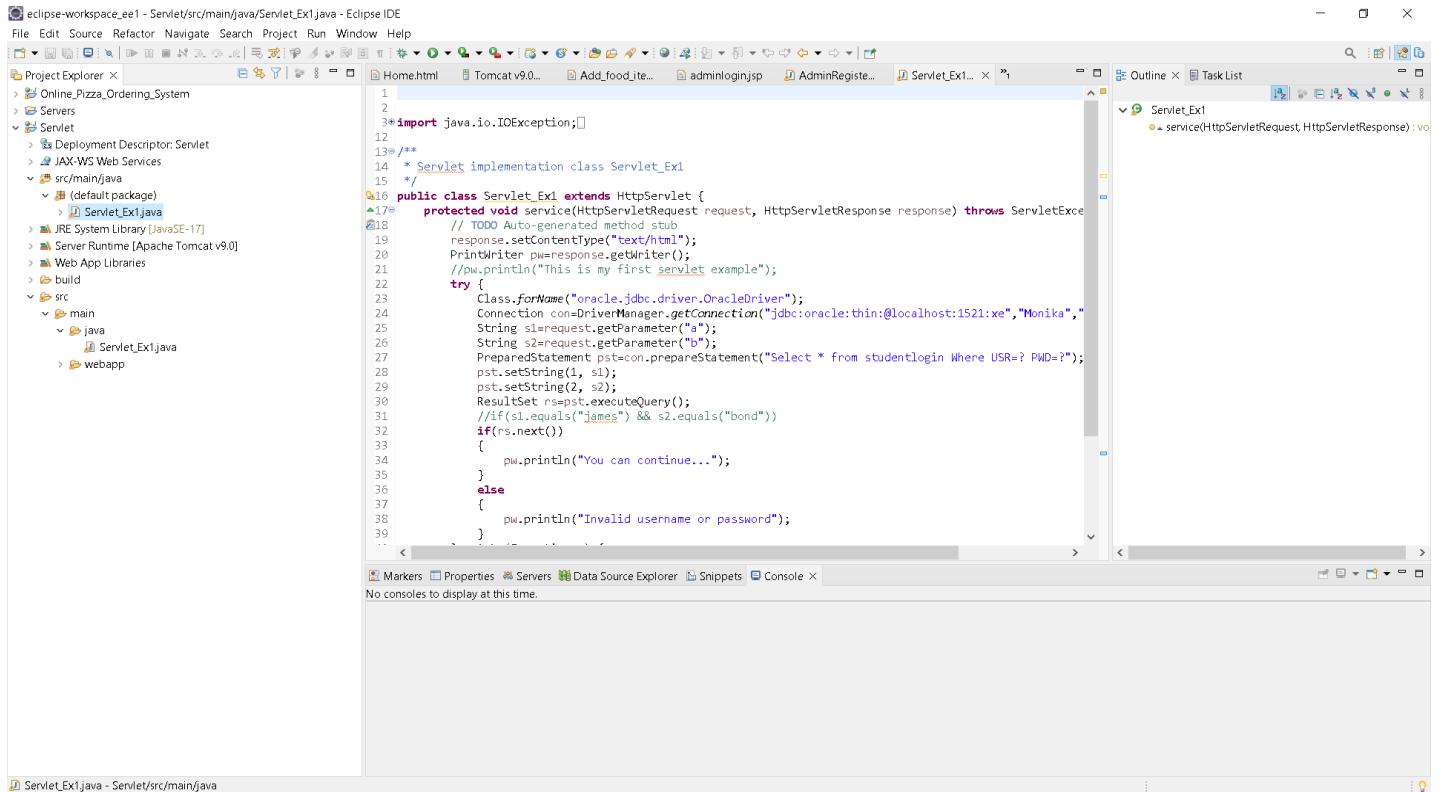


Fig.2: Tomcat server 9.0

- **Servlet:** A servlet is a program which is written in java and is a part of server application and it is used to service request from client.



```

1
2
3* import java.io.IOException;
4
5 /**
6  * Servlet implementation class Servlet_Ex1
7 */
8
9 public class Servlet_Ex1 extends HttpServlet {
10    protected void service(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
11        // TODO Auto-generated method stub
12        response.setContentType("text/html");
13        PrintWriter pw=response.getWriter();
14        //pw.println("This is my first servlet example");
15        try {
16            Class.forName("oracle.jdbc.driver.OracleDriver");
17            Connection con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","Monika","");
18            String s1=request.getParameter("s1");
19            String s2=request.getParameter("s2");
20            PreparedStatement pst=con.prepareStatement("Select * from studentlogin Where USR=? PWD=?");
21            pst.setString(1, s1);
22            pst.setString(2, s2);
23            ResultSet rs=pst.executeQuery();
24            //if(s1.equals("james") && s2.equals("bond"))
25            if(rs.next())
26            {
27                pw.println("You can continue...");
28            }
29            else
30            {
31                pw.println("Invalid username or password");
32            }
33        }
34    }
35}
36
37
38
39

```

Fig.3: Servlet

Chapter 2: PROJECT

2.1 Objective:

The objective of this Project is to increase development knowledge of the Candidates. As this is an online pizza ordering website after its implementation we can create other online stores websites which will help in digitalization of marketing among the peoples. Not only garments we can sell anything on online market like food, grocery, and many more.



Welcome to Pizza Store

Please select your preferred method to login : type(admin/user)

User

Administrator

Fig.4: project 1

2.2 Solution Scope:

Below functionality shall be part of delivery:

1. End to end workflow for tracking purpose
2. Email trigger functionality
3. Master maintenance control through frontend access
4. Reports

Chapter 3: PRELIMINARY DESIGN

3.1 Process Flow:

Step - 1

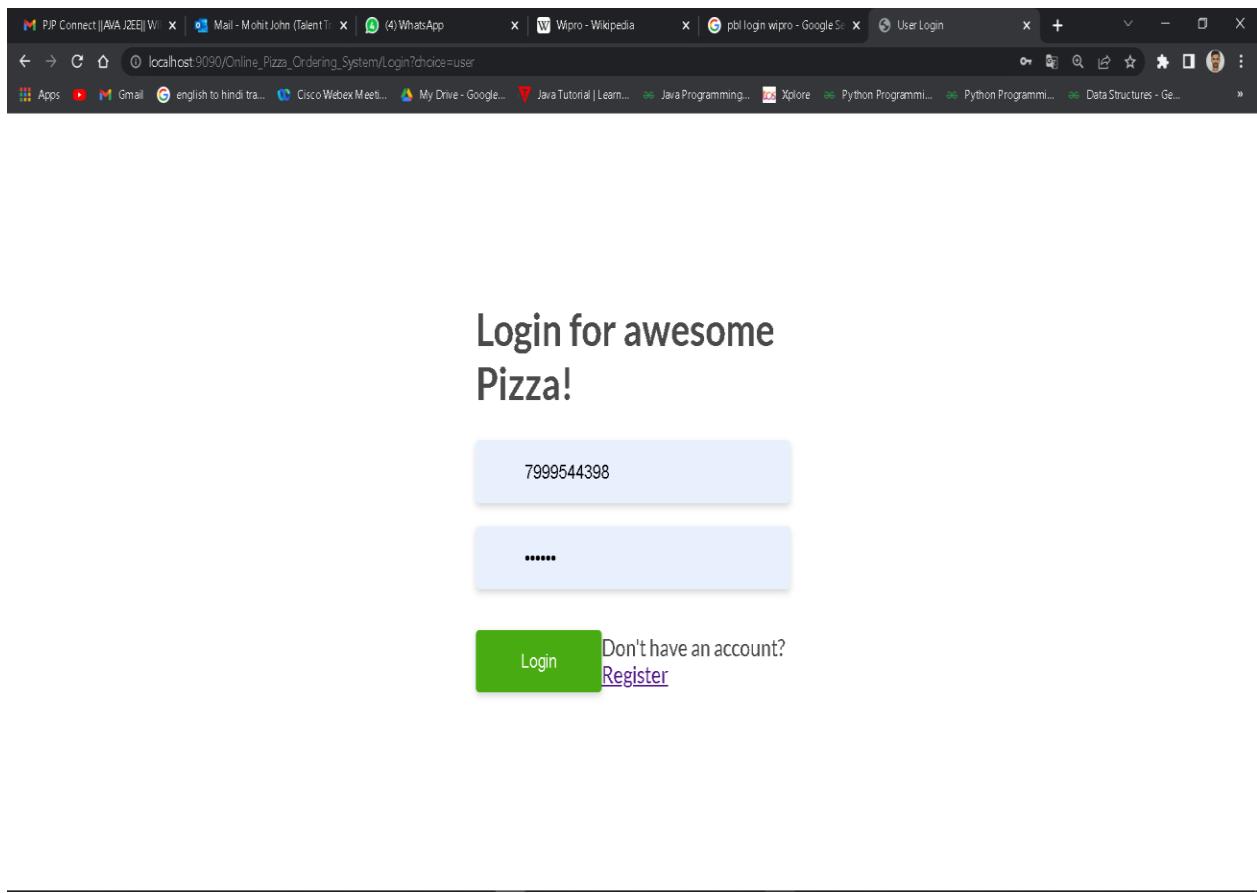
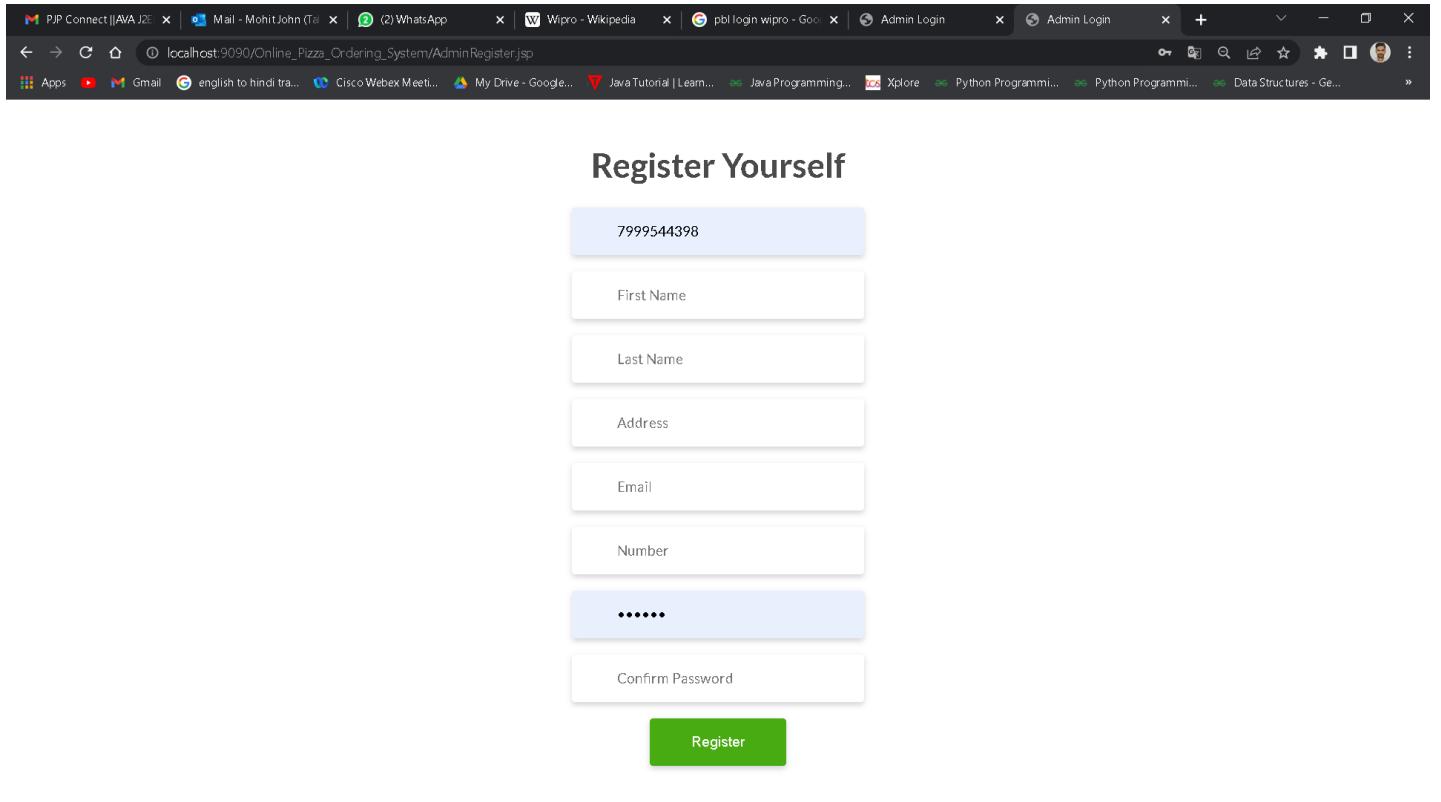


Fig.5: Login page

Step-2



Register Yourself

7999544398

First Name

Last Name

Address

Email

Number

Confirm Password

Register

Fig.6: Register page

3.2 Working:

- This project will work as a fully functional online store website for ordering various types of Pizzas.
- For HTML requests web servers are capable enough but they don't know how to deal with dynamic requests.
- For dynamic requests there are two technologies in java and they are Servlet and Jsp.
- The Jsp and Servlet are the server side technologies that extends the functionality of web server.

3.3 IDE used in Project:

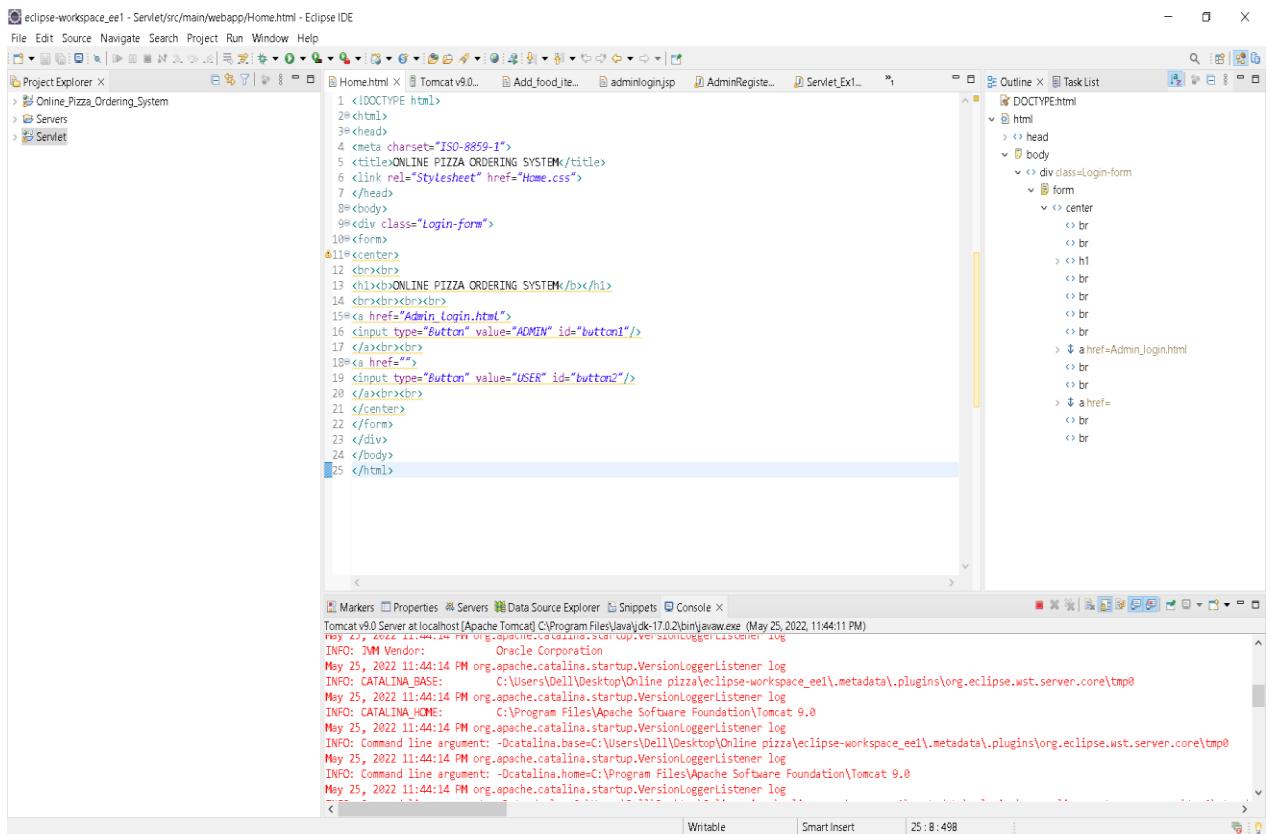
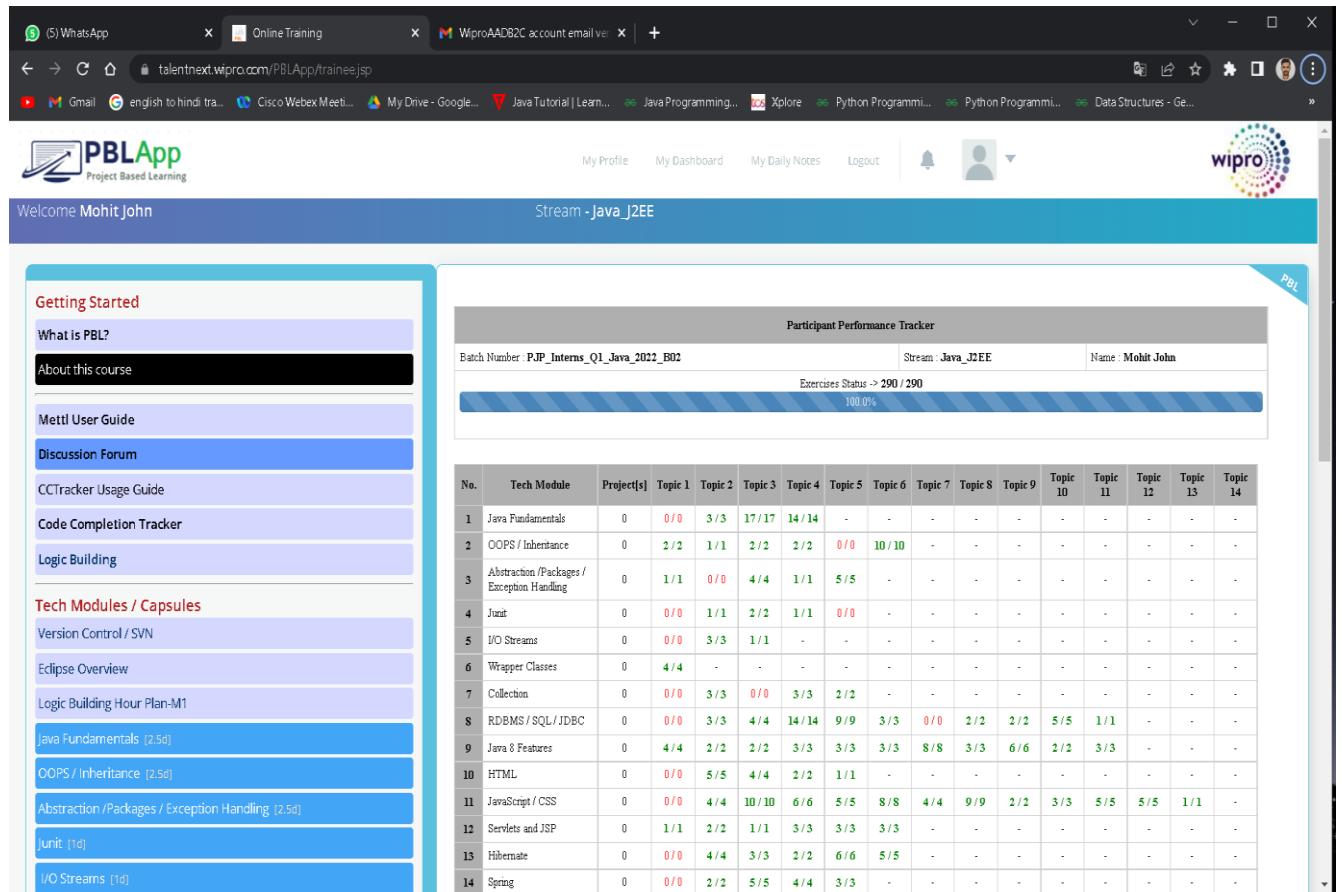


Fig.7: Eclipse IDE

Chapter 4: FINAL REPORT

The image describes my work during my internship Project submission and It also works as my profile which is 100% complete on submitting all weekly Projects.



The screenshot shows a web browser window for the PBLApp (Project Based Learning) platform. The URL is talentnext.wipro.com/PBLApp/trainee.jsp. The page is titled "Stream - Java_J2EE". The header includes links for "My Profile", "My Dashboard", "My Daily Notes", "Logout", and a user icon. The main content area is titled "Participant Performance Tracker" and displays a table of performance data. The table has columns for "No.", "Tech Module", "Project(s)", and 14 "Topic" columns (Topic 1 to Topic 14). The data shows completion status for each topic across various modules. The table header includes "Batch Number: PJP_Interns_Q1_Java_2012_B02", "Stream: Java_J2EE", and "Name: Mohit John". The "Exercises Status" is listed as 290 / 290, with a 100.0% completion bar.

No.	Tech Module	Project(s)	Topic													
			Topic 1	Topic 2	Topic 3	Topic 4	Topic 5	Topic 6	Topic 7	Topic 8	Topic 9	Topic 10	Topic 11	Topic 12	Topic 13	Topic 14
1	Java Fundamentals	0	0/0	3/3	17/17	14/14	-	-	-	-	-	-	-	-		
2	OOPS / Inheritance	0	2/2	1/1	2/2	2/2	0/0	10/10	-	-	-	-	-	-		
3	Abstraction / Packages / Exception Handling	0	1/1	0/0	4/4	1/1	5/5	-	-	-	-	-	-	-		
4	JUnit	0	0/0	1/1	2/2	1/1	0/0	-	-	-	-	-	-	-		
5	I/O Streams	0	0/0	3/3	1/1	-	-	-	-	-	-	-	-	-		
6	Wrapper Classes	0	4/4	-	-	-	-	-	-	-	-	-	-	-		
7	Collection	0	0/0	3/3	0/0	3/3	2/2	-	-	-	-	-	-	-		
8	RDBMS / SQL / JDBC	0	0/0	3/3	4/4	14/14	9/9	3/3	0/0	2/2	2/2	5/5	1/1	-		
9	Java 8 Features	0	4/4	2/2	2/2	3/3	3/3	3/3	8/8	3/3	6/6	2/2	3/3	-		
10	HTML	0	0/0	5/5	4/4	2/2	1/1	-	-	-	-	-	-	-		
11	JavaScript / CSS	0	0/0	4/4	10/10	6/6	5/5	8/8	4/4	9/9	2/2	3/3	5/5	5/5		
12	Servlets and JSP	0	1/1	2/2	1/1	3/3	3/3	3/3	-	-	-	-	-	-		
13	Hibernate	0	0/0	4/4	3/3	2/2	6/6	5/5	-	-	-	-	-	-		
14	Spring	0	0/0	2/2	5/5	4/4	3/3	-	-	-	-	-	-	-		

Fig.8: Report

4.1 Application:

- Online Pizza store
- User login and Admin Login
- Maintaining orders of customers
- Giving best online service

4.2 Problem Faced:

- How to manage database.
- Difficulty in setting conditions for escalating data from system.
- File-login date field value was not getting stored in the database.
- How to map complex types with queue variable.
- How can we fetch all fields with APS id and map the data at the same time?
- How to upload document of specific size and type.
- Database Field deletion and Integrity.

4.3 Limitations:

- This project is now created only for training purpose and confidential for non wiproites. specifically useful for employees of Wipro. Currently Outside Wipro network it can't be used.
- This implementation will be continued after interns join the company.
- Any change in the existing process flow during the development phase is not part of the scope.

4.4 Conclusion:

This document is primarily intended for Online pizza ordering system website users & Wipro implementation team. The website users will provide sign off on this SRS document.

REFERENCES:

- <https://outlook.office.com/mail/>
- <https://apc01.safelinks.protection.outlook.com/>
- https://teams.microsoft.com/#/xlsx/viewer/teamsSdk/https%3A%2F%2Fwipro365.sharepoint.com%2Fsites%2FJava_Prp%2FShared%20Documents%2FGeneral%2FTeam%208%20week%2016.xlsx?threadId=19%3AuF1dLEcutP2hwutol8gIeJyOhsFMeobCohsMmDWOZ2M1%40thread.tacv2&fileId=684fcce4-db2b-4e53-b44f-639bc2dcd759&ctx=openFilePreview&viewerAction=view
- <https://talentnext.wipro.com/PBLApp/index.jsp>

Appendices:

FPR - 1

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Mohit John		Department	Computer Science & Eng.	
Industry/Organization	Wipro Ltd.		Date/Duration	16 mar to 30 mar	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Topic – Java J2EE 1) Class and object 2) Getter and setter 3) Constructor 4) Access specifier 5) Exception handeling				
OVERALL GRADE (Any one)	✓ POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
Name of Industry Mentor	MR. SIRISH KUMAR				
Signature of Industry Mentor					

Receiving Date		Name of Faculty Mentor		Sign	
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FPR – 2

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Mohit John		Department	Computer Science & Eng.	
Industry/Organization	Wipro Ltd.		Date/Duration	1 April to 15 April	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work				✓	
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Topic – Java J2EE 1) Junit 2) I/O streams 3) Exception Handeling 4) Jsp 5) Java 8				
OVERALL GRADE (Any one)	✓ POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
Name of Industry Mentor	MR. SIRISH KUMAR				
Signature of Industry Mentor					

Receiving Date		Name of Faculty Mentor		Sign	
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FPR – 3

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Mohit John		Department	Computer Science & Eng.	
Industry/Organization	Wipro Ltd.		Date/Duration	15 April to 30 April	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Topic – Java J2EE 1) server 2) Java backend 3) Hibernate 4) Jsp 5) servlets				
OVERALL GRADE (Any one)	✓ POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
Name of Industry Mentor	MR. SIRISH KUMAR				
Signature of Industry Mentor					

Receiving Date		Name of Faculty Mentor		Sign	
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FPR – 4

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Mohit John		Department	Computer Science & Eng.	
Industry/Organization	Wipro Ltd.		Date/Duration	1 May to 15 May	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Topic – Java J2EE 1) Spring 2) Spring boot 3) collection 4) Project distribution 5) Online pizza ordering system				
OVERALL GRADE (Any one)	✓ POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
Name of Industry Mentor	MR. SIRISH KUMAR				
Signature of Industry Mentor					

Receiving Date		Name of Faculty Mentor		Sign	
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FPR – 5

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Mohit John		Department	Computer Science & Eng.	
Industry/Organization	Wipro Ltd.		Date/Duration	16 may to 27 may	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Topic – Java J2EE Mr. Mohit John working on given project with his teammates and will present the final project on 27th of may.				
OVERALL GRADE (Any one)	✓ POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
Name of Industry Mentor	MR. SIRISH KUMAR				
Signature of Industry Mentor					

Receiving Date		Name of Faculty Mentor		Sign	
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