

UNIVERSITY OF MORATUWA
Faculty of Engineering

Module No: CS3993

INDUSTRIAL TRAINING FIRST 06 WEEKLY REPORT

WSO2 Lanka (Pvt) Ltd.

From:02/01/2025 To 02/13/2025

Department of Computer Science and Engineering

Name : M.C Weerasinghe

Index : 210688C

Week 1 : 02/01/2025 - 09/01/2025

In the first week of our internship , we had our induction sessions , mainly to introduce us into the WSO2 culture, work habits and related processes.Key sessions that were conducted:

- Setting up work laptop and email
- WSO2 Policies
- Finance session
- GDPR(General Data Protection Regulation) session
- WSO2 Open Email Culture and Email Etiquette session
- Anti-harassment session
- HR session
- Sales session
- Cybersecurity session

Work related tasks were not assigned to us this week.

Week 2 : 09/01/2025 - 16/01/2025

In the second week, we were introduced to our team, Digital Transformation. We got to know the team and our assigned mentors.Later in the week we were assigned to our relevant projects.I was assigned to design the Employee App , an alternative application to the currently available People HR .

We also started following the Fast Track document to get a brief understanding of how different technologies used at WSO2 work.(The Fast track document is a pdf given to new interns by the internal apps team to get basic idea of how things work at WSO2)

Week 3 : 16/01/2025 - 23/01/2025

In the third week we continued to get an understanding of the following from the Fast Track document and with the help of our mentors.

- Got an understanding of the best practices of coding followed by WSO2, including things like naming conventions , spacing , proper documentation.
- Learned about API design best practices , including following the Open API standards. Learned how to distinguish action related APIs from the usual GET, POST APIs.
- Started learning a bit about graphql.
- Started learning about the following technologies used at WSO2
 - Ballerina - an open source, general purpose language built in house by WSO2.
 - Asgardeo - an open source identity management tool developed by WSO2.

- Choreo - an open source internal developer platform which allows users to easily design, develop and deploy applications, also made by WSO2

Week 4 : 23/01/2025 - 30/01/2025

In the fourth week I started making the API documentation for the Employee App based on the currently available APIs and proposed APIs. I used the knowledge I have gained through learning API design and best practice to document these APIs.

Later that week I had a meeting with my mentors to discuss the current status of the Employee App database and the improvements to be made. I was told to remove the prefixes in the tables , and remove certain unnecessary columns in certain tables. Also new columns were added to the Employee table. I demonstrated how the tables are related to each other by using Entity Relationship diagrams generated through MySQL. The team also went through the API documentation and gave suggestions for improvements.

I continued learning about Ballerina , Choreo and Asgardeo technologies , and also learned how to integrate these technologies with a React front end application. This was a simple book store app i made personally to get an understanding of how these integrations work together

I also went through GraphQL documentation , primarily because certain services of WSO2 like the Entity service use graphql APIs.

Week 5 : 30/01/2025 - 06/02/2025

In the fifth week, I was requested by my team lead to fix an issue in the Visitor Registration App , an application that was currently under development. I was able to fix the issue and get the app working , but the application had some other issues. I was told by my team lead to start working on the app from the beginning , as a fresh application.

I started learning about Redux and using Material UI components, since these tools were primarily used by WSO2 in their front-end applications.

I got access to the relevant database of the Visitor Registration App (old name) and i also got VPN access to access WSO2 services even from home.

Week 6 : 06/02/2025 - 13/02/2025

In the sixth week, I started working on the Visitor Access Control app from the beginning, using the available boilerplates for the backend and front end. I designed a simple UI containing

- A simple form made using Material UI components to get visitors information including things like scheduled date and a comments field.

- Designed a simple admin dashboard to get visitor details , with the ability to edit a visitors visit details
- Used redux to maintain global states and run the application smoothly.
- Used boiler plate code to display logged in user details including the ability to log out of the application.
- Modified access to these tabs (admin dashboard and form) based on the users role/group

I also developed APIs to support approval of an user upon requesting access to WSO2 premises. I also worked on integrating this functionality to my front end ui through a button , where an admin presses a button to approve an user.

Annex. D

SIX - WEEKLY CONTINUOUS ASSESSMENT REPORT

(Please Refer Section 9, page 5 of Training Guideline Book for details)

#	Report Details												
1	Report Number	1 <input checked="" type="checkbox"/>			2 <input type="checkbox"/>			3 <input type="checkbox"/>			4 <input type="checkbox"/>		
2	For the Duration	From	02	01	25	To	14	02	25				
#	Undergraduate's Details												
1	Name as per Register	Mr./Ms. <u>Worasinghe M.C</u>											
2	Index Number	210688C <u>210688C</u>											
3	Discipline	BM <input type="checkbox"/>	CH <input type="checkbox"/>	CE <input type="checkbox"/>	CS <input checked="" type="checkbox"/>	EE <input type="checkbox"/>	EN <input type="checkbox"/>	ER <input type="checkbox"/>	ME <input type="checkbox"/>	MT <input type="checkbox"/>	TL <input type="checkbox"/>	TT <input type="checkbox"/>	FI <input type="checkbox"/>
4	Contact Phone Number	<u>+94762545500</u>											
5	Email	<u>mineth.21@cse.mrl.ac.lk</u>											
6	Personal Address During	<u>142/8, Pungnananda Mw, Nallurawa, Panadura</u>											
#	Training Provider Details												
1	Training Provider's Name	<u>WS02 Lanka (Pvt) Ltd</u>											
2	Address of Corporate Office	<u>No.105, Bandhaloka Mawatha, Colombo 00400, Sri Lanka</u>											
3	Address of Worksite	<u>No.105, Bandhaloka Mawatha, Colombo 00400, Sri Lanka</u>											
4	Nearest City to Worksite	<u>Colombo</u>											
5	Name of Supervisor	<u>Chanuka Disranayake</u>											
6	Supervisor Position	<u>Senior Technical Lead</u>											
7	Supervisor Phone No.	<u>071 336 3596</u>											
8	Email	<u>chanukh@ws02.com</u>											
Annex D2 - Important Note!													
A summary of undergraduate's work experience during the considered six (06) weeks period to be uploaded as Annex D2. Highlight any shortcomings, problems that the undergraduate experienced, if there were any, for the purpose of improving.													
Finally, make sure to attach completed assessment by the Supervisor - Annex D1 (see overleaf).													
Endorsement by the Undergraduate													
Signature of Undergraduate		<u>[Signature]</u>					Date		<u>25/02/2025</u>				

Revised & published in November 2024

Annex. D1 (contd.)

Supervisor's Assessment on Undergraduate						
[rate on a scale from 1 (Disagree) to 5 (Agree)]						
A	Behavioral:	1	2	3	4	5
1	Thinks independently	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Takes initiatives	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Reliable	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Organized and manages time well	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Results oriented	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Ability to learn from all levels of workers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	Adaptability to different environments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	Open to different opinions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9	Demonstrate good ethics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10	Accept constructive criticism	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11	Ready to seek assistance when necessary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12	Communicates well in all formats	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
B	Technical:	1	2	3	4	5
1	Knows fundamentals related to work assigned	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Able to apply fundamentals to practice	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Able to analyse and troubleshoot problems	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Engages modern tools and techniques	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	Develops related hands on skills	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Concerned with quality	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Performs work in a safe manner	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	Develops skills in planning & implementation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	Understands costs & benefits relationships	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10	Understands business operations in local & global context	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Any Other Remark:						
C	Need to have a clear idea of what you are doing and deliver on time.					
D	No. of Days of leave during 6-week period:	Authorized		Unauthorized		
E	Endorsement by the Supervisor:					
1	Name of the Supervisor	Chanuka Disanayake		Official Stamp WS02 Lanka (Pvt) Ltd.		
2	Position	Senior Technical Lead				
3	Signature	Ggk				
4	Date	2025/02/25				

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