

2026

SUMMER INTERNSHIP REPORT · MAY-JULY 2025

Internship Report

Web Development Intern at Northwind Software Labs

SUBMITTED BY

Rahul Verma

Roll No. 22CS118

ORGANISATION

Northwind Software Labs, Bengaluru

FACULTY MENTOR

Dr. Shalini Rao

INTERNSHIP CERTIFICATE

This is to certify that Rahul Verma, a student of Bachelor Of Technology (Computer Science & Engineering) at Your Institute of Technology, Bhopal, has successfully completed an internship with Northwind Software Labs, Bengaluru, as Web Development Intern from 2 June 2025 to 25 July 2025.

During the internship the student worked with our Product Engineering team and contributed to appointment booking screens. We found the student sincere, punctual and eager to learn, and we wish them every success.

(Replace this page with the certificate issued by your organisation, if one was provided.)

Mr. Karthik Iyer

Senior Software Engineer, Northwind Software
Labs

HR Department

Northwind Software Labs

Declaration

I hereby declare that this internship report, submitted to the Department of Computer Science & Engineering, Your Institute of Technology, Bhopal, is a record of the work I carried out at Northwind Software Labs from 2 June 2025 to 25 July 2025 under the supervision of Mr. Karthik Iyer and the guidance of Dr. Shalini Rao. The report has not been submitted elsewhere for any degree or diploma.

Place: _____ Date: _____

Rahul Verma

Acknowledgement

I am grateful to Northwind Software Labs for giving me the opportunity to work as Web Development Intern and to experience a professional environment first-hand.

I sincerely thank my industry mentor, Mr. Karthik Iyer, for patient guidance, regular feedback and for trusting me with real work. I also thank the members of the Product Engineering team, who welcomed me and answered my questions.

I am thankful to Dr. Shalini Rao, my faculty mentor, and to the Head of the Department of Computer Science & Engineering for their support and encouragement.

Finally, I thank my family and friends for their constant motivation.

Executive Summary

This report describes my 8-week internship at Northwind Software Labs, a software company that builds web and mobile products for small and medium businesses. During the internship I worked as Web Development Intern in the Product Engineering team. I contributed to a customer-facing appointment booking web app, learning React, REST APIs, Git workflows and agile ceremonies. I built two features end to end, wrote unit tests and fixed reported bugs.

Organisation	Northwind Software Labs, Bengaluru
Domain	Software products and services
Role	Web Development Intern
Department	Product Engineering
Duration	2 June 2025 – 25 July 2025 (8 weeks)
Industry mentor	Mr. Karthik Iyer, Senior Software Engineer
Tools used	React, Node.js, Git, Jira, Figma

Table of Contents

01 Company Profile.....	7
About the Organisation.....	7
Vision and Mission.....	7
Products and Services.....	7
Organisational Structure.....	7
02 Internship Overview.....	8
Objectives of the Internship.....	8
Role and Responsibilities.....	8
Tools and Technologies.....	8
03 Weekly Work Log.....	9
04 Projects Undertaken.....	10
Project 1: Appointment booking screens.....	10
Project 2: Unit test coverage.....	10
05 Skills and Learning Outcomes.....	11
Challenges Faced.....	11
06 Conclusion.....	12
07 Appendix: Attendance and Evaluation.....	13

01 Company Profile

About the Organisation

Northwind Software Labs is a mid-sized software company that designs, builds and maintains web and mobile applications for small and medium businesses in retail, education and healthcare. The company follows agile practices, with small cross-functional teams working in two-week sprints. It has a strong culture of code reviews, automated testing and documentation.

Vision and Mission

Vision

To make well-crafted software affordable for every growing business.

Mission

To deliver reliable products quickly by combining good engineering practice with close collaboration with clients.

Products and Services

- Custom web application development
- Mobile apps for Android and iOS
- Cloud hosting and maintenance
- UI/UX design and product consulting

Organisational Structure

The organisation is structured into functional teams, each led by a manager who reports to the leadership team. Interns are attached to one team and assigned an industry mentor.

Department	Main responsibilities
Product Engineering	Designs and builds web and mobile applications
Quality Assurance	Plans tests and automates regression testing
Design	User research, wireframes and visual design
DevOps	Deployment pipelines, hosting and monitoring
Client Success	Requirements, delivery and support

02 Internship Overview

Objectives of the Internship

1. Understand how a professional software team plans and delivers work.
2. Gain hands-on experience with a modern front-end framework and REST APIs.
3. Learn version control, code review and testing practices.
4. Build at least one production feature from design to deployment.

Role and Responsibilities

- Implementing user interface components from design mock-ups
- Integrating front-end screens with back-end APIs
- Writing unit tests and fixing bugs
- Participating in daily stand-ups and sprint reviews

Tools and Technologies

Tool / technology	How it was used
React	Building reusable UI components
Node.js / Express	Understanding and testing API endpoints
Git and pull requests	Version control and code reviews
Jira	Tracking tasks in sprints
Figma	Reading design specifications

03 Weekly Work Log

The table below summarises the work done in each week of the internship.

Week	Dates	Tasks performed	Key learning
1	2–6 Jun	Onboarding, environment set-up, codebase walkthrough	How the project is structured and how branches are managed
2	9–13 Jun	React refresher; built a sample component library page	Component props, state and hooks
3	16–20 Jun	Implemented the appointment list screen	Fetching and displaying API data with loading states
4	23–27 Jun	Added filters and search to the list	Debouncing input and handling empty results
5	30 Jun–4 Jul	Built the booking form with validation	Form validation and accessible error messages
6	7–11 Jul	Wrote unit tests and fixed review comments	Testing components and writing readable code
7	14–18 Jul	Bug fixes from QA; performance tweaks	Reading bug reports and reproducing issues
8	21–25 Jul	Documentation, demo to the team, handover	Presenting work and writing handover notes

04 Projects Undertaken

Project 1: Appointment booking screens

Problem: Clinic staff needed a faster way to view and filter appointments.

Approach: Built list, filter and booking components in React connected to existing APIs, following the design system.

Outcome: Feature released to staging and approved in the sprint review.

Figure placeholder — screenshot, drawing or photo of your work

Figure 1: Appointment booking screens

Project 2: Unit test coverage

Problem: Several older components had no tests.

Approach: Wrote tests for six components and added them to the CI pipeline.

Outcome: Test coverage for the module improved and two hidden bugs were found.

Figure placeholder — screenshot, drawing or photo of your work

Figure 2: Unit test coverage

05 Skills and Learning Outcomes

Skill area	What I learned
Technical	React components, hooks, REST integration, Git workflows, unit testing
Process	Agile sprints, stand-ups, code reviews, estimating tasks
Professional	Asking clear questions, writing updates, presenting a demo

Challenges Faced

- Understanding a large existing codebase in the first two weeks
- Estimating how long tasks would take
- Handling review comments without getting discouraged

06 Conclusion

The internship gave me practical experience of building software in a real team. I learned not only new tools but also how to communicate progress, accept feedback and take ownership of a feature. These lessons will shape my final-year project and my career choices.

Suggestions for future interns

Set up the development environment before day one if possible, keep a daily log, and ask questions early rather than staying stuck for hours.

07 Appendix: Attendance and Evaluation

Week	Days present	Mentor remarks	Mentor sign
1	5 / 5		
2	5 / 5		
3	5 / 5		
4	5 / 5		
5	5 / 5		
6	5 / 5		
7	5 / 5		
8	5 / 5		

Mentor evaluation (to be filled by the organisation)

Criterion	Excellent	Good	Average	Needs work
Technical skills				
Communication				
Punctuality				
Teamwork				
Initiative				