**Academia International College**

**Tribhuvan University**

**Institute of Science and Technology**



**Internship Proposal**

**On**

**“React Js”**

**At**

**“Amnil Technologies Pvt. Ltd.”**

Institute of Science and Technology, Tribhuvan University

*In Partial Fulfilment of the Requirement for the Bachelor Degree in Computer Science And Information Technology*

*(BSc CSIT) 8th Semester*

**Submitted By:**

Rahul Adhikari (26502/077)

**Table of Contents**

[1. Introduction 1](#_Toc189427230)

[2. Problem Statement 2](#_Toc189427231)

[.3. Objectives 2](#_Toc189427232)

[4. Description of Internship Project 3](#_Toc189427233)

[5. Internship Plan 4](#_Toc189427234)

[6. Expected Outcome of Internship Activities 5](#_Toc189427235)

# 1. Introduction

Internship is crucial to fill in the gap between academic learning and the real-world industry experience. It allows us to put my theoretical knowledge to use in a real work environment and also get practical experience in problem-solving and software development. I have started my internship at Amnil Technologies where I will be doing internship in Web Development using React.JS Libraries.

During my internship, I contributed to the development of a CV Manager web application. The primary goal of this project is to streamline and simplify the process of managing candidate CVs for HR professionals and recruitment teams within the company. It serves as a centralized system for storing, organizing, and reviewing resumes efficiently.

This proposal presents the scope of my internship work with details on the problem statement, objective, internship work description, internship plan and the expected outcomes.

Table 1.1: Company Details

|  |  |
| --- | --- |
| **Company Name** | **Wisdom Technologies** |
| Contact No | [+977 1 5431784](tel:+977015431784), [+977 1 5433784](tel:+977015433784) |
| Website | https://www.amniltech.com |

# 2. Problem Statement

Hiring teams and HR departments often struggle with organizing, reviewing, and tracking a large volume of candidate CVs during the recruitment process. Traditional methods such as email attachments, shared drives, and spreadsheets are inefficient, error-prone, and lack centralized control. This leads to delays in shortlisting candidates, poor communication among interviewers, and difficulty in maintaining consistent hiring workflows.

There is a need for a centralized, efficient, and user-friendly platform that allows HR teams to manage candidate profiles, assign assessments, track interview progress, and access resumes quickly all in one place.

# .3. Objectives

The main objective of this project is to efficiently handle the accommodation management process.

* To provide a single platform where HR teams can upload, store, and manage candidate CVs efficiently.
* To enable easy tracking of candidate status through different hiring stages such as shortlisting, interviews, hiring, or rejection.
* To allow HR or interviewers to assign technical or behavioural assessments to candidates based on role, technology, or level.
* To categorize candidates by technology, experience level, and status for quick searching and filtering.
* To ensure that even non-technical users in the HR team can navigate and operate the platform with ease.

# 4. Description of Internship Project

During my 3-month internship at Amnil Technology, I contributed to the development of a web-based application called CV Manager. This project is designed to streamline and digitize the hiring process for HR departments and recruitment teams. The core goal of the system is to simplify the management of candidate CVs and enable a more organized workflow for screening, shortlisting, assigning assessments, and tracking hiring progress.

As an intern, I worked on frontend of the application, gaining hands-on experience with tools such as React, Redux Toolkit, Ant Design. I was responsible for implementing key modules like candidate management, assignment tracking, and assessment assignment features.

The application provides a user-friendly interface for HR personnel to:

* Upload and manage candidate profiles
* Filter candidates based on technology, level, and hiring stage
* Assign technical or behavioural assessments
* Track progress and status of each candidate in real-time
* Send offer to the candidates

This project not only enhanced my technical skills in modern web development but also gave me practical exposure to working in a collaborative, real-world development environment.

# 5. Internship Plan

The internship will be following a structured plan in order to build the system.

1. Getting Acquainted with the Work Environment:

The first part of the internship will entail getting to know the workplace and learning about the organization's procedures, regulations, and structure. In order to coordinate schedules and expectations, this step will also involve conversations with the supervisor. To guarantee a clear grasp of goals and team cooperation, an introduction to the project's requirements, scope, and objectives will also be held.

1. Requirement Gathering and Research:

During this stage, information about industry best practices for research and development procedures is gathered. It will consist of:

* Researching references and industry standards.
* Determining the fundamental needs and features of the system.
* Backend development should be in line with business logic and workflows.

1. Database Model Desing

An organized database is essential to the system's effective operation. This stage will consist of:

* Creating a database schema that is optimized for the accommodation system.
* Ensuring indexing and normalization to boost performance.
* Putting in place connections between various system elements.

1. Development

The main goal of this phase is to use Node.js to create the system's backend. Important jobs consist of:

* Establishing a backend framework that is scalable.
* Creating CRUD operations API endpoints.
* Putting permission and authentication systems into place.
* Ensuring data safety through best practices in security.
* Adding third parties APIS.

1. Testing

To guarantee functionality and dependability, testing is an essential component of software development. This stage will entail:

* Composing integration and unit tests.
* Use Postman and other similar tools to test APIs.
* Debugging and resolving any problems found.

1. Maintenance

Maintenance is necessary after development to guarantee the system's continued functionality and effectiveness. This stage consists of:

* Query optimization and server performance monitoring.
* Addressing feature upgrades and bug repairs.
* Putting in place error-handling and tracking systems to ensure seamless operations.

# Expected Outcome of Internship Activities

With the guidance from our supervisor and team collaboration intern will have a thorough understanding of Node.js backend development and how it's used to create scalable systems after the internship is over. They will have gained practical expertise in database design and management, authentication, and secure API development, and they will have successfully contributed to the deployment of the Accommodation Management System. The intern will also have learned the fundamentals of performance optimization, security best practices, and backend system maintenance. Their proficiency as a backend developer in the lodging sector will be strengthened by this experience, setting them up for future career options.