

InternHub

Internship & Scholarship Tracker for Diploma Students

Main Project Report

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Diploma / Computer Science / Information Technology

Submitted by

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Declaration

I hereby declare that this project titled “**InternHub: Internship & Scholarship Tracker for Diploma Students**” is my original work and has not been submitted previously for any degree or diploma.

Signature:

Date:

Abstract

InternHub is a web-based platform designed to assist diploma students in discovering, tracking, and applying for internships and scholarships efficiently. The system integrates artificial intelligence (AI) techniques to recommend relevant opportunities based on student profiles, including branch, skills, and academic year.

To ensure real-time availability of opportunities, InternHub automatically collects internship and scholarship information using web scraping techniques from publicly available and trusted sources. The scraped data is filtered to include only diploma-eligible opportunities and stored in a centralized database.

The platform features a role-based system with separate access for students and administrators. Students can manage profiles, receive AI-based recommendations, and track applications, while administrators manage users and opportunities. InternHub reduces manual searching effort and improves career accessibility for diploma students.

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Chapter 1

Introduction

Diploma students often face difficulties in finding suitable internships and scholarships due to scattered information across multiple platforms. InternHub addresses this problem by providing a centralized system that automatically gathers opportunities and intelligently recommends them based on individual student profiles.

Chapter 2

Objectives

- Provide diploma students with a centralized internship and scholarship portal.
- Automatically collect opportunities using web scraping.
- Use AI-based recommendation techniques.
- Reduce manual searching effort.
- Improve career awareness among diploma students.

Chapter 3

System Architecture

The InternHub system consists of:

- Frontend: User interface for students and admins.
- Backend: API and business logic.
- Database: Stores users and opportunities.
- AI Engine: Recommends diploma-specific opportunities.
- Web Scraping Module: Collects data automatically.

Chapter 4

How the System Works

1. User registers and selects qualification as Diploma.
2. Profile details are stored in the database.
3. Web scraping module collects opportunities.
4. Diploma-eligible opportunities are filtered.
5. AI engine matches opportunities with user profile.
6. Recommended results are displayed on dashboard.

Chapter 5

Modules and Page-wise Workflow

5.1 Authentication Pages

5.1.1 Login Page

Allows diploma students and admins to securely access the system. Role-based redirection ensures correct access.

5.1.2 Registration Page

Creates a new diploma student account and initializes profile data.

5.1.3 Logout Page

Ends the session and prevents unauthorized access.

5.2 User Pages

5.2.1 Dashboard

Displays AI-recommended internships and scholarships, summary cards, and deadlines.

5.2.2 Profile Page

Stores academic and skill data used by AI for recommendations.

5.2.3 Opportunities Page

Shows automatically scraped and manually added diploma opportunities.

5.3 Admin Pages

5.3.1 Admin Dashboard

Provides system statistics and data overview.

5.3.2 Manage Opportunities

Allows admins to edit, delete, or add opportunities.

5.3.3 Manage Users

Enables admin to manage student accounts. [\[hidelinks\]hyperref](#)

Chapter 6

AI Recommendation System

The AI system recommends opportunities using profile-based matching.

6.1 Input

- Diploma qualification
- Branch
- Skills
- Academic year

6.2 Matching Logic

- Filter diploma-eligible opportunities
- Match skills and branch
- Score and rank results

6.3 Output

Top-ranked internships and scholarships are displayed as AI recommendations.

Chapter 7

Web Scraping Module

7.1 Purpose

Automatically collect diploma-specific internship and scholarship data.

7.2 Workflow

1. Access public opportunity websites
2. Extract relevant data
3. Check diploma eligibility
4. Store in database

7.3 Filtering Criteria

Only opportunities mentioning Diploma, Polytechnic, or ITI are stored.

Chapter 8

Database Design

Table	Description
Users	Stores student and admin details
Opportunities	Stores internship and scholarship data
Applications	Tracks applied opportunities

Chapter 9

Advantages

- Diploma-focused recommendations
- Automatic data updates
- Reduced manual effort
- Improved career accessibility

Chapter 10

Future Enhancements

- Resume upload and reuse
- Notification system
- Advanced NLP-based AI
- Mobile application

Chapter 11

Conclusion

InternHub provides an intelligent, automated solution for diploma students to discover internships and scholarships. By integrating AI recommendations and web scraping, the system ensures up-to-date opportunities and personalized career guidance.

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