

InternHub: Internship & Scholarship Tracker for College Students

Main Project Report

Submitted in partial fulfillment of the requirements for the award of the
degree of

Bachelor of Computer Science / IT

Submitted by

NIYAS SUMESH UMMAR

Department of Computer Science / IT
NIYAS SUMESH UMMAR

January 13, 2026

Declaration

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

Contents

1	Introduction	4
2	Objectives	5
3	System Architecture	6
4	How the App Works	7
5	Modules / Components	8
6	Database Design	9
7	Implementation	10
8	AI Suggestions	11
9	Results and Discussion	12
10	Applications	13
11	Advantages	14
12	Future Enhancements	15
13	Conclusion	16

Abstract

In today's highly competitive academic and professional environment, college students often face challenges in finding relevant internships and scholarships, managing multiple application deadlines, and organizing essential documents. **InternHub** is a comprehensive web-based platform designed to address these challenges by providing a centralized system for tracking opportunities, managing applications, storing documents, and receiving personalized AI-powered recommendations.

The platform enables students to create detailed profiles including their skills, interests, branch, and academic year. It automatically fetches internship and scholarship opportunities from various websites or APIs, while also allowing users to manually add opportunities. Users can efficiently track the status of their applications, update progress, add notes, and link important documents such as resumes, cover letters, and transcripts. An intelligent suggestion engine analyzes user profiles in combination with opportunity descriptions to recommend the most relevant opportunities, ensuring students do not miss critical chances for career growth.

InternHub features a dynamic dashboard that provides a visual summary of applications, upcoming deadlines, and AI-suggested opportunities. Notifications and reminders help students stay organized and meet deadlines effectively. Optional advanced features include calendar integration, real-time scraping of multiple sources, and a chatbot assistant to guide users through the opportunity selection process.

The system is implemented using **React.js** for the frontend, **Django/Flask** for the backend, and **MongoDB/PostgreSQL** for database management. Python-based AI modules and web scraping scripts enhance the platform's ability to provide intelligent recommendations and up-to-date opportunity listings.

By consolidating opportunity tracking, application management, document organization, and personalized AI suggestions into a single platform, InternHub empowers students to make informed decisions, improve their application success rate, and maximize their academic and professional potential.

Chapter 1

Introduction

College students often struggle to manage multiple internship and scholarship opportunities, keep track of deadlines, and organize application documents. InternHub addresses this problem by providing a centralized platform to manage opportunities, track applications, store documents, and receive AI-based suggestions tailored to individual profiles. This project aims to improve the efficiency and success rate of students in securing relevant career opportunities.

Chapter 2

Objectives

- Provide a centralized system to track internships and scholarships.
- Allow students to manage deadlines and application statuses.
- Enable document upload, storage, and reuse for multiple applications.
- Provide AI-based personalized suggestions for relevant opportunities.
- Send notifications and reminders for upcoming deadlines.

Chapter 3

System Architecture

The system consists of a frontend (React.js) connected to a backend (Django/Flask) and a database (MongoDB/PostgreSQL). Additional modules include:

- AI Suggestion Engine for personalized recommendations.
- Web scraping/API module for automatic opportunity fetching.
- Notification module for in-app and email reminders.
- Document management module for uploading and linking files.

Chapter 4

How the App Works

InternHub is designed to help students manage internships and scholarships efficiently. The app works through the following steps:

1. **User Registration and Profile Creation:** The student creates an account using email and sets up a profile with details like name, branch, year, skills, and interests.
2. **Opportunity Fetching:** The system automatically fetches opportunities from preloaded data or external websites/APIs. Students can also manually add new opportunities.
3. **Dashboard Overview:** All fetched and saved opportunities are displayed on a visual dashboard. This includes application status, upcoming deadlines, and AI-based top suggestions tailored to the user's profile.
4. **Application Tracking:** Students can mark the status of each opportunity (Not Applied / Applied / Interview / Accepted / Rejected), add notes, and link documents like resumes, cover letters, or transcripts.
5. **Document Management:** Users upload required documents once and reuse them across multiple applications. The system ensures that all documents are stored securely and can be downloaded or updated easily.
6. **Notifications and Reminders:** The app sends reminders for approaching deadlines via in-app notifications or email to ensure students do not miss important opportunities.
7. **AI-Based Suggestions:** InternHub analyzes the user's skills and interests, compares them with opportunity keywords, and ranks opportunities by relevance. The top suggestions are displayed on the dashboard.
8. **Optional Features:** Additional features like calendar integration, real-time scraping, or a chatbot assistant further improve usability and help students discover new opportunities efficiently.

Summary of Workflow:

User Profile Data → Opportunity Fetching → Dashboard Display → Application Tracking → Document Linking → Notifications → AI Suggestions

Chapter 5

Modules / Components

User Authentication and Profile

Allows users to register, login, and create profiles with academic details, skills, and interests.

Opportunity Management

Enables fetching opportunities automatically, manual addition, and CRUD operations on opportunities.

Application Tracker

Tracks the status of applications, allows notes, and links documents to opportunities.

Dashboard

Displays visual summaries, upcoming deadlines, and top AI-suggested opportunities.

Notifications

Sends reminders for deadlines via in-app messages or email.

Document Management

Supports upload, linking, and reuse of resumes, cover letters, and transcripts.

Chapter 6

Database Design

- **Users:** user_id, name, email, password, branch, year, skills, interests
- **Opportunities:** opp_id, title, organization, type, eligibility, location, deadline, documents_required, source, date_added
- **Applications:** app_id, user_id, opp_id, status, notes, date_applied
- **Documents:** doc_id, user_id, filename, file_type, linked_opp_ids, upload_date

Chapter 7

Implementation

1. Project setup: Backend, frontend, database connection.
2. User authentication and profile creation.
3. Opportunity management with preloaded data and web scraping/API integration.
4. Application tracker for status updates, notes, and document linking.
5. Dashboard with visual analytics and AI suggestions.
6. Notification system for deadlines.
7. Document upload, linking, and reuse functionality.
8. Testing and deployment on Heroku/Netlify/Firebase.

Chapter 8

AI Suggestions

Opportunities are ranked by matching user skills/interests with opportunity keywords. Advanced AI uses NLP-based semantic matching (TF-IDF, cosine similarity) to improve recommendation accuracy.

Chapter 9

Results and Discussion

- Students can track opportunities and deadlines efficiently.
- Application status and notes are managed in a centralized system.
- Documents can be uploaded once and reused for multiple applications.
- AI-based suggestions enhance the chance of applying to relevant opportunities.
- Notifications ensure deadlines are not missed.

Chapter 10

Applications

- College students seeking internships and scholarships.
- Career guidance and placement cells.
- Academic portals integrating opportunity tracking.

Chapter 11

Advantages

- Centralized opportunity tracking system.
- Personalized AI suggestions based on user profile.
- Easy document management and reuse.
- Reminders for deadlines improve application efficiency.

Chapter 12

Future Enhancements

- Mobile version using React Native.
- Calendar integration for deadlines.
- Real-time scraping from multiple websites.
- Chatbot for opportunity guidance.
- Cloud-based dashboard and analytics.

Chapter 13

Conclusion

InternHub provides an organized, AI-driven solution for managing internships and scholarships. By consolidating opportunity tracking, application management, document storage, and personalized recommendations, the system empowers students to maximize their career opportunities while reducing the risk of missing deadlines.

Bibliography

1. React.js Documentation, <https://reactjs.org/>
2. Django Documentation, <https://www.djangoproject.com/>
3. Flask Documentation, <https://flask.palletsprojects.com/>
4. MongoDB Documentation, <https://www.mongodb.com/>
5. Python NLP Libraries: scikit-learn, spaCy
6. BeautifulSoup Documentation, <https://www.crummy.com/software/BeautifulSoup/>