جـــامـــعـــة الشــــارقــة
UNIVERSITY OF SHARJAH

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Senior Project Progressed Report 1

Web-Based Student Internship and Placement Tracking System

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1. Introduction

This report shows the first steps we've taken on our final project, which is InterTrack a Student Internship and Placement Tracking System. The project improves on what was set in our junior project, as we developed the concept, identified needs, and created a prototype. During this phase, we focused on improving system features, adding basic functionalities, and ensuring that the system meets the real-world needs of students, supervisors, and administrators.

2. System Overview:

InterTrack is a web-based system that allows:

- o **Students:** Register, apply for internships, and get updates.
- o **Supervisors:** Monitor student progress and approve submissions.
- o **Employer:** Keep track of internship postings, application reviews, and feedback requests.
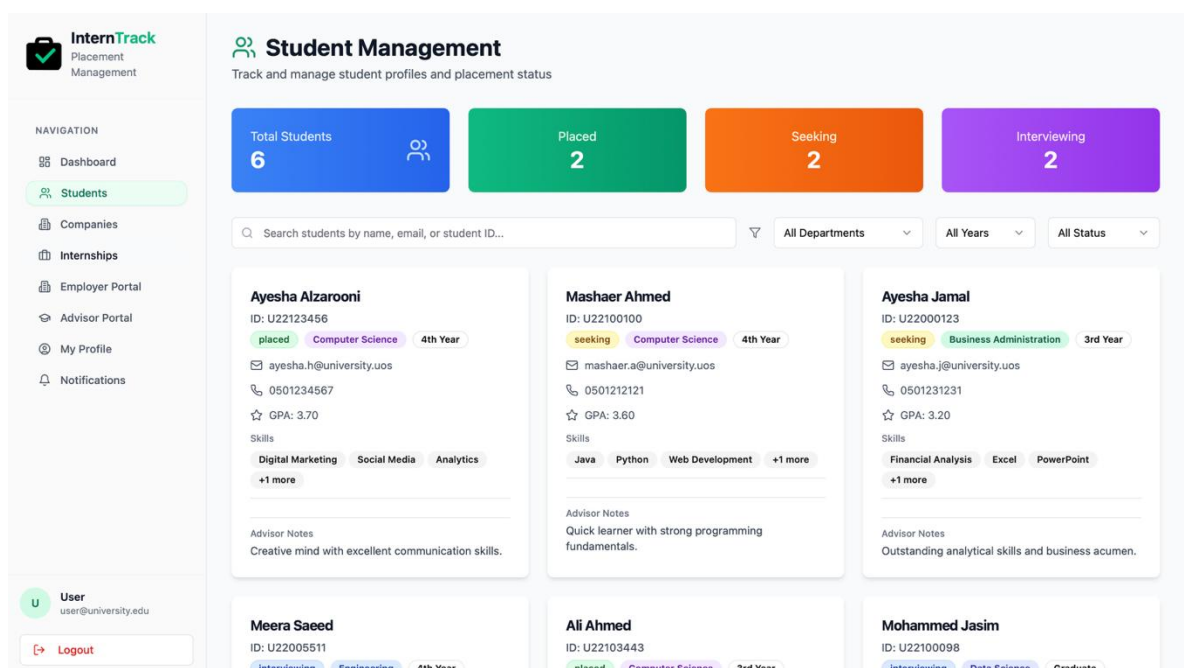
3. System Interface

3.1. Dashboard:

The dashboard provides a summary of partner companies, active internships, pending applications, and recent activities.
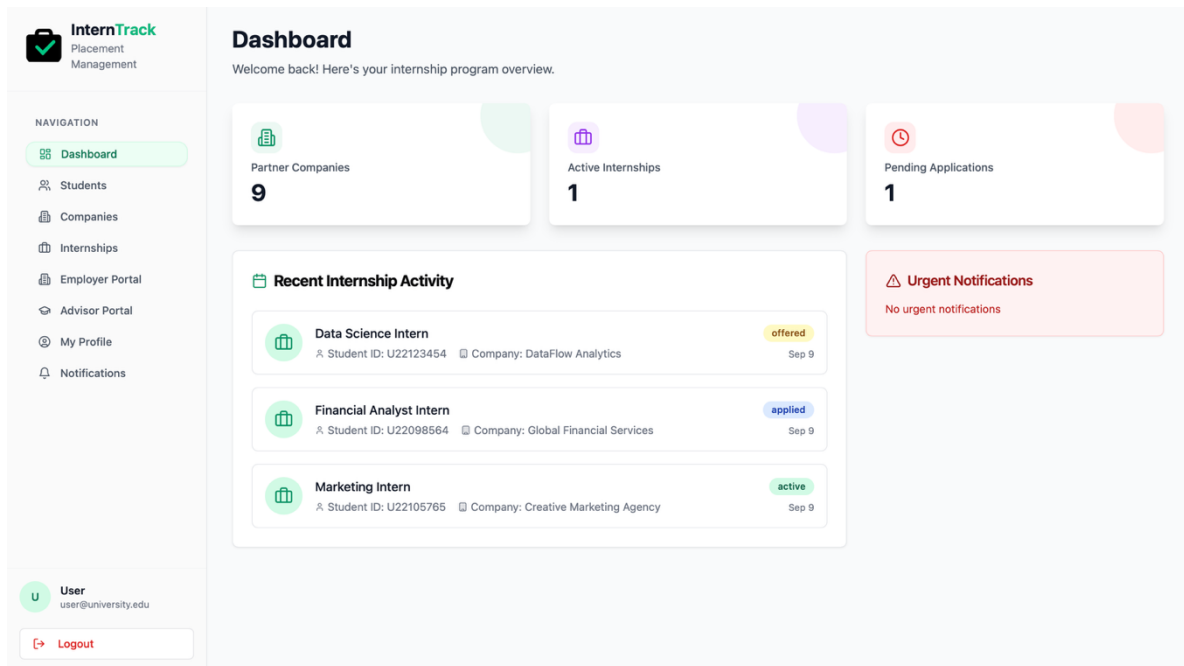
3.2. Student Management:

The student management page provides tracking of student profiles, academic records, and internship status such as placed, seeking, or interviewing.

3.3. Company Management:

The company management page provides thorough information on partner organizations, available internship positions, and contact information, allowing students to easily connect with relevant opportunities.

3.4. Academic Advisor:

This dashboard allows advisors to monitor students, review active internships, and approve or reject placement requests. It provides a quick overview of the student's status and pending actions.

3.5. Notification Center:

This interface shows all system alerts to users, organized by type (unread, urgent, action required). Users may easily filter, search, and manage alerts. Administrators can also create new notifications.

3.6. My Profile:

Students use this page to enter and edit personal information, academic information, skills, CVs, and placement status. It keeps their data current and visible to advisors and employers.

4. Work Completed So Far

- **Requirement Analysis:** We went over the requirements collected during the junior project and improved them with more detailed user stories and use cases.

- **Frontend Development:** The user interface was updated to improve usability and responsiveness, ensuring cross-device functionality.

- **Backend Development:** The basic backend logic was created, with a focus on student registration, internship applications, and supervisor assignment.

- **Testing (Early Phase):** We carried out initial unit testing on important modules in order to ensure basic stability.

5. Individual Contributions (Who Did What)

- **Ayesha Alzarooni:**

  o Improved the user interface design from the junior project prototype.
  o Created front-end pages for student dashboards and notifications.
  o Coordinated integration between frontend and backend.

- **Mashaer Al Ali:**

  o Worked on backend development for authentication and student internship application workflows.
  o Wonking on database design and management.

- **Aisha Alshehi:**

  o Designed the supervisor allocation module.
  o Ensured data relationships between students, companies, and supervisors were appropriately organized.

- **Meera Alketbi:**

  o Updated requirements analysis and documentation.
  o Supported early module testing and debugging.

6. ER Diagram
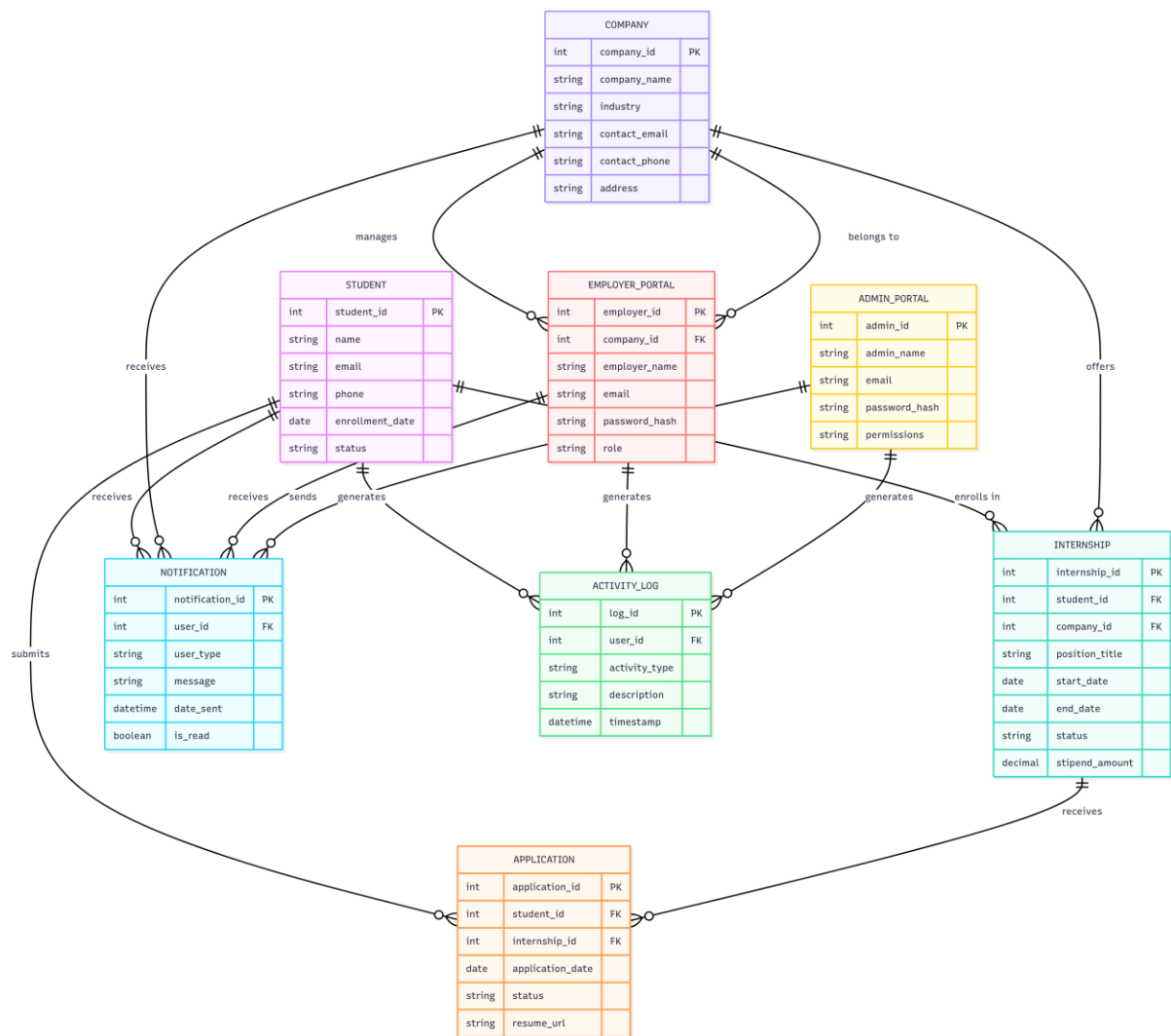
This diagram shows the internship management system's database schema.

The system has six main entities:

1. STUDENT
2. COMPANY
3. INTERNSHIP
4. APPLICATION
5. EMPLOYER_PORTAL
6. ADMIN_PORTAL

The relationships allow students to apply for internships listed by companies, while employers and advisors can manage the system through their portal. All activities are tracked for verification purposes.

7. Reflection

Working together has been both enjoyable and demanding. Our group communicates and collaborates well. Each member has unique strengths, allowing us to properly allocate tasks. Some focused on technical coding, while others contributed more to design and documentation. However, we had regular issues coordinating our work schedules, particularly when deadlines for other courses conflicted with project milestones.

- **Challenges Faced:**

    o **Integration Issues:** At first, our frontend and backend were not aligning correctly. This created errors in login and student dashboard functions. To solve this, we held joint coding sessions where frontend and backend developers worked together to troubleshoot in real time.

    o **Time Management:** Balancing this project with our other courses was difficult. We resolved this by setting clear weekly goals and smaller milestones to keep steady progress.

    o **Integration Issues:** We found problems while merging code. We used version management tools such as GitHub to improve collaboration.

- **Lessons Learned and Future Progress:**

    We discovered that effective communication is just as crucial as technical work. Based on these experiences, we plan to:

    o Set small, achievable milestones to reduce last-minute stress.
    o Increase integration testing frequency to identify mistakes faster.
    o Maintain documentation to track changes and keep all members up to date.

Through this reflection, we realize that technical abilities alone are insufficient; teamwork, adaptability, and planning are all equally important to the success of our project.