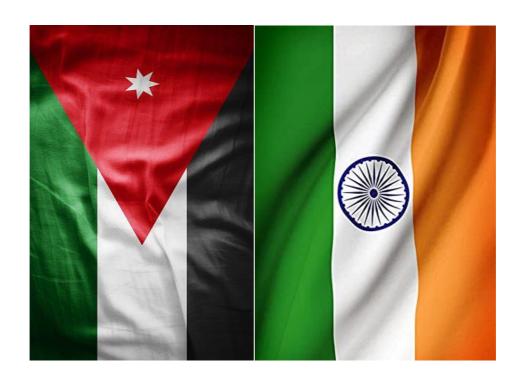
LINK-TERN



THE PROJECT OF KHALD OWEIS AND LINA M. SABBAHIN INSTUCTOR: MS. YOGITA CHITTORIA

Contents

1.0	Introduction	2
	Scope	
	Used Technologies	
	Overview	
5.0	Product Function	5
6.0	User Characteristics	5
7.0	Diagrams	6
7.1	Entity Relationship Diagram (ERD)	6
7.2	Dataflow Diagram (DFD)	7

1.0 Introduction

Link-tern was developed to cater for the need of efficient tracking of the internship programs that students undergo. As the name implies, Link-tern provides a link between the intern's instructor in the educational institution and their supervisor in the entity they are training in. Therefore, track their progress and ensure that they are achieving the desired objectives.

Link-tern eliminates the need of paperwork for is a web-based software. It also provides its users with the flexibility of tracking students' internship even outside the boarders of the country as all the work is done over the Internet.

2.0 Scope

Companies, Schools, Universities and hiring agencies can use this web-application.

3.0 Used Technologies

- Back-end:
 - Java (Spring Framework, JSP)
 - o MySQL (for the database)
- Front-end:
 - o HTML
 - o CSS
 - o Bootstrap
 - o JQUERY (Java Script)

4.0 Overview

The key features of Link-tern are:

- **Accessible**: Link-tern's users can access it anytime, from anywhere around the globe over the web.
- **Searchable**: Link-tern allows users to search for students therefore access their work and profile.
- **Measurable**: Link-tern provides a timeline for each student that includes all the assigned tasks, their deadlines and their status (Approved/Rejected).
- **Live Profiling**: Provides the educational institutes and the entity at which the internship is with a profile for each student. The profile is derived from the data-base and includes real-time information on the student's progress and performance.
- **Provides Feedback**: allows supervisors and instructors to provide students with feedback on their work which assists students with determining their weak points.

5.0 Product Function

- Schools, Educational Institutions or Hiring Agencies: Link-tern allows instructors to easily track their student's performance and measure their productivity efficiently. It also provides a timeline on which instructors can measure the amount of delivered tasks in a specific time duration.
- **Companies**: Link-tern allows work supervisors to evaluate the student's work online and track their progress in each task. It also allows them to add comments on the student's work. Link-tern provides companies with real and objective data which assists them with their recruitment process.
- **Students**: Link-tern provides students with a platform on which they can find their assigned tasks. Students also upload their work on Link-tern, receive comments and feedback. Students will receive approval or rejection of their work on Link-tern too.

6.0 User Characteristics

- Admin: the admin acts as an organizer of the whole process, as he is responsible for linking the student's instructor and work supervisor in one "Placement". The placement is the entity that includes the work supervisor, the instructor, student and the objectives of the student's internship. When creating the placement, the admin must choose the objectives that the student should achieve according to the educational institution's requirements.
- Work Supervisor: The work supervisor will assign the student tasks
 according to the objectives needed to be met. He is also responsible for
 evaluating the student's work and approving or rejecting it. In case of
 rejection, the work supervisor must provide the student with a rejection
 note explaining why the task was rejected.
- **School Supervisor**: the school supervisor will be able to view the student's delivered tasks, track the student's progress on the approved tasks and add notes on the student's delivered work.
- **Student**: Students must work on their assigned tasks and deliver according to the objectives. In case of task rejection students must edit task taking into consideration the rejection note posted by the work supervisor.

7.0 Diagrams

7.1 Entity Relationship Diagram (ERD)

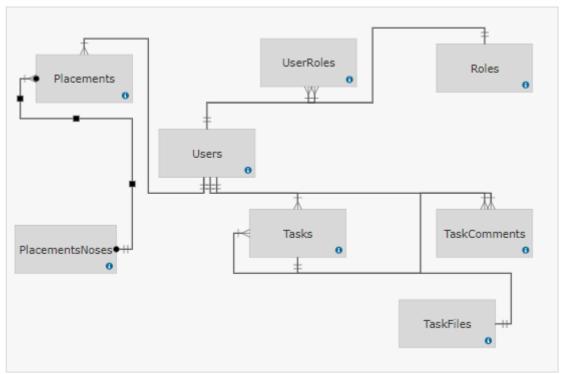


Figure 1: General ERD Diagram

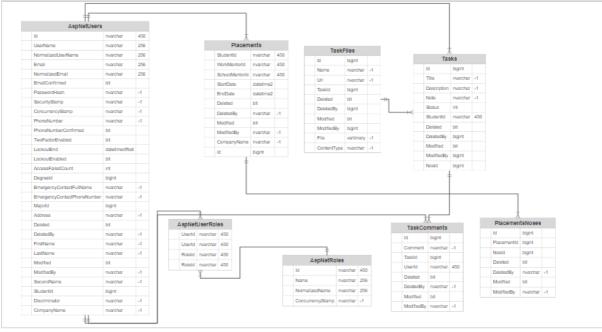


Figure 2: Detailed ER Diagram

7.2 Dataflow Diagram (DFD)

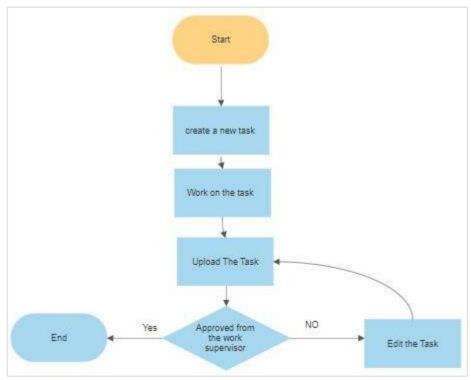


Figure 3: Student Dataflow Diagram

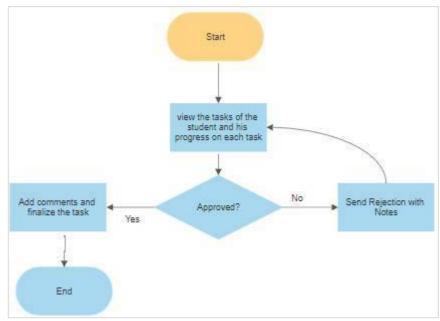


Figure 4: Work Supervisor Dataflow Diagram

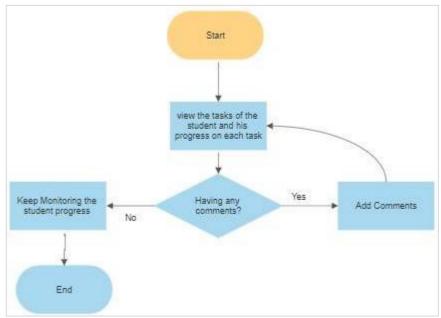


Figure 5: Instructor Flowchart Diagram