

UNITED INTERNATIONAL UNIVERSITY

LAB PROJECT

CSI 222 - DATABASE MANAGEMENT SYSTEMS LABORATORY

Hiring professionals

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May 22, 2018

1 Description

Hiring Professionals (KajLagbe) is a platform for publishing and finding jobs that are not so conventional to the existing job marketplace. We focus on providing manpower specially for the day to day requirements.

So, there are specially two types of user that will use this platform. One of them will be the Professionals with actual skills and the other type of the user will be the Consumer who will consume the service.

Consumers can post jobs specifying the skill that is needed for the job. Professionals can provide their skills during registration, which will be the key to finding all of the available jobs. Professionals can also search jobs based on location.

When professionals see a job post s/he can comment on the post to seek the attention of the consumer. Then comment is posted successfully s/he will be regarded as an interested user and option will be available to consumer to submit contract to the professional. Multiple professionals can be interested. Consumer can choose among them based on their rating / skill / daily charge.

When contract is submitted to a professional, the contract will be visible to the contracts page of the professional. If a professional accepts the contract the job will be restricted for all other users to accept.

When a professional completes a job he will have to press Job Completed button which will generate the receipt with the bill. Professionals can then rate the consumer or return to home page. In the same way consumers will also get an option to rate the professional who has completed his job.

2 Motivation

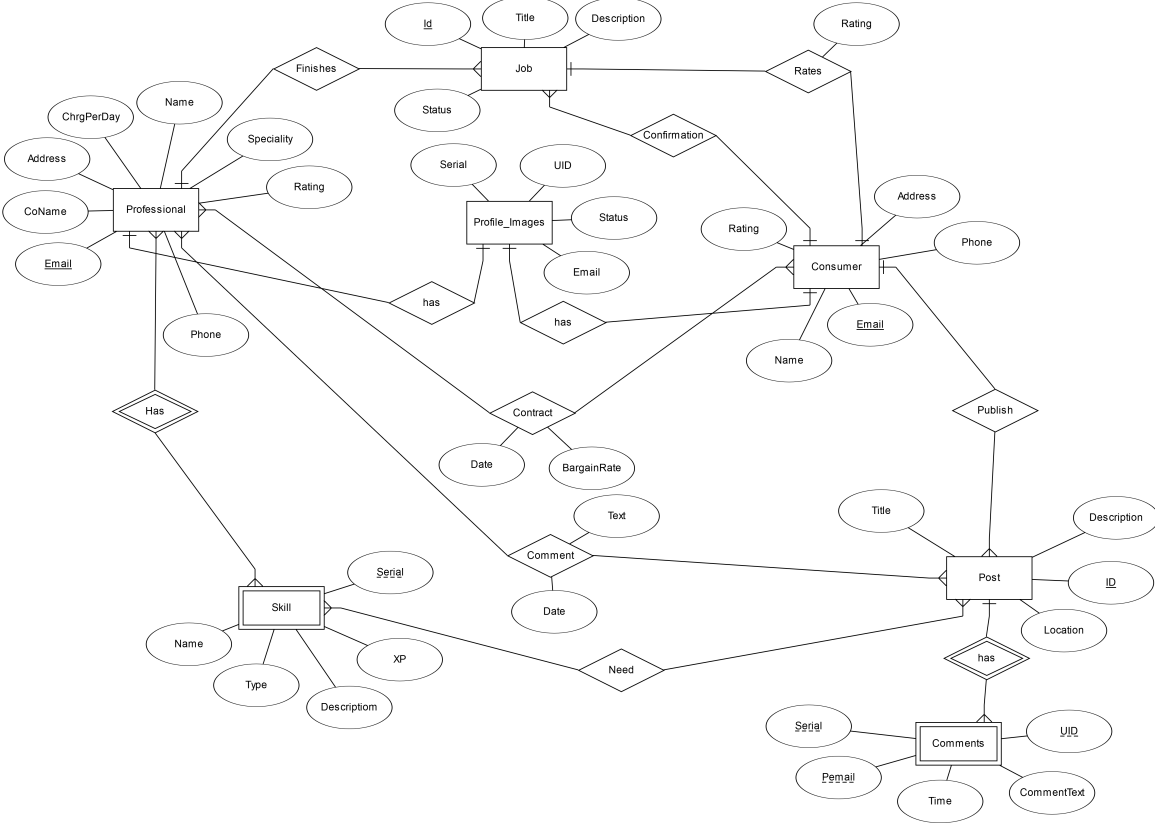
The motivation behind this project was the thought that, if there was a platform where we can find the workers needed for our day to day living. If we needed an electrician we don't have to go looking for an electrician but the only thing that we have to do is just make a post, where many professionals (electrician) can find you and have your work done with the best price.

3 Novelty

What is new about this project?

- Get jobs that are posted daily
- Get only the job suggestions that match your skills
- Manage post and contracts more efficiently
- Bill is calculated on daily basis

4 Schema Diagram



5 Tools Used

Table 1: Tools used for the project

Tool	Purpose
Xampp	For creating a localhost
phpMyAdmin	For hosting the database
MySQL	As a database system
PHP	For server side handling
Javascript	For AJAX call and form validation
Bootstrap	For responsive interface
CSS & HTML	For designing basic template

6 Challenges Faced

These are the challenges we faced while doing the project:

- **Challenge 1:** While implementing auto-complete we couldn't get data dynamically.
- **Challenge 2:** Mailing with PHPMailer didn't work at first due to authorization problem and some protocols.
- **Challenge 3:** Sending/receiving data in the background with AJAX was quite confusing at first.
- **Challenge 4:** Calculating fare based on time interval was tough to implement at first.

7 Applications

Applications of our project is as follows:

- **Application 1:** Find jobs based on skills and place.
- **Application 2:** Get suggestions of daily jobs that match your skills.
- **Application 3:** Get the list of all of your contracts that are currently in place.
- **Application 4:** Keep track of your completed jobs along with the earnings.
- **Application 5:** Posting jobs that requires a specific skill
- **Application 6:** Get the list of top employers
- **Application 7:** Generate receipt based on the time duration of a service
- **Application 8:** Comment on posts published by consumers
- **Application 9:** Rating enabled for consumers and professionals when job is finished
- **Application 10:** Each user have their own profile with all of their basic information, professionals have their skills also

8 Future Work

- Develop a mobile application based on this project.
- Adding support for map for direction and estimated time of arrival.
- One click to call feature.
- Enabling professionals active time period.
- Enabling individual messaging and replying to comments.
- Adding automated fare calculation based on some factor (e.g. time, distance).
- Discount will be provided to consumers.