Kamala Education Society's

Pratibha College of Commerce & Computer Studies, Chinchwad, Pune-19

A

Project Report

On

"Kamgaar- Labour Management System"

Developed by,

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T.Y.B.B.A. (C.A.)

Under

Savitribai Phule Pune University

(2021-2022)

Kamala Education Society's

Pratibha College of Commerce & Computer Studies, Chinchwad, Pune-19

Certificate

This is to certify that **Harshvardhan Gaikwad & Sanket Chaudhari have** satisfactorily completed the **Technology Used entitled "Kamgaar- Labour Management System" for T.Y.B.B.A.(C.A.) Semester V CA-505 Project** under the **Savitribai Phule Pune University in** the academic year **2021-2022.**

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Principal	**Program Coordinator**	

Internal Examiner	**External Examiner**

Date:

ACKNOWLEDGEMENT

Any efforts to produce successful creation require the help, Guidance and support of many people and their experience. We would like to express our sincere and heartfelt gratitude to all of them.

We would like to take this opportunity to thanks all the people who have directly or indirectly helped this project. We would like to thank our guide Mrs. Swapnal Nagwade, for his valuable guidance.

-Harshvardhan Gaikwad & Sanket Chaudhari

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ABSTARCT:

The main objective of this project is to have a completely automated project allotment system which can even be managed by a non technical person. This project will serve the purpose of maintaining all the contractor, user and labour details along with issuing registration certificate to contractor and verified labourers for small scale projects. This project will definitely reduce the time and effort in searching for contractors with expired licenses and for labourers for small scale projects. Fetching all the contractor details, labour details and work order details will be made easy with just a single mouse click. Overall management of Contract labour will be easy and quick.

PROBLEM STATEMENT:

Till now, all details of contractor and work order allotment are done manually and on paper. It becomes very difficult to get all the details about any contractor in a short time. For agricultural or small scale project purposes, commission of the contractor is quite high leading to increase in cost. Labourers are connected indirectly with the customer as part of commission going to the contractors. The present system does not follow any proper channel making the whole system redundant and ambiguous. A lot of time, money and energy is wasted in searching as well as maintaining the documents.

PROPOSED SYSTEM:

The proposed software will the precious time, money, energy and paper with flawless execution. Each and every process, be it addition of a new contractor, allotting project, connecting with individual labour for small projects, all will be digitized. Manual searching will be reduced as all contractor details can be listed along with their expiration dates and independent labourer's details would be listed with their work category, their daily charges their basic identity information who are open for small scale projects. This system's main purpose would be to convert the only sector which is still done manually and in offline methods into a digitalized system, more like LinkedIn or Naukri.com for labourers to connect directly with the customer's, neglecting the commission of contractors. Only the large scale projects with usually more than 100-200 labourers will be connected with contractors to customers but by making their commission cost effective.

EXISTING SYSTEM:

This existing system is not providing secure registration and profile management of all the users properly. This system is not providing on-line Help. This system doesn't provide tracking of users activities and their progress. This manual system gives us very less security for saving data and some data may be lost due to mismanagement. This system is not providing event management through internet. This system is not providing proper events information .The system is giving manual information through the event management executer.

Limitations:

Till now, all details of contractor and work order allotment are done manually and on paper. It becomes very difficult to get all the details about any contractor in a short time. For agricultural or small scale project purposes, commission of the contractor is quite high leading to increase in cost. Labourers are connected indirectly with the customer as part of commission going to the contractors. The present system does not follow any proper channel making the whole system redundant and ambiguous. A lot of time, money and energy is wasted in searching as well as maintaining the documents.

Project Scope:

The proposed software will the precious time, money, energy and paper with flawless execution. Each and every process, be it addition of a new contractor, allotting project, connecting with individual labour for small projects, all will be digitized. Manual searching will be reduced as all contractor details can be listed along with their expiration dates and independent labourer's details would be listed with their work category, their daily charges their basic identity information who are open for small scale projects. This system's main purpose would be to convert the only sector which is still done manually and in offline methods into a digitalized system, more like LinkedIn or Naukri.com for labourers to connect directly with the customer's, neglecting the commission of contractors. Only the large scale

projects with usually more than 100-200 labourers will be connected with contractors to customers but by making their commission cost effective.

Feasibility Study

Feasibility study can help you determine whether or not you should proceed with our project. It is essential to evaluate cost and benefit.

Operational Feasibility:

The project has been developed in such a way that it becomes very easy even for a person with little computer knowledge to operate it. This software is very user friendly and does not require any technical person to operate .Thus the project is even operationally feasible.

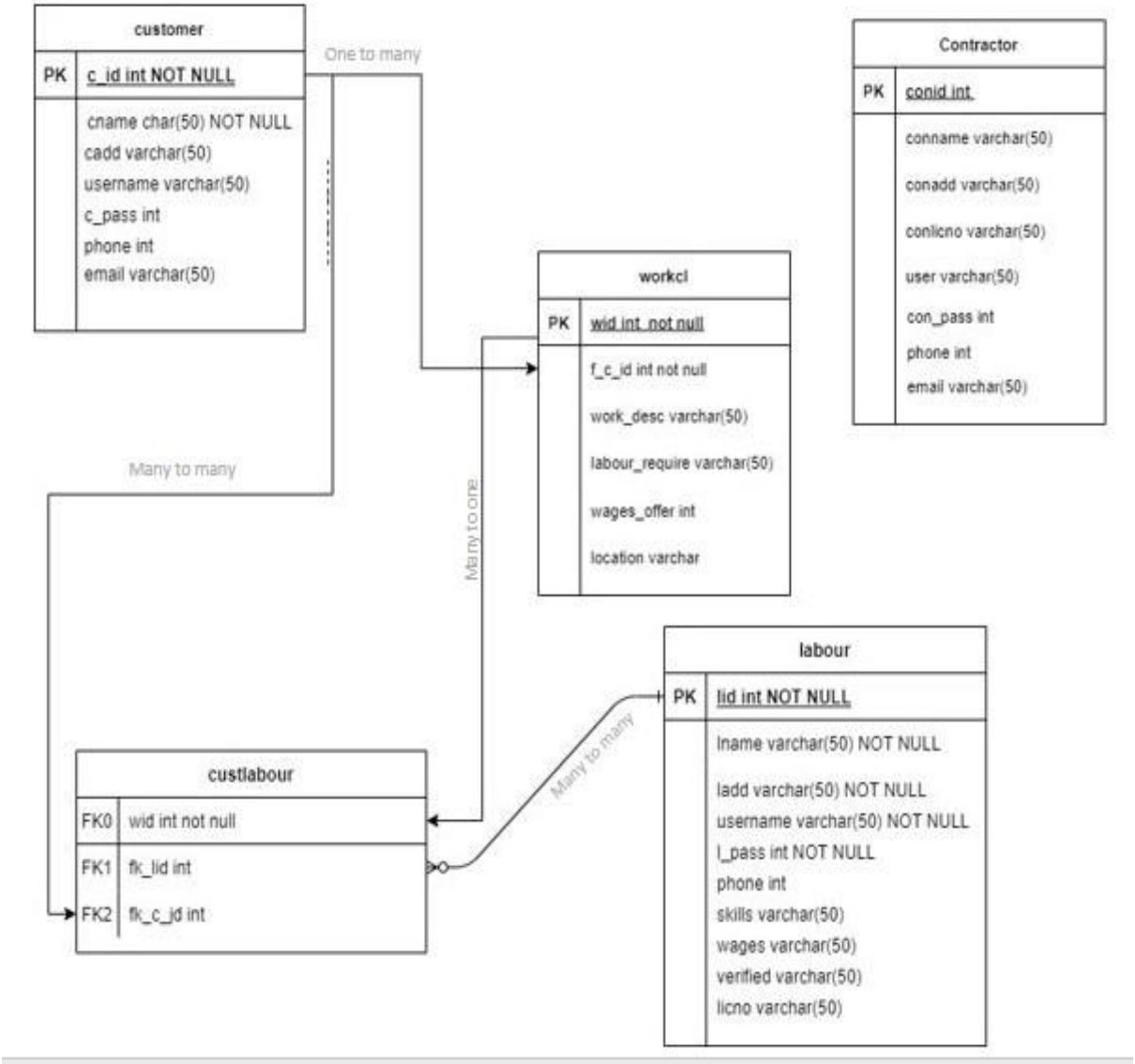
Technical Feasibility:

Technical feasibility determines whether the work for the project can be done with the equipment & software technology. Our project involves all the required specification like software application such as sql, workbench, jupyter/ visual studio code.

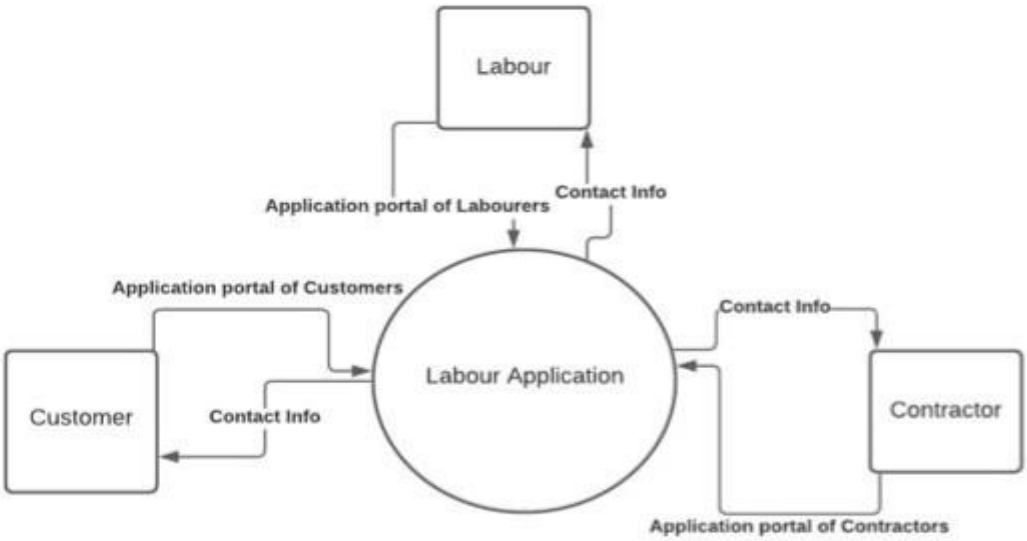
Economic Feasibility:

Cost benefit of the proposed system is that it is feasible as functions of this system is mostly on a online based platform and also helps in removing the commission of small contractors.

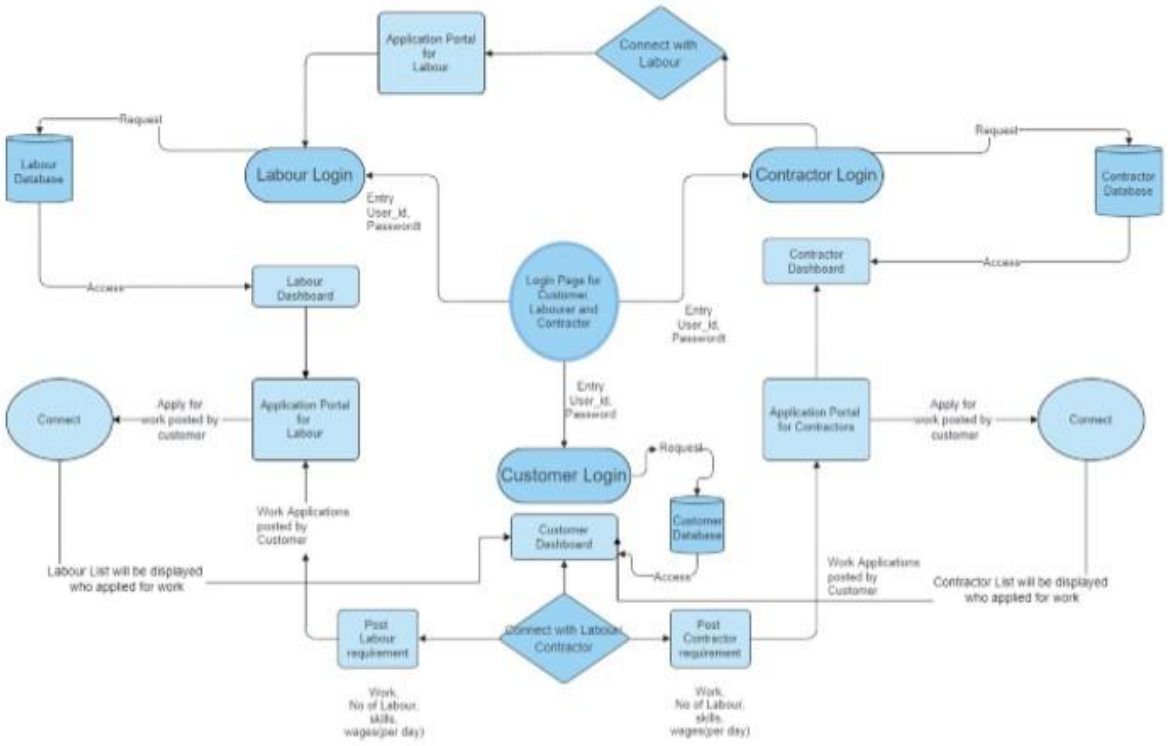
ER DIAGRAM


customer
PK
c_id int NOT NULL
cname char(50) NOT NULL
cadd varchar(50)
username varchar(50)
c_pass int
phone int
email varchar(50)
One to many
Contractor
PK
conid int
conname varchar(50)
conadd varchar(50)
conlicno varchar(50)
user varchar(50)
con_pass int
phone int
email varchar(50)
workcl
PK
wid int not null
f_c_id int not null
work_desc varchar(50)
labour_require varchar(50)
wages_offer int
location varchar
Many to many
Many to one
labour
PK
lid int NOT NULL
lname varchar(50) NOT NULL
ladd varchar(50) NOT NULL
username varchar(50) NOT NULL
l_pass int NOT NULL
phone int
skills varchar(50)
wages varchar(50)
verified varchar(50)
licno varchar(50)
Many to many
custlabour
FK0
wid int not null
FK1
fk_lid int
FK2
fk_c_id int

0 Level DFD



1 Level DFD



DATASET :

lid	lname	ladd	username	l_pass	phone	skils	wages	verfied	licno
500	Shyam Sharma	chinchwad	shyam123	123	321654789	construction labourer	400	YES	LC586
501	Sam Patil	kothrud	sam123	123	652321455	drainage work	400	YES	LC315
503	harsh patil	chinchwad	harsh123	123	652314568	construction labourer	400	YES	LC523
504	ram shinde	kothrud	ram123	123	659874566	agri labourer	400	YES	LC654
505	sushant sharma	sangvi	sushant123	123	645311564	plumbing	350	YES	LC956
506	Kabir verma	Pune	kabir123	123	546463464	agri labourer	400	YES	LC545
507	Abhishek Shinde	Pune	abhi123	123	354345345	plumbing	350	YES	LC534
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

c_id	cname	cadd	username	c_pass	phone	email
100	Raj Sharma	Pune	Raj123	123	987654321	raj@gmail.com
101	Sanket Chaudhari	Pimpri	sanket123	123	654987321	sanket@gmail.com
102	Suresh verma		verma123	123	568646565	verma@gmail.com
103	Karan Singh	Pune	karan123	123	362595426	karan@gmail.com
104	Preet Singh	Aundh	preet123	123	55463535	preet@gmail.com
105	Sai Sharma	Baner	sai123	123	35463515	sia@gmail.com
106	Rohit Kadam	Sangvi	rohit123	123	52648956	rohit@gmail.com
107	himanshu rale	Pune	himanshu123	123	369565896	himanshu@gmail.com
108	Harshvardhan Gaikwad	Pune	harsh123	123	65954661	harsh@gmail.com
109	Rahul roy	pune	rahul123	123	651546854	rahul@gmail.com
110	Ganesh Kadam	Pune	ganesh123	123	659856246	kadam@gmail.com
111	Gopi Paul	sangvi	gopi122	123	154344346	gopi@gmail.com
112	Kumar Deudkar	Pune	kumar123	123	665946232	kumar@gmail.com

wid	f_c_id	work_desc	labour_require	wages_offer	location
1	101	Agri Labourer	6	350	Chinchwad
2	100	Construction Labour	6	450	Yamunanagat
3	100	Solar Panel Fitting	4	400	Sangvi
4	100	3HP motor repair	1	500	Maval
5	101	Contruction Labourers	60	400	Shivajinagar
6	100	Plumbing	70	350	NULL
7	100	Electrician	2	350	NULL
8	100	Agri Labourer	10	400	Maval
NULL	NULL	NULL	NULL	NULL	NULL

fk_c_id	fk_lid	wid
101	503	NULL
100	500	2
101	501	NULL
100	501	2
100	504	2
101	504	NULL
100	501	2
100	505	4
100	505	4
100	505	3
100	505	3
100	505	3
100	505	3

conid	conname	conadd	conlicno	user	con_pass	phone	email
1000	Harsh Gaikwad	Pune	CL6985	harsh123	123	653546354	harsh@gmail.com
1001	Sanket Chau...	Pune	CL3548	sanket123	123	655335498	snaket22@gmail.com
1002	Vipul Susundre	Bhosari	CL1215	vipul123	123	659625665	vipul@gmail.com
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Hardware /Software Requirements

The software is designed to be light-weighted so that it doesn't be a burden on the machine running it. This system is being build keeping in mind the generally available hardware and software compatibility. Here are the minimum hardware and software requirement for Motor hub.

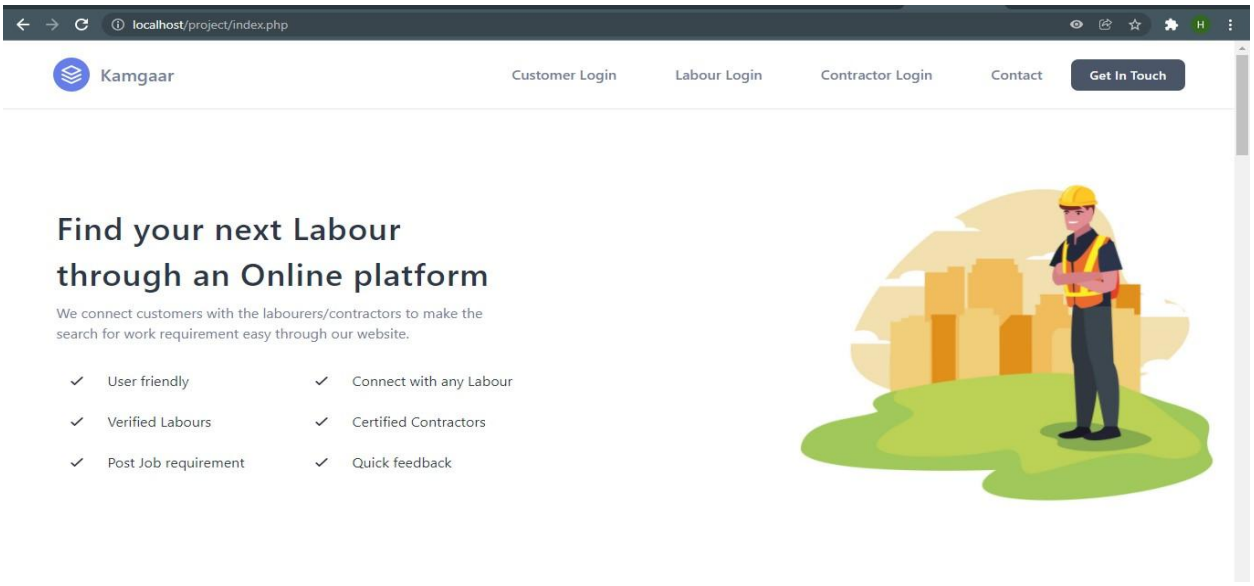
Hardware:

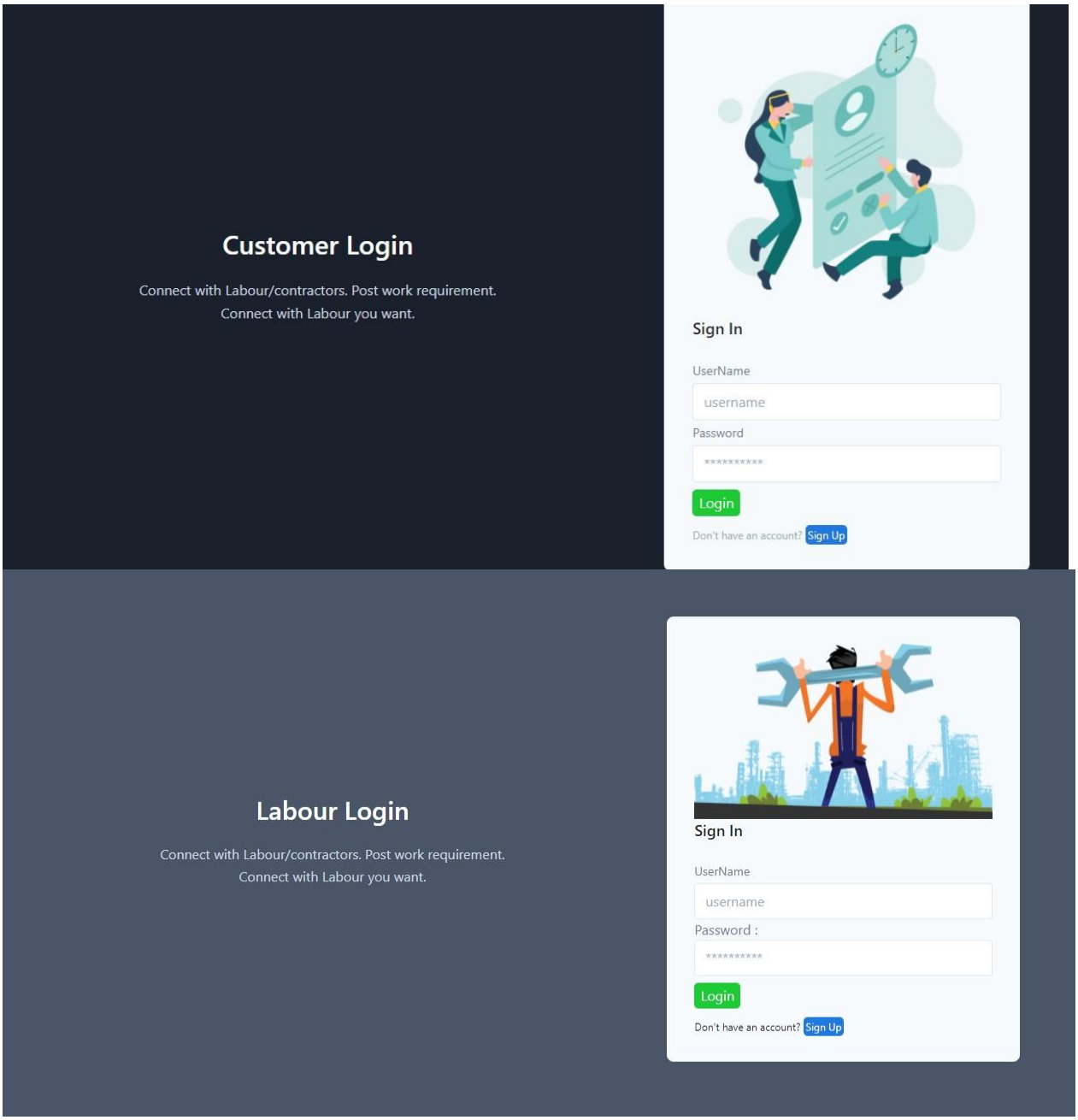
- 32-bit, Pentium-pro processor or later.
- RAM 2GB or more.

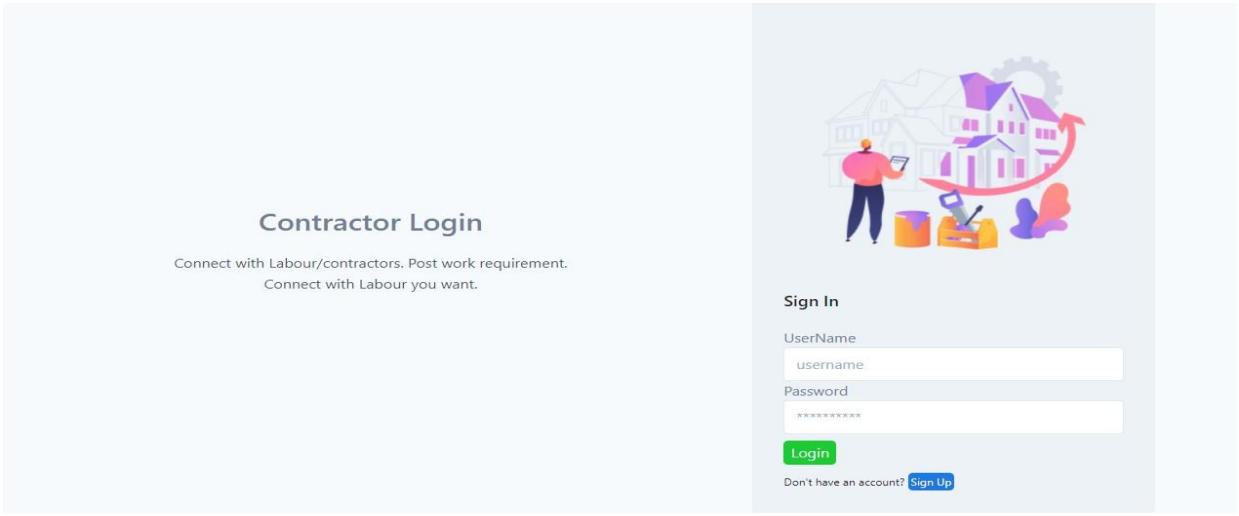
Software:

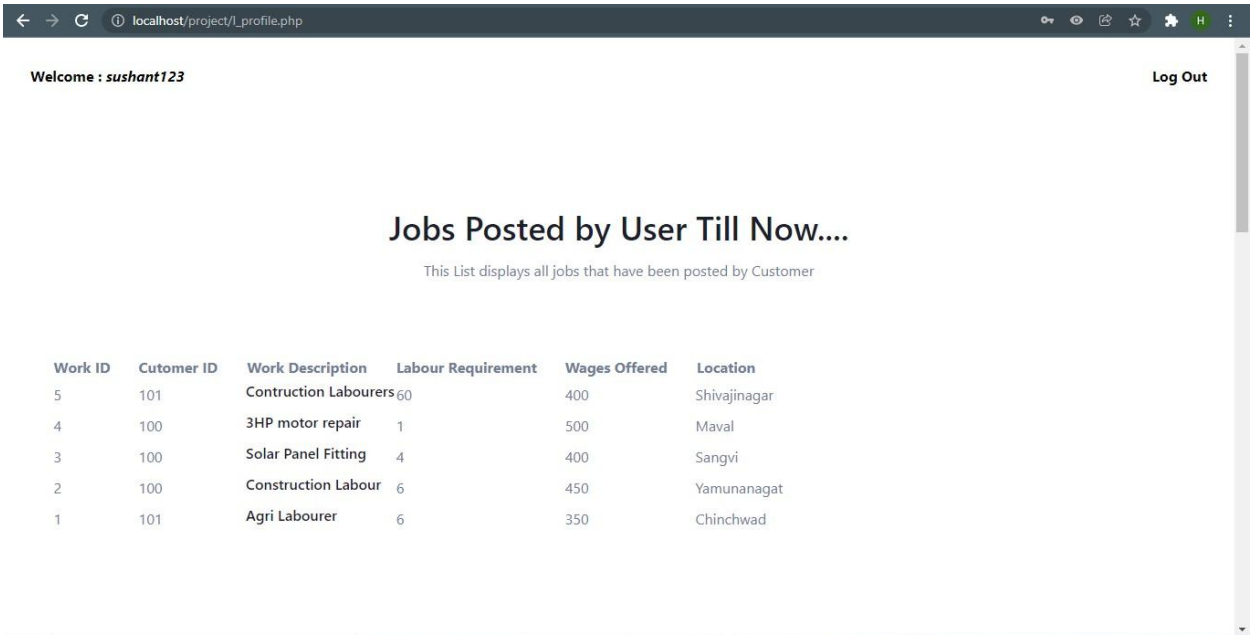
- Windows 7(32-bit) or above.
- Python 2.7 or later
- Flask

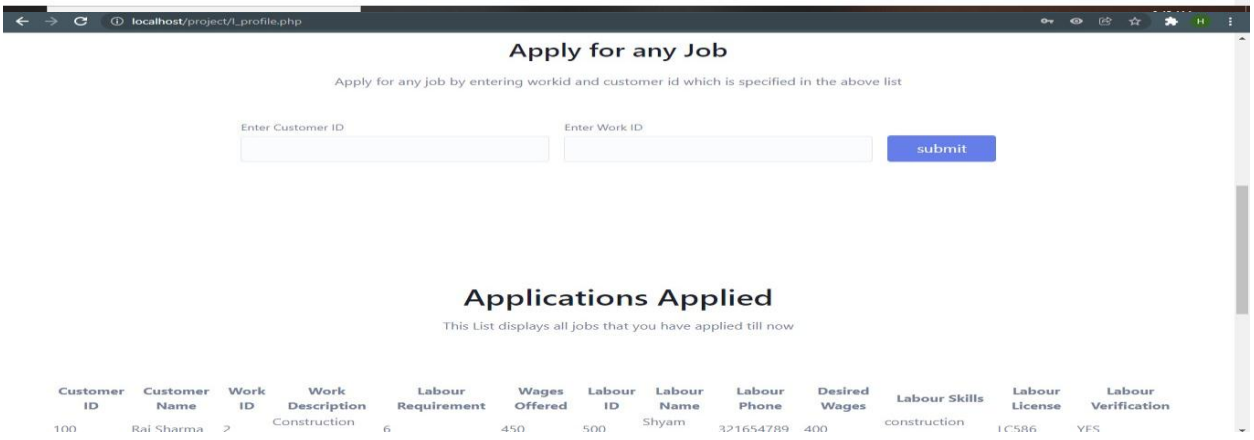
Output screens:




Customer Login
Connect with Labour/contractors. Post work requirement.
Connect with Labour you want.
Sign In
UserName
username
Password
Login
Don't have an account? Sign Up
Labour Login
Connect with Labour/contractors. Post work requirement.
Connect with Labour you want.
Sign In
UserName
username
Password :
Login
Don't have an account? Sign Up

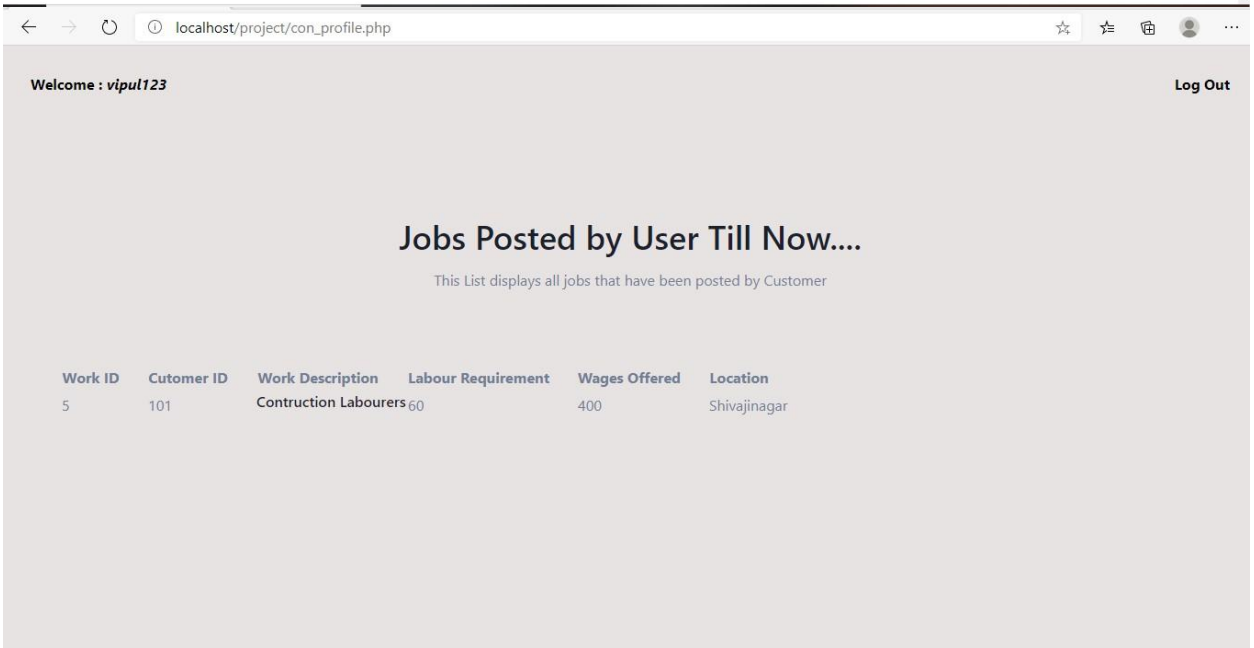

Contractor Login
Connect with Labour/contractors. Post work requirement.
Connect with Labour you want.
Sign In
UserName
username
Password
****
Login
Don't have an account? Sign Up


localhost/project/l_profile.php
Welcome : sushant123
Log Out
Jobs Posted by User Till Now....
This List displays all jobs that have been posted by Customer
Work ID | Cutomer ID | Work Description | Labour Requirement | Wages Offered | Location
5 | 101 | Contruction Labourers | 60 | 400 | Shivajinagar
4 | 100 | 3HP motor repair | 1 | 500 | Maval
3 | 100 | Solar Panel Fitting | 4 | 400 | Sangvi
2 | 100 | Construction Labour | 6 | 450 | Yamunanagat
1 | 101 | Agri Labourer | 6 | 350 | Chinchwad


localhost/project/l_profile.php
Apply for any Job
Apply for any job by entering workid and customer id which is specified in the above list
Enter Customer ID
Enter Work ID
submit
Applications Applied
This List displays all jobs that you have applied till now
Customer ID | Customer Name | Work ID | Work Description | Labour Requirement | Wages Offered | Labour ID | Labour Name | Labour Phone | Desired Wages | Labour Skills | Labour License | Labour Verification
100 | Raj Sharma | 2 | Construction | 6 | 450 | 500 | Shyam | 321654789 | 400 | construction | LC586 | YES

localhost/project/profile.php
Welcome : Raj123
Log Out
Post a Job
Applications
This List displays all jobs that have been posted by Customer and the list of labour who have applied to that particular job
Customer ID | Customer Name | Work ID | Work Description | Labour Requirement | Wages Offered | Labour ID | Labour Name | Labour Phone | Desired Wages | Labour Skills | Labour License | Labour Verification
100 | Raj Sharma | 4 | 3HP motor repair | 1 | 500 | 505 | sushant sharma | 645311564 | 350 | plumbing | LC956 | YES
100 | Raj Sharma | 3 | Solar Panel Fitting | 4 | 400 | 505 | sushant sharma | 645311564 | 350 | plumbing | LC956 | YES
100 | Raj Sharma | 2 | Construction Labour | 6 | 450 | 500 | Shyam Sharma | 321654789 | 400 | construction labourer | LC586 | YES
100 | Raj Sharma | 2 | Construction Labour | 6 | 450 | 501 | Sam Patil | 652321455 | 400 | drainage work | LC315 | YES

localhost/project/profile.php
Jobs Potsed by User Till Now....
This List displays all jobs that have been posted by Customer
WORK ID | WORK DESCRIPTION | LABOUR REQUIREMENT | WAGES OFFERED | WORK LOCATION
4 | 3HP motor repair | 1 | 500 | Maval
3 | Solar Panel Fitting | 4 | 400 | Sangvi
2 | Construction Labour | 6 | 450 | Yamunanagat


localhost/project/con_profile.php
Welcome : vipul123
Log Out
Jobs Posted by User Till Now....
This List displays all jobs that have been posted by Customer
Work ID | Cutomer ID | Work Description | Labour Requirement | Wages Offered | Location
5 | 101 | Contruction Labourers | 60 | 400 | Shivajinagar

CONCLUSION:

There is no escaping the social media these days, either for individuals or for businesses. Today, it is impossible to separate social media from the online world. Social media is a strong and potent communication tool. It presents brands with enormous reach and endless communication possibilities. It allows brands to emerge into a world of peer--to--peer dialogue and therefore the possibility of harnessing the brand building potential of the richest communication form available. However, it is important to do it

right. To approach communities and engage in dialogue that seems relevant and motivating for an audience of extremely sophisticated and literate users.Therefore, for building up a brand, a marketer must remember to:-

- Be personal
- Be in dialogue
- Be a Product
- Be a community
- Be social now

Future Scope:

- To use concepts like web sockets to improve communication between the users.
- Going to create it more user friendly by using Ajax.
- Add more features like chat application for users, view profile, give feedback for particular profile, read reviews given to a particular profile.
- Adding more features to contractor's profile page.

Bibliography and References:

- **www.php.net**

  FOR PHP, CSS, APACHE INSTALLATION :

- **www.w3schools.com**

  FOR XAMPP INSTALLATION :

- **www.apachefriends.org**
- https://www.geeksforgeeks.org/random-forest-regression-in-python
- https://scikit-learn.org/stable/modules/generated/sklearn.ensemble.RandomForestRegressor.html