

**INDIRA GANDHI NATIONAL OPEN UNIVERSITY**

**(IGNOU)**

**MCSP -232**

**A Project Proposal**

**On**

**“JOB FINDER SYSTEM”**

**By**

**Purushottam Lal Karn**

**Enrollment No: 219152721**

**Under Guidance**

**Of**

**Er. Ashish Kumar Jha**

Submitted to the School of Computer and Information Sciences, IGNOU in  
partial fulfillment of the requirements

For the award of the degree

Masters of Computer Applications (MCA)

2022 AD



Indira Gandhi National Open University

Maidan Garhi

New Delhi – 110068

## PERFORMA FOR THE APPROVAL OF MCA PROJECT PROPOSAL (MCSP-232)

Project Proposal Number: .....

Enrollment No: 219152721

Study Centre: ICA, Gyaneshwor

Regional Centre:

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Mobile / Tel No: +977-9861492492

1. **Name and address of the student:** PURUSHOTTAM LAL KARN,  
Satoshar-3, Dhanusha, Nepal
2. **Title of the Project:** Job Finder System
3. **Name and Address of the Guide:** Er. ASHISH KUMAR JHA,  
Saibu-18, Nakkhu, Lalitpur
4. **Educational Qualification of the Guide:** O Ph.D. ● M. Tech. O B.E/B.Tech O MCA O M. Sc.
5. **Working / Teaching Experience of the guide:** Assistant Professor, Nepal Engineering College (9 years of development and teaching experience)
6. **Software Used in the Project:** HTML, CSS, JavaScript (Front End), PHP( Server Side Scripting), MySQL(RDBMS), PHPStorm, MySQL Workbench, phpMyAdmin (IDE), Draw.io, Balsamiq (Prototyping), Miro (Brain Storming), MS Word, MS Visio, MS Project (Documentation, Testing, Project Management)
7. Is this your first submission? ● Yes O No

Signature of the Student

Signature of the Guide

\_\_\_\_\_  
Date \_\_\_\_\_

\_\_\_\_\_  
Date \_\_\_\_\_

### For Office Use Only

☐

Approved

☐

Not Approved

Name: .....

.....

Signature, Designation, Stamp of the  
Project Proposal Evaluator

Date: .....

Suggestions for reformulating the project

# Ashish Kumar Jha

NEC Registration No:3495

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## Objective

Seeking a position to utilize my skills and abilities in Software Development, Information Technology Industry & Teaching, Administration and Research & Development with a leading & reputed college/ Educational Institution that offers Professional growth while being resourceful, innovative and flexible.

## Professional Summary

- Having 4 years of experience in Software development with progressive experience as Technical Support Engineer Have good knowledge of programming languages. My Technical Skills are
  - ERP: SAP BI, ECC 6.0
  - Languages/Web Technology: Asp.Net, C#, CSS, Laravel (Learning)
  - Database: SQL Server, Microsoft Access, MySQL
  - Package: Proficient in Microsoft Office
  - IDE & Tools: Visual Studio
- Experience of facilitating/coaching students by using interactive discussions and “hands-on” approaches to help students learn and apply concepts in subjects.
- Dedicated & self-motivated leader with proficiency in handling various activities.
- Result oriented professional with strong interpersonal skills & ability to relate to teachers/students at all levels, possesses stupendous skills for mentoring, guiding students.
- Interested Subject for academic are
  - At UG Level: Computer Science, Programming in C, Computer Networks, Database Management System, Artificial Intelligence, Design and Analysis of algorithm, Distributed System, Web Technology, Object Oriented Programming and many more....
  - At PG Level: Design and analysis of Algorithm, Advanced Computer Network...

## Professional Experience

Employer	Post	Duration
Nepal Engineering College	Assistant Professor	July 017-Till Now
Janamaitri Multiple Campus	Assistant Professor	December 021 - Till Now
International Center for Academics (IGNOU)	Assistant Professor	July 017- Till Now
Academia International College	Assistant Professor	July 018- August 019
XclusiveMinds Pvt Ltd	Technical Support Engineer	September 013 to January 015

### Academic Qualification

Level	Institution	Board	Score	Passing Year
<b>MTech</b>	Sharda University	SU	79.1	2017
<b>BE</b>	Advanced College of Engineering and Management	TU	63.5	2014
<b>+2</b>	Capital College and Research Center	HSEB	56.9	2008
<b>SLC</b>	Holy Land International School	HMG	67.13	2006

### Publication in Reputable Journal with Dates

1. Scene Text Recognition Based on Bidirectional LSTM and Deep Neural Network MVV Kantipudi, S Kumar, **A Kumar Jha** - Computational Intelligence and Neuroscience, 2021.
2. **Ashish Jha**, Menuka Maharjan, " Smart Lighting System Using LoRa WAN Technology ", International Journal of Engineering and Manufacturing (IJEM), Vol.12, No.1, pp. 48-53, 2022. DOI: 10.5815/ijem.2022.01.05
3. **Jha Ashish K.**, Bababe Adam B, Ishan Ranjan, Smart Street Light Management System Using LoRa Technology, International Journal of Science and Research (IJSR), ISSN: 2319-7064, Volume 6 Issue 3, March 2017.
4. Bababe Adam B., **Ashish Kumar J.**, Rajiv Kumar, Lora Based Intelligent Home Automation System, International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume6 Issue-3, February 2017.
5. **Jha Ashish K.**, Bababe Adam B, Dr. Ashok K. Sahoo, Plant Disease Information Generating System Based On Android Application Technology, International Journal of Science and Research (IJSR), ISSN: 2319-7064, Volume Issue 4, March 2017.
6. Bababe Adam B., **Ashish Kumar J.**, Rajiv Kumar, Touch-n-Play: An Intelligent Home Automation System, International Conference on Computing, Communication and Automation (ICCCA 2017).
7. Manandhar S., Bajracharya S., Karki S, **Jha Ashish K.**, Hand Gesture Vocalizer for Dumb and Deaf People, SCITECH Nepal, ISSN: 2091-1742, Volume 14 Issue 1, April 2019.

### Industry Project Experience

#### 1. Final Semester Project as part of BE Curriculum DigiSign (Asp.net with C# and SQLServer 2008R2)

Project Description: DigiSign is about Digital Signature and Certificate Authority similar to cosign. It Provide Service in generation of certificate, digitally signing the Document, encryption, and decryption .doc and .pdf file. It focuses in maintaining authentication, integrity, confidentiality & non-repudiation.

Contribution: In Designing database and developer

## ***2. Mini Project as part of BE Curriculum***

Project Description: BIMS is web-based portal to facilitate the information and the co-ordination between the supply and the demand of the blood. This project was developed and design on the case study on Red Cross Society (Blood Bank). Contribution: In Development Backend, Designer

## ***3. PG Dissertation***

### **Plant Leaf Disease Detection and Classification- Image Processing**

Project Description: This Project is related to image processing in this project k- mean clustering is done to identify the region of interest and Support Vector machine is used for classification.

### **Live Industry Project**

- **Necosplus (.net with C# and SQL Server 2005 & 2008 R2)**
  - Project Description: Necosplus is cooperative bank software. It maintains all the transaction with desktop application of share print, membership print, cheque Print, FD Member print.
  - Contribution: Developer of all desktop application and different module in banking software with Customer Support
  
- **LifeTrust (C# and SQL Server 2008 R2)**
  - Project Description: LifeTrust software is diagnostic software. It is used to keep record of patient that do pre-medical test before going abroad. It is connected with fingerprint Device. Contribution: Development and support.

### **Conference, Training & Workshops attended with Dates**

- Resource Person on training on Research Training Program- Funded By UGC, nec, 26-29 September, 2021.
- Training on RAD using PHP Laravel- Funded By UGC, nec, 20-23 September, 2021.
- Workshop program on LoRa Technology, ST Microelectronics, Greater Noida, 15th December 2016.
- Workshop program on SAP HANA, SAP LABS Pvt. Bangalore, India. 26th -28th September, 2016.
- Seminar and Workshop on Mobile Application, Sharda University, India, 20th Sept., 2016.
- Workshop Program on Big Data Analytics & Hadoop, Geeks Lab Pvt, India 2nd April, 2016.
- Workshop Program on ANDROID, APTRON Solutions Pvt, India, 5th March, 2016.

- Training on SAP BI, ERP Solution, Netaji Subhash Palace India, 12th April-2015 -30th August 2015.

### Key Skills

- Good Communication Skills and Hard Working.
- Quick Learner, ability to think positive and face challenges.
- Would like to work effectively in a team or independently.
- Interested in learning to use new technologies.

### Interest and Hobbies

- Travelling New Places and enjoy hiking and Exploring new Technologies.
- Playing with electronics hardware's.
- Listening Lata and Kishore Music.
- Interacting new people and their diversity.
- Playing Cricket, Basketball, Table Tennis.

### Personnel Dossier

Father's Name	Krishan Kumar Jha
Mother's Name	Biva Devi Jha
Gender	Male
Date of Birth	1989-05-18 AD (BS 2046-02-05)
Marital Status	Married
Language Known	English, Nepali, Maithili, Hindi, Bhojpuri

### Declaration

I hereby declare that the above written particulars are true to the best of my knowledge and belief.

Dated:

Ashish Kumar Jha

*\*Reference can be provided as per request*

१९९२ श्री ५ को सरकार सकेत नं: ०१७  
गृह मन्त्रालय  
जिल्ला प्रशासन कार्यालय, धनुषा

नेपाली नागरिकताको प्रमाण-पत्र

ना.प्र.नं.: २४०१३००४१ नाम थर :- ३१/११/८० कुमार मा

मस्थान :- जिल्ला स्थानीय तह नं. ८ वडा नं. २

म.न.पा./गा.वि.स. ८७४२/५५


स्थायी वासस्थान :- जिल्ला स्थानीय तह नं. ८ वडा नं. २

उ.म.न.पा./गा.वि.स. ४२

जन्ममिति :- साल १९८० महिना २ गते ५

बाबुको नाम, थर र ठेगाना :- कुमार मा

पतिको नाम, थर र ठेगाना :-



नेपाल नागरिकता ऐन, २०२० बमोजिम यो नागरिकताको प्रमाण-पत्र दिइएको छ

नागरिकताको किसिम:-

प्रमाण-पत्र पाउने व्यक्तिको सही:-

औंठाको छाप

दायाँ बायाँ

प्रमाण-पत्र दिने अधिकारीको:-

दस्तखत:-

नाम, थर:- कुमार मा

दर्जा:- प्रमुख कार्यकारी अधिकृत

मिति:- ०३/११/२०२०

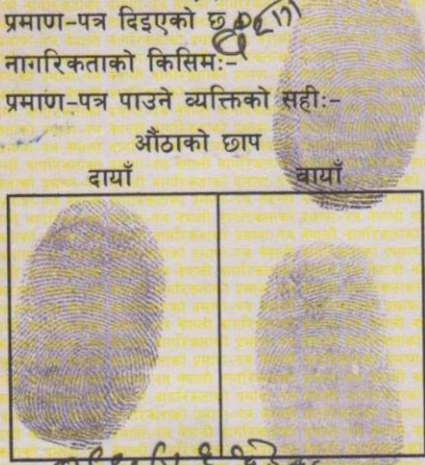


Figure: Identity Card of Project Guide



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# ACKNOWLEDGEMENTS

First of all I would like to thank Mr. Ashish Kumar Jha, my project guide for his valuable suggestions, and insights during the brain storming session to choose a project title from multiple possible options. This had been a very challenging task indeed.

I would also like to thank Mrs. Padma KC, Academic Coordinator at International Centre for Academics (ICA), for her tireless support and constant inspiration to complete tasks on time. I would like to extend my heartfelt thanks towards Mr. Biswajit Mainaly, Computer Lab In-charge at ICA for his generosity, patience, thought provoking discussion and critical analysis during the project features selection.

I am grateful to have known Mrs. Kusum Luitel, the librarian at International Centre for Academics (ICA), a wonderful persona who have never let me down with any resource requirements during project proposal development.

Last but not the least, I would like to thank my better half, Mrs. Your wife name for her patience and handling kids, while I remain engaged in research. I thank my parents to introduce me to two important life lessons in order to succeed in life, hard work and perseverance.

Purushottam Lal Karn

Enrollment No: 219152721

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# **CHAPTER 1 – INTRODUCTION**

Job Finder System, aims to develop an online job search portal in order to facilitate the job seekers to get the information and apply on the most suitable job as per their skill set. This system can be used for providing information related to new job openings in the desired area of interest. The study shows that most of the employees who hold the position without interest in the nature of work they perform are likely to either switch their job, sooner or later, or their performance degrades day by day.

There are multiple ways through which jobs are being searched. Social media, print media, referrals, websites and human resource agencies are common platforms for posting and finding jobs. LinkedIn ("About LinkedIn", 2022), UpWork ("How Does Upwork Work for Freelancers | Upwork", 2022), has set a minimum set of how jobs are supposed to be posted and jobs are supposed to be searched.

## **1.1 Objectives**

The general objectives of the project is

- To build a secured web application that can allow employers to post vacancies after which job seekers should be able to search and apply for the job.
- To build and test module to schedule a job and notify the candidate about the appointment status.
- To generate analytical reports based on the online transaction processing system.

## **1.2 Project Category**

This project will be a web application that will use 3-tier architecture of database application development. The first tier will be presentation layer including the forms and reports and other GUIs that might be necessary for the application. The technologies that will be used at this layer is, XHTML, CSS, and JavaScript. The second tier will include the business logic and its handling through the PHP scripting language. The third tier will be the Database Layer, where physical database will be implemented. MySQL will be used as the relational database management system (RDBMS).

### 1.3 Tools Used

*Table 1.1 Tools Used*

<b>Tool</b>	<b>Purpose</b>
MS Word 2016	Documentation
PHPStorm 2021.3.3	Integrated Development Environment
Git 2.35.1.windows.2	Version Control System
MS Visio	High Level Design
MS Project	Project Management Tool
MySQL Workbench	Relational Database Design and Implementation Tool
Balsamiq	Wire framing
XAMPP	Development Environment
Windows 10 64 bit	Operating System
PHP	Server Side Scripting Language
HTML, CSS, JavaScript	Front-End Design Tool

### 1.4 Problem Statement

The earlier existing system has an underlining problem of not being able to track post job application procedures of scheduling appointment and recording the status of the job seeker, whether or not they have been hired. This system will primarily focus to solve this problem. The job seeker can always be tracked for their availability for new openings and current status of the job. There will be employer review section that will help other potential employers to better understand the job seeker and choose more suitable candidate for the position.

### 1.5 Use Case Diagram

### 1.6 Descriptive Use Case

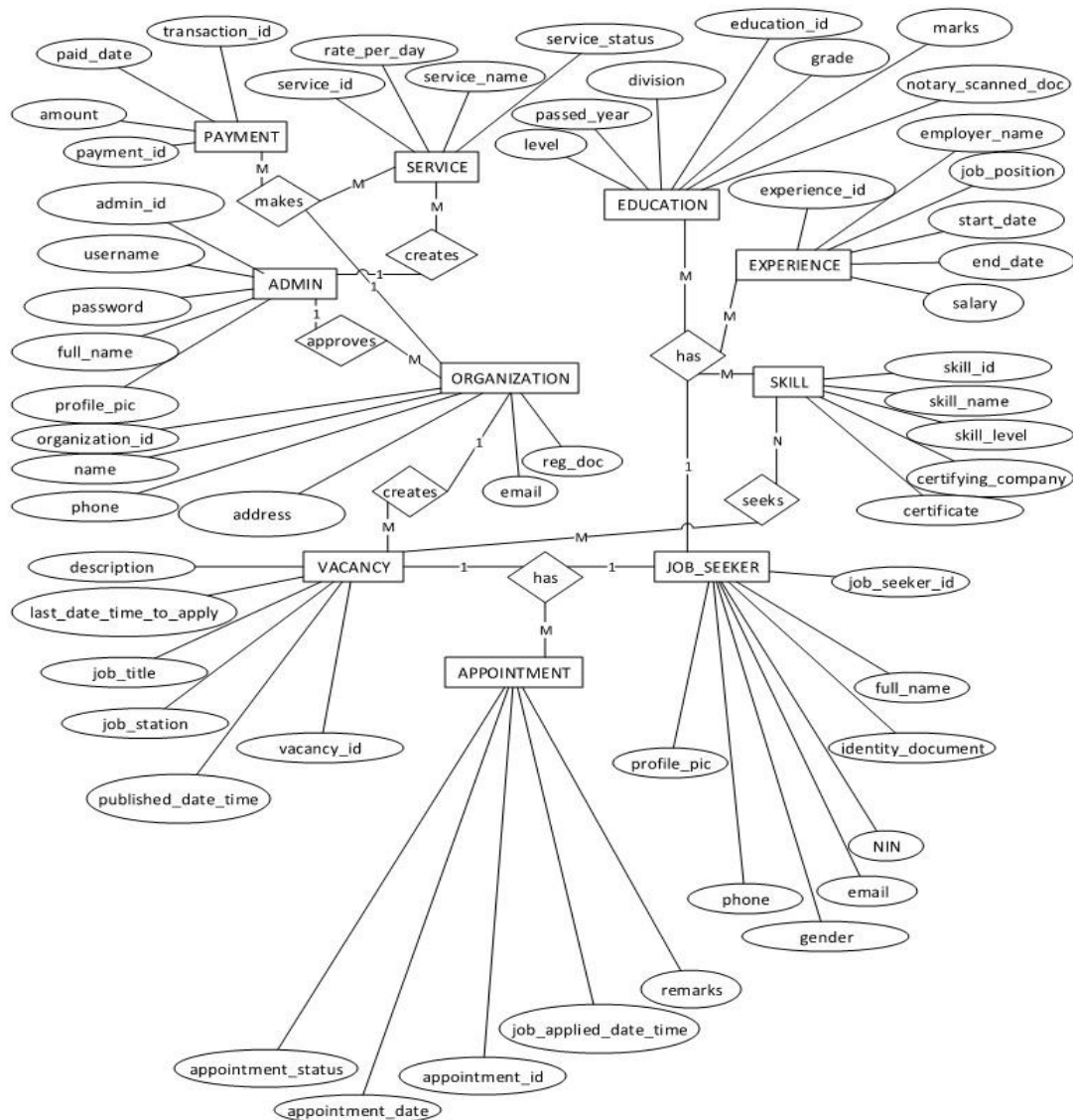
### 1.7 Gantt Chart

### 1.8 Scope of the Solution

## CHAPTER 2- SYSTEM ANALYSIS

The system have been analyzed using various tools to study the features required for the system to be operational under some constraints. Entity relationship model (ER Model) has been used to analyze the data requirements of the system during the requirements engineering process (Elmasri & B. Navathe, 2011).

### 2.1 ER Model



## **REFERENCES**

About LinkedIn. (2022). Retrieved 6 June 2022, from <https://about.linkedin.com/>

Elmasri, R., & B. Navathe, S. (2011). Database Systems Models, Languages, Design and Application Programming (6th ed.). New Delhi: Pearson Education, Inc.

How Does Upwork Work for Freelancers | Upwork. (2022). Retrieved 6 June 2022, from <https://www.upwork.com/i/how-it-works/freelancer/>