



Project Report

On

KHub - A Job Portal

Submitted By:

Nikhil Jain & Ashish Agrawal

Roll.no 20 Roll.no 49

April 15, 2022

Guided By

Prof. Vrushali Kulkarni



CERTIFICATE

CERTIFICATE

This is to certify that Mr. Nikhil Ramesh Jain of BBA – (Computer Applications)
Department, School of Management (UG), MIT World Peace University, Pune has successfully completed the project work titled "KHub – A Job Portal", in partial fulfillment of requirement for the completion of BBA – (Computer Applications) course as prescribed by the University. The project report is the record of authentic work carried out by Nikhil during the period from Feb 2022 to May 2022. Nikhil Jain has worked under my guidance.

Signature:	Signature:
Name: Prof. Vrushali Kulkarni	Name: Prof. Geetika Parmar
Project Guide (Internal)	Course In-charge
Date:	Date:



CERTIFICATE

This is to certify that Mr. Ashish Rajendra Agrawal of BBA – (Computer Applications) Department, School of Management (UG), MIT World Peace University, Pune has successfully completed the project work titled "KHub – A Job Portal", in partial fulfillment of requirement for the completion of BBA – (Computer Applications) course as prescribed by the University. The project report is the record of authentic work carried out by Ashish during the period from Feb 2022 to May 2022. Ashish Agrawal has worked under my guidance.

Signature:	Signature:
Name: Prof. Vrushali Kulkarni	Name: Prof. Geetika Parma
Project Guide (Internal)	Course In-charge
Date:	Date:



Student Information

SR.NO	Particulars	Details
1.	Student Name	Nikhil Jain & Ashish Agrawal
2.	Roll.No	20 & 49
3.	Guide's Name	Prof. Vrushali Kulkarni
4.	Programme Name	Bachelor Of Business Administration (Computer Applications)
5.	Trimester	09
6.	Course Code	BBC312A
7.	Project Title	KHub – A Job Portal



ACKNOWLEDGEMENT

ACKNOWLEDGEMENT

We are glad to take this opportunity to acknowledge all those who helped us in developing and in successful completion of our project titled

"Khub - A Job Portal"

We would like to extend our thanks to our project guide Prof. Vrushali Kulkarni for her valuable guidance and timely assistance throughout the development of the project.

We would also like to extend our thanks to the Course In-Charge Prof. Geetika Parmar without her help and support this project would not have been possible. We are also really thankful to all our friends who advised and motivated us throughout the course.

Thanking You in Anticipation,

Nikhil Jain Ashish Agrawal Roll.no 20 Roll.no 49



ABSTRACT

ABSTRACT

The Project named "KHub – A Job Portal" is developed as an attempt to publish and show opportunity to user, take various details of student and making it available for the administrator purpose. The system provides the facility of viewing added opportunities with option to either apply or reject, also view details of the student by auto-generating resume for easy view of student details. Moreover it also provides the facility to take practice quiz, prepare for Interview FAQ, See and gather details about various other company, also providing admin the ability to search for records and print reports.

The application, as described above, can lead to error free, secure, reliable and fast management of the data. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it helps organization in better utilization of resources. The organization can maintain computerized records without redundant entries. That means that one need not be distracted by information that is not relevant, while being able to reach the information.



Table of Contents

Synopsis	9
Introduction	9
Scope of the project	9
Objective of the project	10
Hardware and Software Requirements	10
Functional and Non-Functional Requirements	11
Requirement Gathering	11
System Design	12
DFD - Context Level Diagram	12
DFD - Level 1	13
UML - USE CASE Diagram	14
UML - CLASS Diagram	15
UML - Activity Diagram	16
Data Dictionary	17
Admin Table	17
Login Table	17
Contacts Table	17
Student Personal Detail Table	18
Student Academic Detail Table	19
Skills Table	20
Student Achievements Table	21
Student Project Experience Table	21
Job Opportunity Table	22
Student Application Status Table	23
User Interface Design	24
KHub Home Page	24



Sign Up Page	24
Login Page	25
User - Add Personal Detail	26
User - Add Academic Details	27
User - Add Skills Details	28
User Home Page	28
User - View Opportunities	29
User - View Application Details	29
User Setting Page	30
User - View Resume Page	31
User - FAQ & Quiz Index	32
Organization Index	32
Google Org Detail	33
Admin - Home Page	34
Admin - View Added Opportunities	34
Admin - Add New Opportunities	35
Admin - Edit and View Application List	36
Admin - View User Record	37
Future Enhancement	38



Synopsis

Introduction

The project KHub – A Job Portal, is a web based application. It is a platform where user can register, add, view, edit, update, and maintain their information. User can also see and register for publish job opportunity. Moreover user can take practice quiz, prepare for Interview FAQ, and see various company details. The system is developed using Java, JSP, HTML and CSS and uses MySQL for database management.

The database can be access by Administrator. Administrator has the feature to publish opportunity and generate report related to the publish opportunity. Administrator also has rights to view user personal and academic details as a whole resume. The system provides the facility to search for the records and display the list of candidate as well as allow printing necessary records.

The project KHub also provides facility to store information error free, securely, accurately, and making the information accessible as and when required. Also the system is flexible enough to meets any future requirements.

Scope of the project

The project titled 'KHub' is a job portal application developed that is intended to be use by any user seeking for a job. The user can register and maintain their personal and academic details. User can generate resume in multiple formats. User can prepare itself for Interview and test. User can check and apply for any active opportunity that is display. And admin can generate and print reports related to particular opportunity.

In case if any company wants records of students for the placement purpose, then admin can print and provide the necessary records of the students accordingly.



Objective of the project

The main objective of the project KHub is to provide details to the user for job opportunities maintaining user personal and academic details with error free, secure, reliable and fast management of data. The application helps generate resume based on the user information, which can be access by and view by Administrator, also providing the facility to generate and print the necessary report.

The purpose of the project is to build an application to reduce the manual work for managing all user records and ease the job seeking process. Also provide the feature to practice and prepare user for Interview FAQ and Test.

Hardware and Software Requirements

Hardware:

Name of Component	Specification		
Processor	Intel i5 and above		
Processor Speed	1.6 Hz and above		
RAM Size	2GB and above		
Hard Disk	2.5GB and above		

Software:

Name of Component	Specification
Operating System	Microsoft Windows 8 and above
Language	Java, JSP, HTML, CSS, JS(Basic)
Browser	Chrome, Internet Explorer, Firefox, etc
Web Server	Apache Tomcat 7 and above
Software Development Kit	Java JDK 1.8 and above
Database JDBC Driver	MySQL Connector Java



Functional and Non-Functional Requirements

FUNCTIONAL REQUIREMENT:

- Student must be able to register and login to the application.
- Student must be able to add personal, academic, skills, and etc details.
- Application must be able to generate student resume based on entered data.
- Admin should be able to add, edit, update opportunity details
- Admin should be able to view the student records and print necessary records
- Application should also provide the facility for admin to view generated resume.

NON-FUNCTIONAL REQUIREMENT:

- Network Accessibility at user end is required to access the application.
- User must have login to take benefit of the application
- Data should be store securely and should be accessible as and when required.
- The application must have user-friendly interface.
- Website should not take lots of time to load.

Requirement Gathering

This document describes the requirement for the project KHub.

The proposed system has the following requirements:

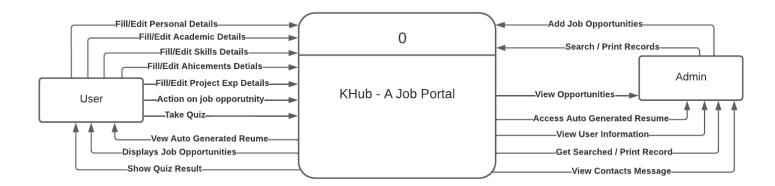
- Application needs to store student personal and academic details.
- Application needs to store and show job opportunities details to user.
- Application needs to help admin in viewing, searching, printing user records and also allows access to view user resume.
- Application need to maintain quality records
- Application should allow user to edit and update record as and when required.
- Application should not allow duplicate entry of records.



System Design

DFD - Context Level Diagram

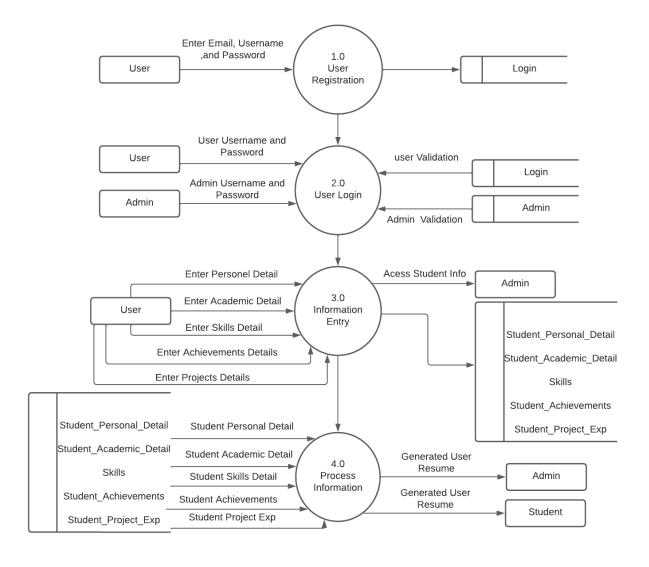
A context diagram, sometimes called a level 0 data-flow diagram, is drawn in order to define and clarify the boundaries of this KHub Application. It identifies the flows of information between the system and external entities. The entire application is shown as a single process.





DFD - Level 1

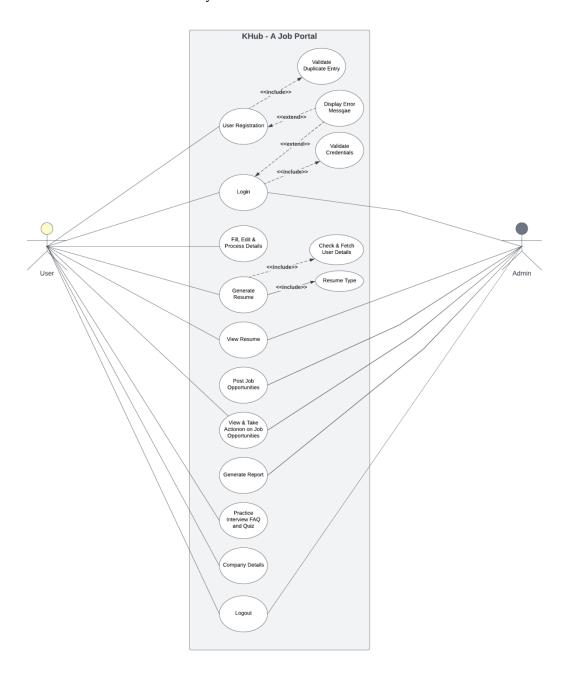
Level 1 DFD define an "exploded view" of the context diagram. It highlights main functions of the KHub Application. Visualize incoming data flow, processes and output data flows.





UML - USE CASE Diagram

Here, this is the UML – Use Case Diagram of our application called "KHub - A Job Portal." It's basically summarized the details of our system's users and their interaction with various functions of our system.

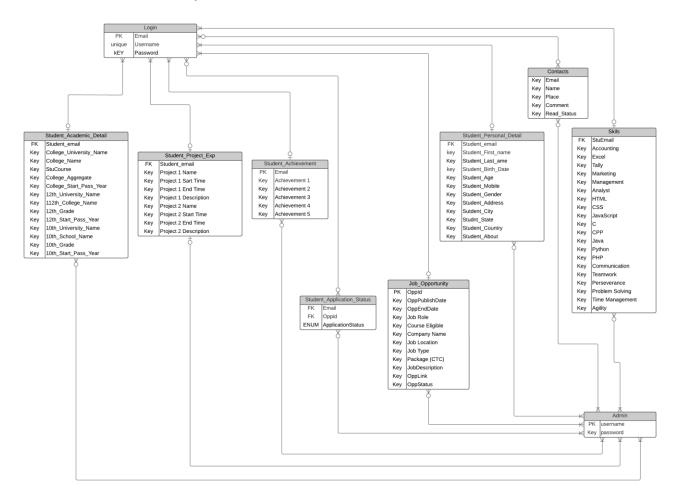




UML - CLASS Diagram

Here, this is the class diagram for KHub application. It defines the blueprint of set of objects. This diagram also defines what various objects do, thus explaining database static structure.

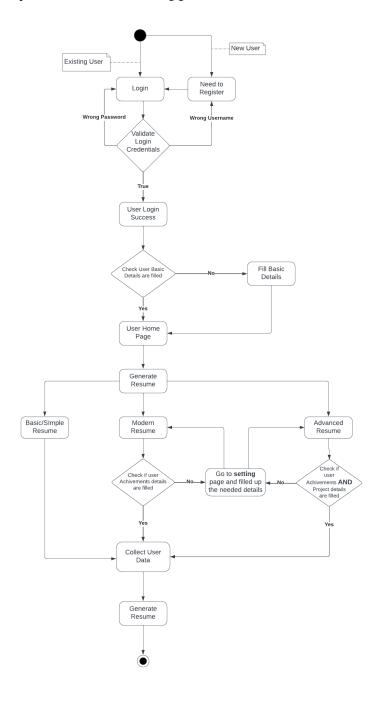
Using class diagram, here we are defining different objects, relationship between them and the attributes each objects has.





UML - Activity Diagram

This is the activity diagram of our KHub application. Here using activity diagram we are explaining the dynamic view of our application function for Generating Resume.





Data Dictionary

Admin Table

Attributes	Data-Type	Constraints	Control	Validations	Description
Username	me VARCHAR(50) PRIMARY KEY, Type text field	Unique & Non	Admin		
Oscillatio VARCHAR(50)	NOT NULL	Type text field	empty	username	
Password	VARCHAR(20)	NOT NULL	Type password	Non Empty	Admin
Password VARCHAR(20)	field	field	Non Empty	Password	

Login Table

Attributes	Data-Type	Constraints	Control	Validations	Description
Email	VARCHAR(320)	PRIMARY KEY	Type Email Field	Non-Empty	Student Email
Username	VARCHAR(50)	UNIQUE, NOT NULL	Type text field	Unique & Non empty	Account username
Password	VARCHAR(20)	NOT NULL	Type password field	Non Empty	Account Password

Contacts Table

Attributes	Data-Type	Constraints	Control	Validations	Description
ContactName	VARCHAR(50)	NOT NULL	Type Text Field	Non Empty	User Name
ContactEmail	VARCHAR(320)	NOT NULL	Type Email Field	Non Empty	User Mail Id
ContactPlace	VARCHAR(20)	NOT NULL	Type Text Field	Non Empty	User Place Name
ContactComment	LONGTEXT	None	Type Text Field	None	User Comment
ContactStatus	VARCHAR(20)	NOT NULL, DEFAULT 'unread'	NONE	None	Contact Read/Unread Mark



Student Personal Detail Table

Attributes	Data-Type	Constraints	Control	Validations	Description	
StuEmail	Foreign Key> Login table					
StuFirstName	VARCHAR(50)	NOT NULL	Text Field	Non-Empty	Student First Name	
StuLastName	VARCHAR(50)	NOT NULL	Text Field	Non-Empty	Student Last Name	
StuBirthDate	VARCHAR(12)	NOT NULL	Date	Non-Empty	Student Birth Date	
StuAge	INT	NOT NULL	NONE	NONE	Student Age	
StuMobile	VARCHAR(20)	NOT NULL	Tel-Field	Non-Empty	Student Mobile Number	
StuGender	ENUM('M', 'F', 'O')	NOT NULL	Radio Button	Non-Empty	Student Gender	
StuAddress	VARCHAR(300)	NOT NULL	Text Field	Non-Empty	Student Address	
StuCity	VARCHAR(50)	NOT NULL	Text Field	Non-Empty	Student City	
StuState	VARCHAR(50)	NOT NULL	Text Field	Non-Empty	Student State	
StuCountry	VARCHAR(50)	NOT NULL	Text Field	Non-Empty	Student Country	
StuAbout	VARCHAR(500)	NOT NULL	TextArea	Non-Empty, Length < 500	More About Student	



Student Academic Detail Table

Attributes	Data-Type	Constraints	Control	Validations	Description	
stuEmail	Foreign Key> Login table					
College_University_Name	VARCHAR(300)	NOT NULL	Text-Field	Non-Empty	Student college University Name	
College_Name	VARCHAR(300)	NOT NULL	Text-Field	Non-Empty	Student college School Name	
StuCourse	ENUM('BBA', 'MBA', 'BCA', 'MCA', 'BE', 'ME')	NOT NULL	SELECT	NON-EMPTY	Student College Course	
College_Aggregate	ENUM('A', 'B', 'C', 'D')	NOT NULL	Select	Non-Empty	Student College Aggregate	
College_Start_Pass_Year	VARCHAR(15)	NOT NULL	Text-Field	Non-Empty	Student college Start Year	
12th_University_Name	VARCHAR(300)	NOT NULL	Text-Field	Non-Empty	Student 12th University Name	
12th_College_Name	VARCHAR(300)	NOT NULL	Text-Field	Non-Empty	Student 12th School Name	
12th_Grade	ENUM('A', 'B', 'C', 'D')	NOT NULL	Select	Non-Empty	Student 12th Grade	
12th_Start_Pass_Year	VARCHAR(15)	NOT NULL	Text-Field	Non-Empty	Student 12th Start Year	
10th_University_Name	VARCHAR(300)	NOT NULL	Text-Field	Non-Empty	Student 10th University Name	
10th_School_Name	VARCHAR(300)	NOT NULL	Text-Field	Non-Empty	Student 10th School Name	
10th_Grade	ENUM('A', 'B', 'C', 'D')	NOT NULL	Select	Non-Empty	Student 10th Grade	
10th_Start_Pass_Year	VARCHAR(15)	NOT NULL	Text-Field	Non-Empty	Student 10th Start Year	



Skills Table

Attributes	Data- Type	Constraints	Control	Validations	Description	
stuEmail	Foreign Key> Login table					
Accounting	INT	NOT NULL	Type Number-field	Required, Range (1 to 100)	Accounting Skills (%)	
Excel	INT	NOT NULL	Type Number-field	Required, Range (1 to 100)	Excel Skills (%)	
Tally	INT	NOT NULL	Type Number-field	Required, Range (1 to 100)	Tally Skills (%)	
Marketing	INT	NOT NULL	Type Number-field	Required, Range (1 to 100)	Marketing Skills (%)	
Management	INT	NOT NULL	Type Number-field	Required, Range (1 to 100)	Management Skills (%)	
Analyst	INT	NOT NULL	Type Number-field	Required, Range (1 to 100)	Analyst Skills (%)	
HTML	INT	NOT NULL	Type Number-field	Required, Range (1 to 100)	HTML Skills (%)	
CSS	INT	NOT NULL	Type Number-field	Required, Range (1 to 100)	CSS Skills (%)	
JavaScript	INT	NOT NULL	Type Number-field	Required, Range (1 to 100)	JavaScript Skills (%)	
С	INT	NOT NULL	Type Number-field	Required, Range (1 to 100)	C Programming Skills (%)	
СРР	INT	NOT NULL	Type Number-field	Required, Range (1 to 100)	CPP Programming Skills (%)	
Java	INT	NOT NULL	Type Number-field	Required, Range (1 to 100)	Java Programming Skills (%)	
Python	INT	NOT NULL	Type Number-field	Required, Range (1 to 100)	Python Skills (%)	
PHP	INT	NOT NULL	Type Number-field	Required, Range (1 to 100)	PHP Skills (%)	
Communication	INT	NOT NULL	Type Number-field	Required, Range (1 to 100)	Communication Skills (%)	
Teamwork	INT	NOT NULL	Type Number-field	Required, Range (1 to 100)	Teamwork Skills (%)	
Perseverance	INT	NOT NULL	Type Number-field	Required, Range (1 to 100)	Perseverance Skills (%)	
Problem Solving	INT	NOT NULL	Type Number-field	Required, Range (1 to 100)	Problem Solving Skills (%)	
Time Management	INT	NOT NULL	Type Number-field	Required, Range (1 to 100)	Time Management Skills (%)	
Agility	INT	NOT NULL	Type Number-field	Required, Range (1 to 100)	Agility Skills (%)	



Student Achievements Table

Attributes	Data-Type	Constraints	Control	Validations	Description	
stuEmail	Foreign Key> Login table					
Achievement1	VARCHAR(1000)	NOT NULL	Textarea	Non-Empty, Length < 1000	Achievement 1 Detail	
Achievement2	VARCHAR(1000)	NOT NULL	Textarea	Non-Empty, Length < 1000	Achievement 2 Detail	
Achievement3	VARCHAR(1000)	NOT NULL	Textarea	Non-Empty, Length < 1000	Achievement 3 Detail	
Achievement4	VARCHAR(1000)	NOT NULL	Textarea	Non-Empty, Length < 1000	Achievement 4 Detail	
Achievement5	VARCHAR(1000)	NOT NULL	Textarea	Non-Empty, Length < 1000	Achievement 5 Detail	

Student Project Experience Table

Attributes	Data-Type	Constraints	Control	Validations	Description	
stuEmail	Foreign Key> Login table					
Project1Name	VARCHAR(500)	NOT NULL	Type text field	Non-Empty, Length < 500	Project Name	
Project1StartTime	VARCHAR(20)	NOT NULL	Type Month field	Non-Empty	Project Start Time	
Project1EndTime	VARCHAR(20)	NOT NULL	Type Month field	Non-Empty	Project End Time	
Project1Description	VARCHAR(1000)	NOT NULL	Textarea	Non-Empty	Project Description	
Project2Name	VARCHAR(500)	NOT NULL	Type text field	Non-Empty, Length < 500	Project Name	
Project2StartTime	VARCHAR(20)	NOT NULL	Type Month field	Non-Empty	Project Start Time	
Project2EndTime	VARCHAR(20)	NOT NULL	Type Month field	Non-Empty	Project End Time	
Project2Description	VARCHAR(1000)	NOT NULL	Textarea	Non-Empty	Project Description	



Job Opportunity Table

Attributes	Data-Type	Constraints	Control	Validations	Description
Oppld	INT	PRIMARY KEY	None	Non-Empty	Opportunity Id
OppPublishDate	VARCHAR(20)	NOT NULL	Type Date	Non-Empty	Date when job Opp published
OppEndDate	VARCHAR(20)	NOT NULL	None, Auto Calculate	Non-Empty	Opp End Date
Job Role	VARCHAR(500)	NOT NULL	Type Text Field	Non-Empty	Job Role Detail
Course Eligible	VARCHAR(500)	NOT NULL	Select Drop Down	Non-Empty, Multiple Select	Course Eligible detail for opp
Company Name	VARCHAR(500)	NOT NULL	Type Text Field	Non-Empty, Length < 500	Company Name Detail
Job Location	VARCHAR(500)	NOT NULL	Select Drop Down	Non-Empty, Multiple Select	Job Location Detail
Job Type	ENUM('Full- Time', 'Part- Time')	NOT NULL	Select Drop Down	Non-Empty	Job Type Detail
Package (CTC)	VARCHAR(20)	NOT NULL	Type Text Field	Non-Empty, Pattern validation	Yearly Package detail
Job Description	VARCHAR(1000)	NOT NULL	Textarea	Non-Empty, Length < 1000	Job Description Detail
Opp Link	VARCHAR(2050)	NOT NULL	Type Text Field	Non-Empty	Opp Link for more detail
Opp Status	ENUM('Active', 'Inactive')	NOT NULL, DEFAULT 'Active'	Select Drop Down	Non-Empty	Opp Status detail



Student Application Status Table

Attributes	Data-Type	Constraints	Control	Validations	Description	
stuEmail		Famaign Koy N	ain Tabla () lab ()	manustrusita (Tabla		
Oppld	Foreign Key> Login Table & Job Opportunity Table					
Application Status	ENUM('No- Action', 'Applied', 'Not- Interested')	NOT NULL, DEFAULT 'No- Action'	Select Drop Down	Non-Empty	Status whether student applied or not-interested	

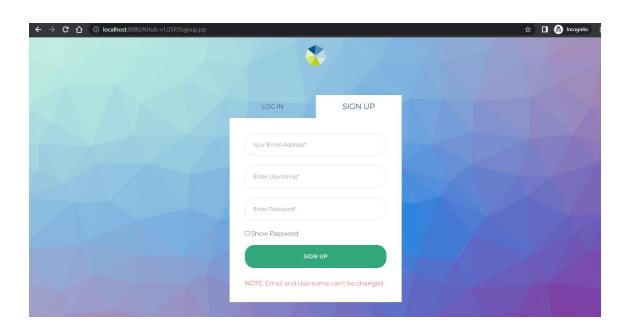


User Interface Design

KHub Home Page

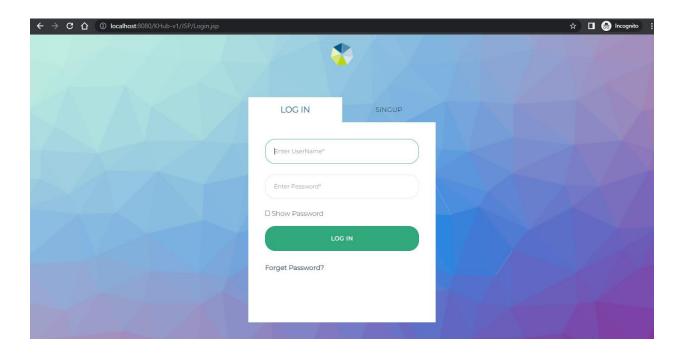


Sign Up Page



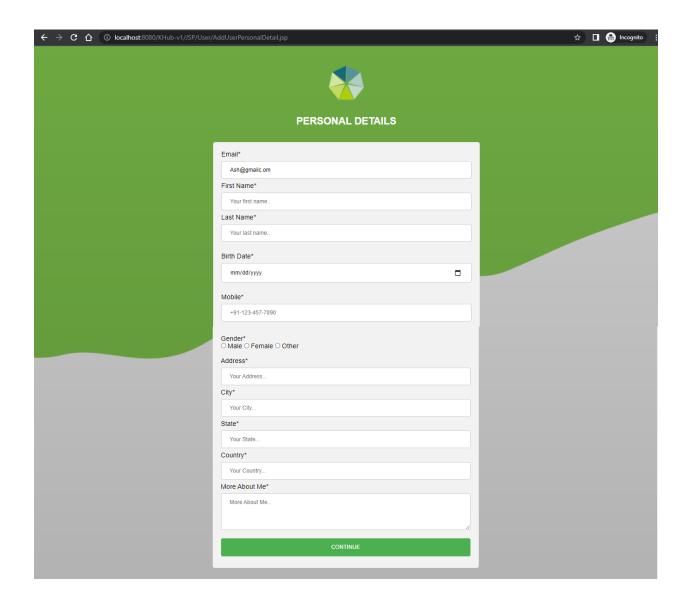


Login Page



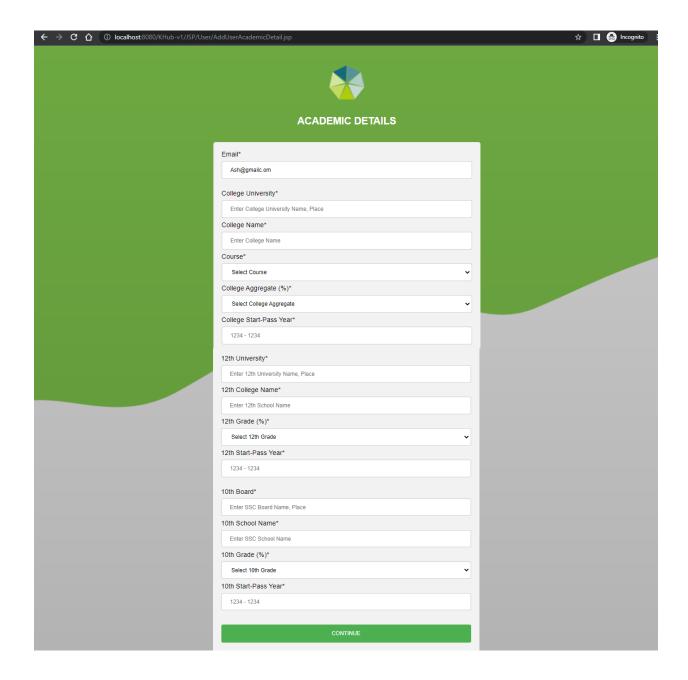


User - Add Personal Detail



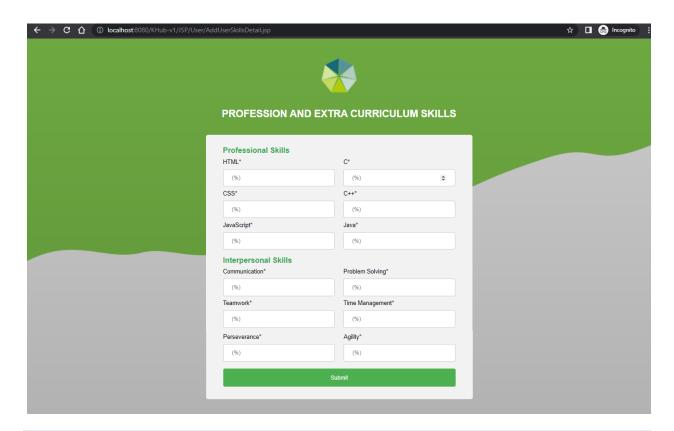


User - Add Academic Details

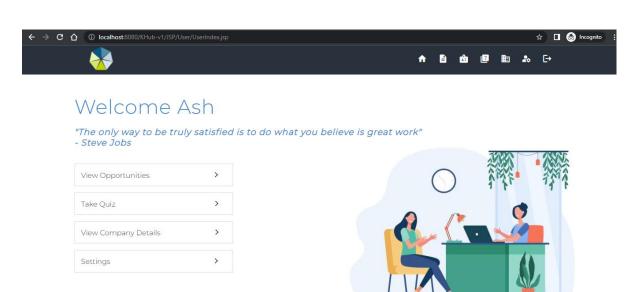




User - Add Skills Details

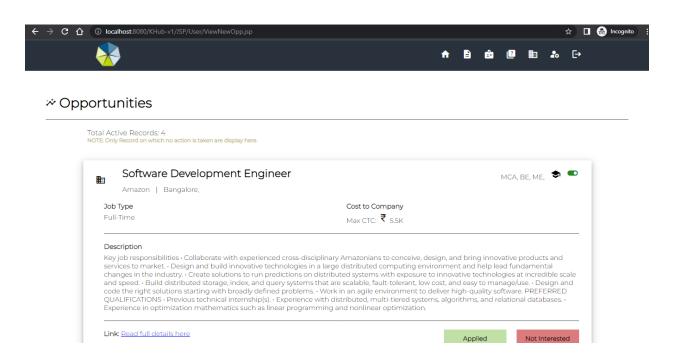


User Home Page

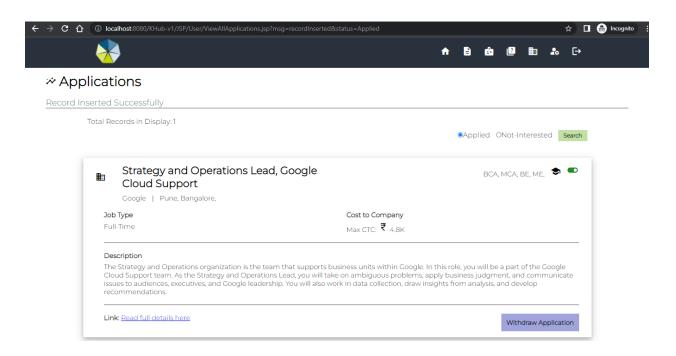




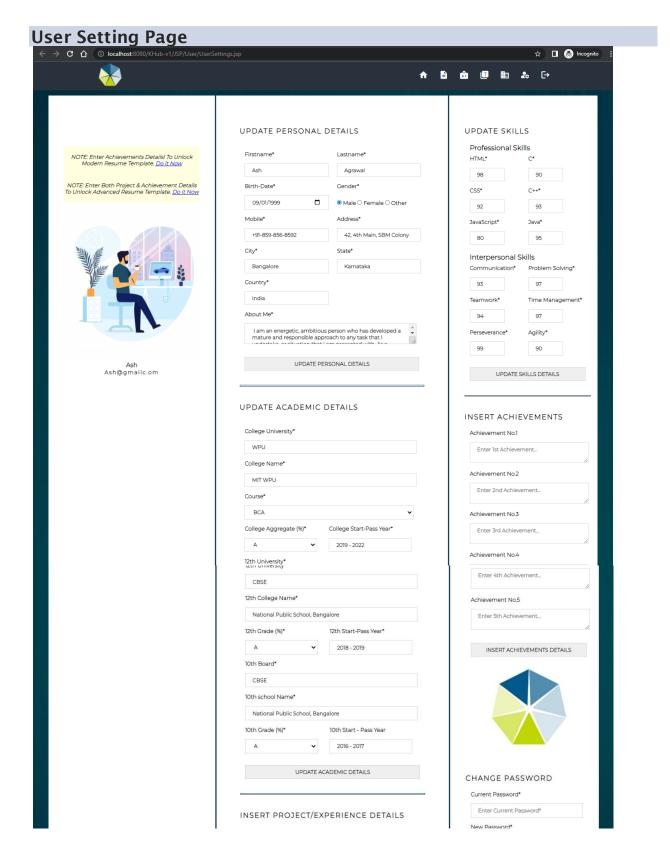
User - View Opportunities



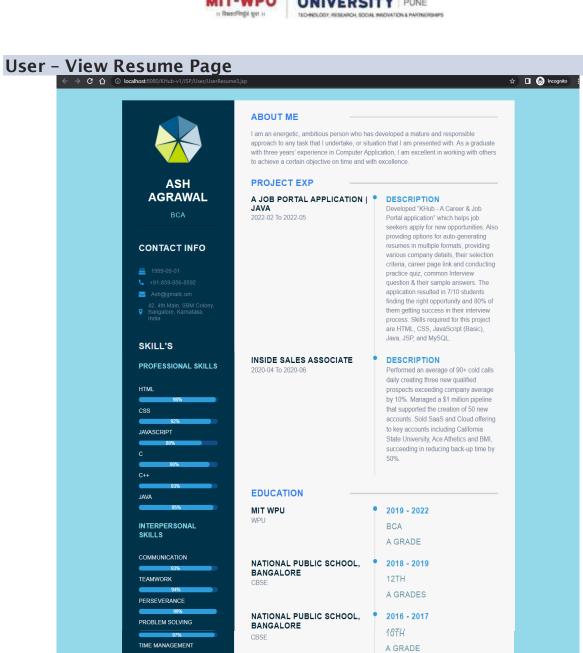
User - View Application Details











ACHIEVEMENTS

Converted data into actionable insights by predicting and modeling future

outcomes, that increased revenue by 10% last year.

Consulted in the redesign of a company's website, resulting in a 25% increase in traffic.

Led and managed a team of six in developing new financial management software.

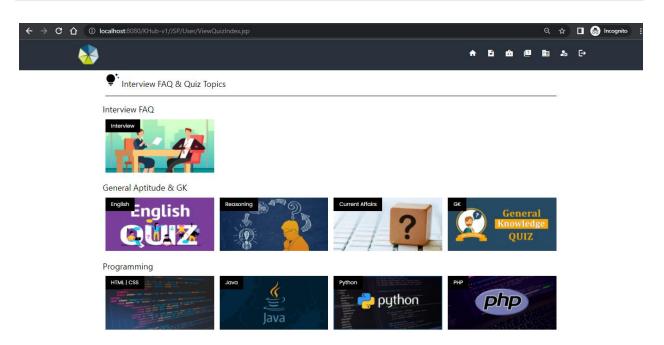
Developed company procedures and guidelines for data analysis and security that increased efficiency by 30% in the first six months after implementation.

Created, maintained, and monitored the entire cloud infrastructure of Company X, while working on 20+ micro services for 5 clients.

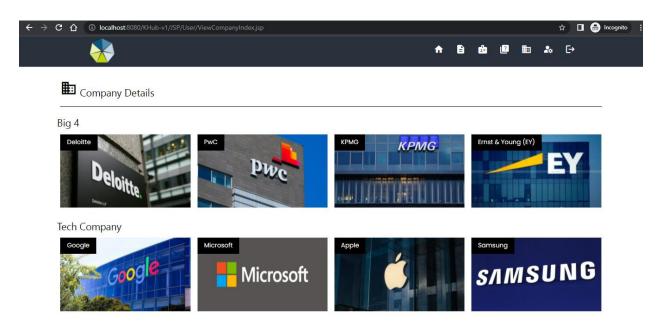
AGILITY



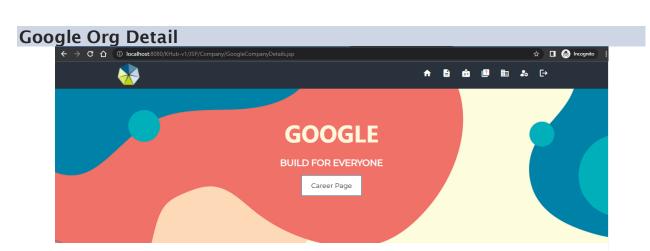
User - FAQ & Quiz Index



Organization Index





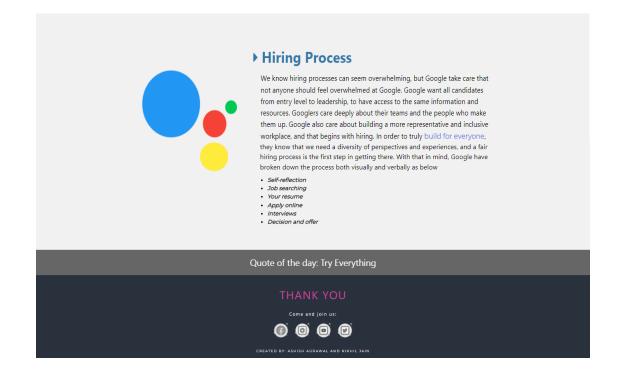


▶ About

Google LLC is an American multinational technology company that specializes in Internet-related services and products, which include a search engine, online advertising technologies, cloud computing, software, and hardware.

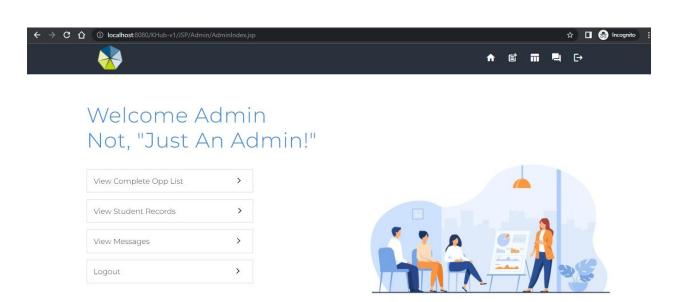
Google is proudly known to be an equal opportunity work-place and is an affirmative action employer. Google is committed to equal employment opportunity regardless of race, color, ancestry, religion, national origin, age, citizenship, marital status, disability, gender identity or Veteran status. It also consider qualified applicants regardless of criminal histories, consistent with legal requirements.



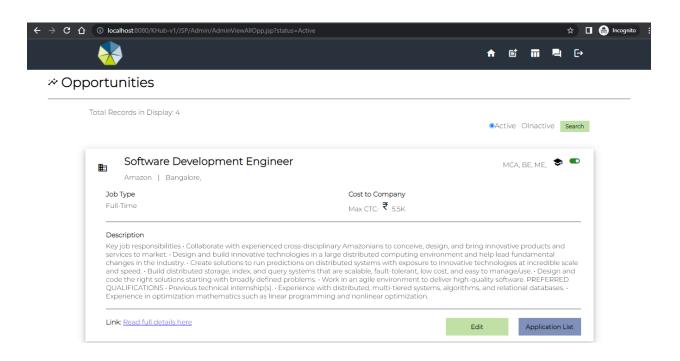




Admin - Home Page

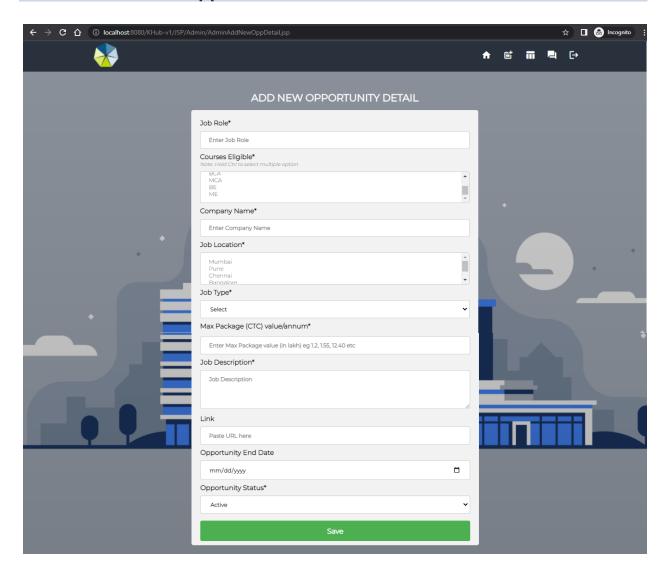


Admin - View Added Opportunities



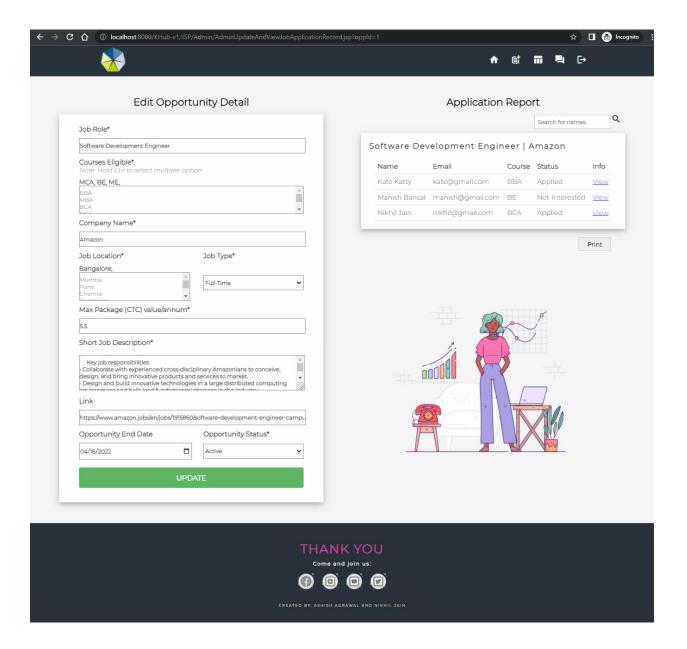


Admin - Add New Opportunities





Admin - Edit and View Application List

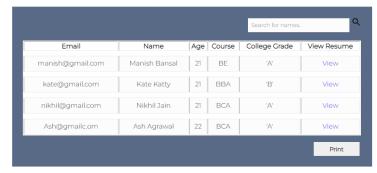




Admin - View User Record



All Student Records









Future Enhancement

As this is an infant level project it has limited functionalities, the future enhancements however will be integrating additional features into the project to make it more user friendly, some of them are as follows:-

- Minor bugs and errors will be fixed in the future.
- We can add option to upload profile image for student.
- We can add option to upload resume for student.
- We can add Chat Box feature for both student and admin.
- We can add feature for admin to schedule opportunity in advanced.
- We can add advanced filter option for admin to search records.

The above mentioned points are the enhancements which can be done to increase the applicability and usage of this application. In the last we would like to thanks all the persons involved in the development of the system directly or indirectly. We hope that the project will serve its purpose for which it is develop there by underlining success of process.