DataRitz Technologies
Enhancing Technology Experience

Resume Builder

Project-Based Internship 2020 Report

Submitted

To

DataRitz Technologies

Duration 6 weeks

By

Alankar Saxena	Atul Kumar	Pragati Gupta
1803211005	1803210036	1803213111

ABES Engineering College

APJ Abdul Kalam Technical University

Under the guidance of
Mr. Harivans Pratap Singh

DataRitz Technologies
Enhancing Technology Experience

CERTIFICATE

This is to certify that Project Report entitled “Resume Builder” which is submitted by Alankar Saxena, Atul Kumar and Pragati Gupta in partial fulfillment of the requirement for the summer internship of Software Testing for QA & QC Profile in Department of Computer Science of ABES Engineering College, is a record of the candidate own work carried out by him under my/our supervision.

Supervisor

Date

ACKNOWLEDGEMENT

It gives us a great sense of pleasure to present the report of the Project Based Internship 2020 undertaken during B. Tech 2nd year. We owe special debt of gratitude to Mr. Harivans Pratap Singh, Lead Technical Architect Quality Assurance, DataRitz Technologies for his constant support and guidance throughout the course of our work. His constant motivation has been a constant source of inspiration for us. It is only his cognizant efforts that our endeavors have seen light of the day.

We also take the opportunity to acknowledge the contribution of team members of DataRitz Technologies for their full support and assistance during the development of the project.

We also do not like to miss the opportunity to acknowledge the motivation of Computer Science Department, ABESEC to provide us the opportunity to undergo training at DataRitz Technologies.

Signature:

Name : Alankar Saxena, Atul Kumar, Pragati Gupta

Roll No.: 1803211005, 1803210036, 1803213111

Date :

Project Summary

Region/Unit	DataRitz Technologies
Location	Ghaziabad
Program	DataRitz Technologies. DRSI – 003
Project Number	DataRitz Technologies. RB – 007, version 1
Project Description	This project is all about building a resume for the students of ABES EC online just by filling their details.

Document Control

Prepared by:	Alankar Saxena
Title:	Resume Builder
College:	ABES Engineering College
Department:	Computer Science
Location:	Ghaziabad
Version date:	7 June, 20202
Status:	Initial Draft

Version history

Version no.	Date	Changed by	Nature of amendment
1.0	**7 June, 2020**	**All team members**	**Initial release**

Endorsement and Approval

Project Customer

I approve the business requirements specifications in this document.

Name	Ms. Rajshree Goel		
Position	Manager and Strategy planning, ABESEC		
Signature		Date	

The following officers have **endorsed** this document

Project Sponsor

Name	Mr. Sachin Goel		
Position	Vice President, ABESEC		
Signature		Date	

Project Manager (= Component Project Customer)

Name	Mr. Harivans Pratap Singh		
Position	Lead Technical Architect		
Signature		Date	

Component Project Sponsor

I accept the business requirements specifications in this document.

Name	Dr B P Sharma		
Position	Country Head - Delivery		
Signature		Date	
Comments			

The following officers have **endorsed** this document

Component Program Manager

Name	Mr. Gaurav Kansal		
Position	Chief Operating Officer		
Signature		Date	

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CHAPTER 1

INTRODUCTION

1.1 Aim of the Project:

The "Resume Builder" has been developed to override the problems prevailing in the practicing manual system.

This software is supported to eliminate and, in some cases, reduce the hardships faced by this existing system.

Moreover, this system is designed for the particular need of the company to carry out operations in a smooth and effective manner.

The application is reduced as much as possible to avoid errors while entering the data. It is user friendly. Online Resume Builder as described can lead to error free, secure, reliable and fast management system. Thus, it will help organizations in better utilization of resources.

1.2 Objective of the Project:

The main objective of the Project on Resume Builder is to manage the details of Resume of a jobseeker. It manages all the information about Resume. It stores personal information, career objective, academic credentials, other qualifications, training and certifications, skills and achievements, etc. The project is totally built at administrative end and thus only the administrator is guaranteed the access.

The purpose of the project is to build an application program to reduce the manual work for managing the Resume.

It tracks all the details about the skills of the jobseeker. It tracks all the information of job, individual, skill etc.

It increases the efficiency of managing he resume. It tracks all the information about the individual and skills.

1.3 Scope of the Project:

It may help in collecting perfect management in details. In a very short time, the collection will be obvious, simple and sensible. It will help a person to know the management of passed year perfectly and vividly. It also helps in current all works relative to Online Resume Builder.

It will also reduce the cost of collecting the management and collection procedure will go on smoothly.

Our project aims at process automation i.e. we have tried to computerize various processes of Resume Builder.

- In computer system, it is not necessary to create the manifest but we can directly print it, which saves our time.
- To utilize resources in an efficient manner by increasing their productivity through automation.
- In computer system the person has to fill various forms and number of copies of the forms can be easily generated at a time.
- It satisfies the user requirement.
- It is easy to operate.
- Have a good user interface.
- Be easy to understand by the user and operator.

CHAPTER 2

FEASIBILITY STUDY

After doing the project Resume Builder, study and analyzing all the existing or required functionalities of the system, the next task is to do feasibility study for the project. All projects are feasible- given unlimited resources and infinite time.

Feasibility study includes considerations of all possible ways to provide a solution to the given problem.

The proposed solution should satisfy all the user requirements and should be flexible enough so that future changes can be
easily done based on the future upcoming requirement.

2.1 Technical Feasibility:

It is concerned with specifying equipment and software that will successfully support the task required. This include the study of function,
performance, response time and constraints that may affect the ability to achieve an acceptable system. For this feasibility study, we studied complete functionality to be provided in the system, as described in the System Requirement Specification (SRS), and checked if everything was possible using different type of frontend and backend platforms.

2.2 Financial Feasibility:

This is a very important aspect to be considered while developing a project. We decided the technology based on minimum possible
cost factor.

- All hardware and software cost have to be borne by the organization.
- Overall, we have estimated that the benefits the organization is going to receive from the proposed system will surely overcome the initial costs and the later on running cost for system.

2.3 Market Feasibility:

Market feasibility determines the depth and condition of a particular real estate market and its ability to support a particular development.

In simple words it determines whether a product or an application or service can sustain in a specific market or not as well as whether it is capable of generating financial surplus for the firm or not.

This project is the one which not only caters to the needs of present prospective users or jobseekers but also maintains a stable demand in the future.

A feasible product enhances the financial surplus of a firm.

2.4 Social Feasibility:

People are inherently resistant to change and computers have been known to facilitate change.

An estimate should be made of how strong a reaction the user staff is likely to have towards the development of computerized system.

Social impact analysis greatly reduces the overall risks of the project, as it helps to reduce resistance, strengthens general support, and allows for a more comprehensive understanding of the costs and benefits of the project.

However, social impact analysis can be expensive and time consuming. At a minimum, our projects demand a review of project data at the Appraisal Phase, so as to identify if material social impacts exist.
If it does, a full social impact analysis would be conducted.

CHAPTER 3

REQUIREMENT ANALYSIS REPORT

3.1 Requirement Gathering:

The following are some of the well-known requirements gathering techniques are used in this project −

Brainstorming

Brainstorming is used in requirement gathering to get as many ideas as possible from a group of people. Generally used to identify possible solutions to problems, and clarify details of opportunities. It includes ideas of all the team member.

Document Analysis

Reviewing the documentation of an existing system can help when creating AS–IS process document, as well as driving gap analysis for scoping of migration project. Various preexisting documents related to resume builder has been read while identifying the accurate requirement for the project.

Focus Group

A focus group is a gathering of people who are representative of the users or customers of a product to get feedback. The feedback can be gathered about needs/opportunities/ problems to identify requirements, or can be gathered to validate and refine already elicited requirements. This form of market research is distinct from brainstorming in that it is a managed process with specific participants.

feedback of various industry representative, college student, teachers, job providers has been taken into the consideration. For e.g., co-curriculum activity, any extra certificate other than academic has been added on their recommendation.

Interface analysis

Interfaces for a software product can be human or machine. Integration with external systems and devices is just another interface. User centric design approaches are very effective at making sure that we create usable software. Interface analysis – reviewing the touch points with other external systems is important to make sure we don't overlook requirements that aren't immediately visible to users.

In the above regard our team concluded that, simple and straight design is the best. developer is taken this into consideration

Interview

Interviews of stakeholders and users are critical to creating the great software. Without understanding the goals and expectations of the users and stakeholders, we are very unlikely to satisfy them. We also have to recognize the perspective of each interviewee, so that, we can properly weigh and address their inputs.

Observation

By observing users, an analyst can identify a process flow, steps, pain points and opportunities for improvement. Observations can be passive or active (asking questions while observing). Passive observation is better for getting feedback on a prototype (to refine requirements), where active observation is more effective at getting an understanding of an existing business process. Either approach can be used.

Prototyping

Prototyping is a relatively modern technique for gathering requirements. In this approach, you gather preliminary requirements that you use to build an initial version of the solution - a prototype. You show this to the client, who then gives you additional requirements. You change the application and cycle around with the client again. This repetitive process continues until the product meets the critical mass of business needs or for an agreed number of iterations.

Reverse Engineering

When a migration project does not have access to sufficient documentation of the existing system, reverse engineering will identify what the system does. It will not identify what the system should do, and will not identify when the system does the wrong thing.

Survey/Questionnaire

When collecting information from many people – too many to interview with budget and time constraints – a survey or questionnaire can be used. The survey can force users to select from choices, rate something ("Agree Strongly, agree…"), or have open ended questions allowing free-form responses. Survey design is hard – questions can bias the respondents.

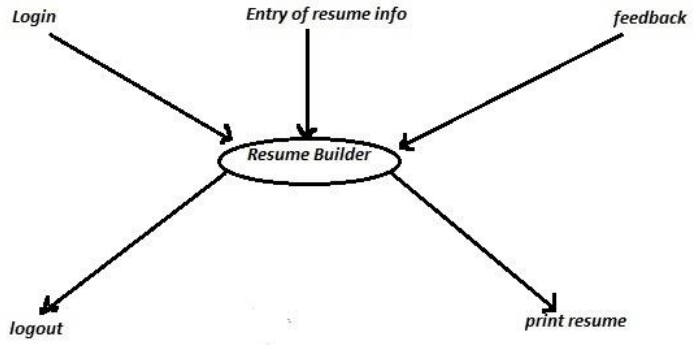
In this case college student and teacher helped a lot in survey.

3.2 Requirement Analysis:

Requirement analysis is significant and essential activity after elicitation. We analyze, refine, and scrutinize the gathered requirements to make consistent and unambiguous requirements. This activity reviews all requirements and may provide a graphical view of the entire system.
Here, we may also use the interaction with the customer to clarify points of confusion and to understand which requirements are more important than others

The various steps of requirement analysis are:

Draw the context diagram: The context diagram is a simple model that defines the boundaries and interfaces of the proposed systems with the external world. It identifies the entities outside the proposed system that interact with the system



Context Diagram

Development of a Prototype : One effective way to find out what the customer wants is to construct a prototype, something that looks and preferably acts as part of the system they say they want.
We can use their feedback to modify the prototype until the customer is satisfied continuously. Hence, the prototype helps the client to visualize the proposed system and increase the understanding of the requirements. When developers and users are not sure about some of the elements, a prototype may help both the parties to take a final decision.
The prototype should be built quickly and at a relatively low cost. Hence it will always have limitations and would not be acceptable in the final system. This is an optional activity.
In resume builder, first different templates, font, UI, etc. are shown to the costumer as a prototype.

Model the requirements: This process usually consists of various graphical representations of the functions, data entities, external entities, and the relationships between them. The graphical view may help to find incorrect, inconsistent, missing, and superfluous requirements. Such models include the Data Flow diagram, Entity-Relationship diagram, Data Dictionaries, State-transition diagrams, etc.
All these diagrams are attached in the documents later.

Finalize the requirements: After modeling the requirements, we will have a better understanding of the system behavior. The inconsistencies and ambiguities have been identified and corrected. The flow of data amongst various modules has been analyzed. Elicitation and analyze activities have provided better insight into the system. Now we finalize the analyzed requirements, and the next step is to document these requirements in a prescribed format

3.3 Requirement Specification:

The production of the requirements stage of the software development process is Software Requirements Specifications (SRS) (also called a requirements document). This report lays a foundation for software engineering activities and is constructing when entire requirements are elicited and analyzed.

SDLC used: After analyzing all the requirement it is clear that waterfall model will be used in developing this software. As Requirements are very clear and fixed. - There are no ambiguous requirements. - Ample resources with required expertise are available freely, organization has experience of similar projects. It is good to use this model as the technology is well understood and also the project is small.

User side: App should be easy to use, i.e., less complex, have all must functionality, fast and trusted in term of data.

Developer side: Affordable to build, have required skill and tech support.

3.4 Stakeholder detail and its Requirements:

Stakeholder Impacts

A. Internal

Stakeholder	Impact/Interest in the project
fresher graduate	section of internship, other activity

B. External

Stakeholder	Impact/Interest in the project
Professionals	speciality, experience section

3.5 Functional requirements (FR):

This subsection contains the requirements for the resume builder. Functional requirements from here, are then refined into use case diagrams and to sequence diagram to best capture the functional requirements of the system.

Authenticate whether user is part of ABESEC (FR-1):

- User needs to be a part of ABESEC to use resume builder.
- Authentication will be done by using the user's admission number.

Take all the details from the user (FR-2):

- The user will be proving all the details in these fields on the portal :
    - Personal information
    - Career objective
    - Technical skills
    - Academic qualifications
    - Training and Certifications
    - Skills and Achievements
    - Co-Curricular Activities
    - References

Viewing the Resume (FR-3):

- User should be able to view the resume after entering all the details.

Printing the Resume (FR-4):

- The user should be provided a print option to print the resume after the completion.

Change password feature (FR-5):

- There should be a feature to change the password

User shall be able to modify the data any time (FR-6):

- The user shall be provided a feature to modify the data at any point of time, just he/she has to login again.

Non-Functional Requirements (NFR):

Performance (NFR-1):

- The resume builder shall be based on web and has to be run from a webserver.
- The product shall take initial load time depending on internet connection strength which also depends on the media from which the product is run.
- The performance shall depend upon the user's system hardware.

Security (NFR – 2)::

- The developer should think how will the forgotten passwords will be managed.
- The data should be entered by a valid user not from an invalid user.
- The data should not be coming from a different website e.g., CSRF, etc.
- The user's password should not be revealed on the web browser.
- The user's data should be stored in an efficient manner.
- Same user should not be able to register with same email or username.

Reliability (NFR-3):

- The changes in the data that are made on the website should be saved once the user saves it.

Maintainability (NFR-4):

- In the worst case if the server got crashed or the software gets broken up then, it should be fixed as soon as possible.

Constraints (NFR-5):

- Limited characters for writing the career objective.
- The number of references should not be more than 2.

3.6 OPERATIONAL OR TECHNICAL REQUIREMENT NAME

Reference	OR001
Description	Purchased the domain: resume.abes.ac.in

Reference	OR002
Description	Hosting Server with the PHP server

Reference	OR003
Description	Connecting the database with the hosting server

Reference	OR004
Description	Addition of SSL or TLS certificate for security.

3.6.1 Acceptance Testing Requirements:

- Should be running on a web server.
- Needs to be robust.
- No data leakage should be there.
- User's data should be secure.
- Resume build must be with the same data as entered by the user.
- The resume should contain the logo of the college.
- Only college students are allowed to use this software.

3.6.2 Software requirements

- Web browsers:
  - Google Chrome
  - Mozilla Firefox
  - Opera
  - Internet Explorer 8 or above
- HTML
- CSS
- JavaScript
- PHP
- MySQL

3.6.3 Hardware requirements

- Computer system with minimum 512 MB Ram.
- System with a web browser to open the software.

3.6.4 Resource requirements

These are those requirements that are need to be build this project with proper functionality.

3.6.4.1 Internal Resource:

These are those resources that the organization already has before start of project.

- Laptops
- Developers
- Testers
- Software mentioned in the requirements

3.6.4.2 External Resource:

These are those resources that the organization does not have before starting of project and needs to be applied in the project.

- Purchasing the domain name
- Purchasing the database
- Getting the SSL or TLS certificate

3.6.5 Security requirements

- The developer should think how will the forgotten passwords will be managed.
- The data should be entered by a valid user not from an invalid user.
- The data should not be coming from a different website e.g., CSRF, etc.
- The user's password should not be revealed on the web browser.
- The user's data should be stored in an efficient manner.
- Same user should not be able to register with same email or username.
- SQL injection should not be applicable on the software.

3.6.6 Portability requirements

- The software should run on all kinds of web browsers.
- The software shall not be broken, when run on different operating system.

3.6.7 Legal requirements

- The company should have the authority of the college owner to make and run this software.
- The software should not break any laws by disrespecting anyone's emotions or any other thing that is against the law.

CHAPTER 4

4.1 Project Initiation Checklist

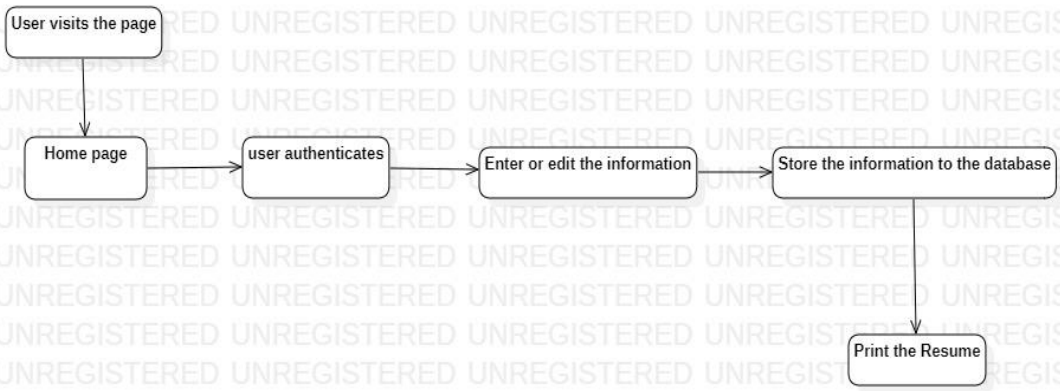
- Is the scope of the project clear?
  Yes
- Is the project funding approved?
  Yes
- Have all the stakeholders been identified?
  Yes
- Has a sponsor been identified?
  Yes
- Does the project contain 3rd Party or external resources?
  Yes
- Have you confirmed in writing the project delivery expectations (time and scope) with all the stakeholders?
  Yes
- Have all the project benefits been captured and are reasonable?
  Yes
- Are you aware of the process of getting the project approved?
  No
- Does the business case cover assumptions, dependencies, and constraints?
  Yes
- Do you need a risk assessment to be conducted?
  Yes
- Will the project costs be capitalized?
  Yes
- Do you have a high-level effort estimate for the project?
  Yes
- Are you supposed to use a standard template for the initiation document?
  Yes
- Has the project team been established or resources available to start the project?
  Yes
- Does the project need an approved business case to start work?
  Yes

4.2 Project Planning Checklist

- Have you organized a project kick-off meeting?
  Yes
- Does the project team need any training?
  Yes
- Are you comfortable with the skill level of the project team?
  Yes
- Do you need a project management plan?
  Yes
- Do you have enough contingency or buffer in budget and schedule?
  Yes
- Is there a vendor contract involved in the project?
  No
- Have all the project components been estimated?
  No
- Do you have a detailed project schedule drafted?
  Yes
- Do you need a work breakdown structure?
  Yes
- Have you created a baseline for the project plan?
  Yes
- Is the project team comfortable with the project schedule?
  Yes
- Do you have clearly defined the milestones for the project?
  Yes
- How do you plan to track project progress?
  Through Gantt Chart
- Have the team leave plans and public holidays been factored into the project plan?
  Yes
- Do you have a resource plan for the duration of the project?
  Yes
- Do you need to hire additional resources for the project? If yes, has the hiring process been kicked off?
  Yes, Yes
- Have you factored in the resourcing costs in the plan?
  Yes
- Are you aware of the SMEs required for the project?
  Yes
- Is your project schedule detailed enough for the project team to understand the tasks?
  Yes
- Is there a quality assurance plan for the project? Yes

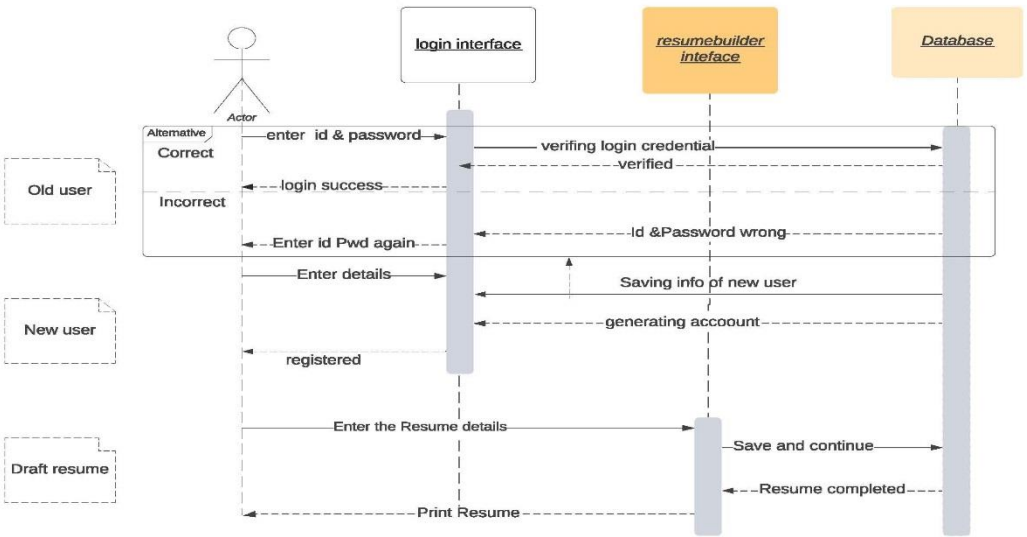
CHAPTER 5
SYSTEM DESIGN

5.1 High Level Design



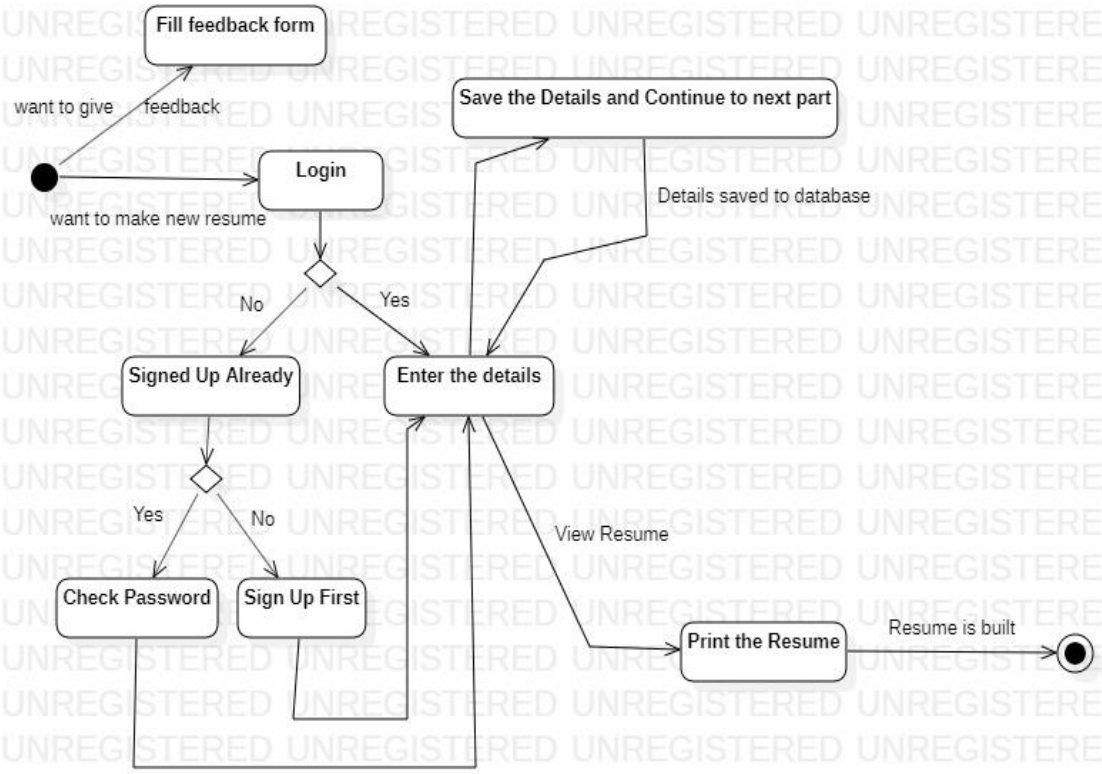
HIGH LEVEL DIAGRAM OF Resume Builder

5.2 Sequence Diagram



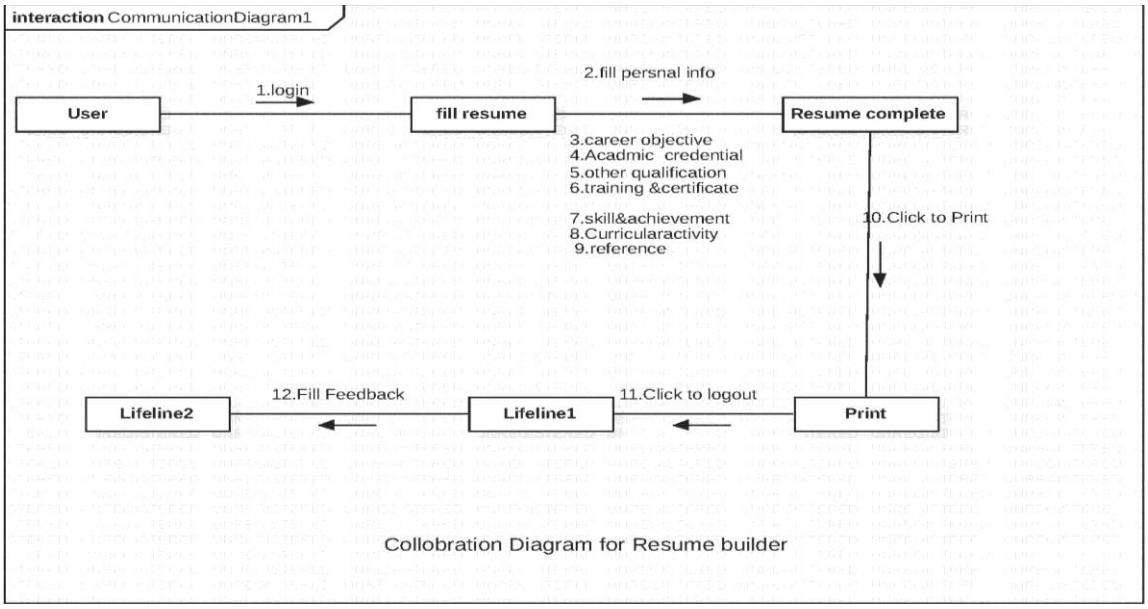
Sequence diagram for Resume builder

5.3 Activity Diagram



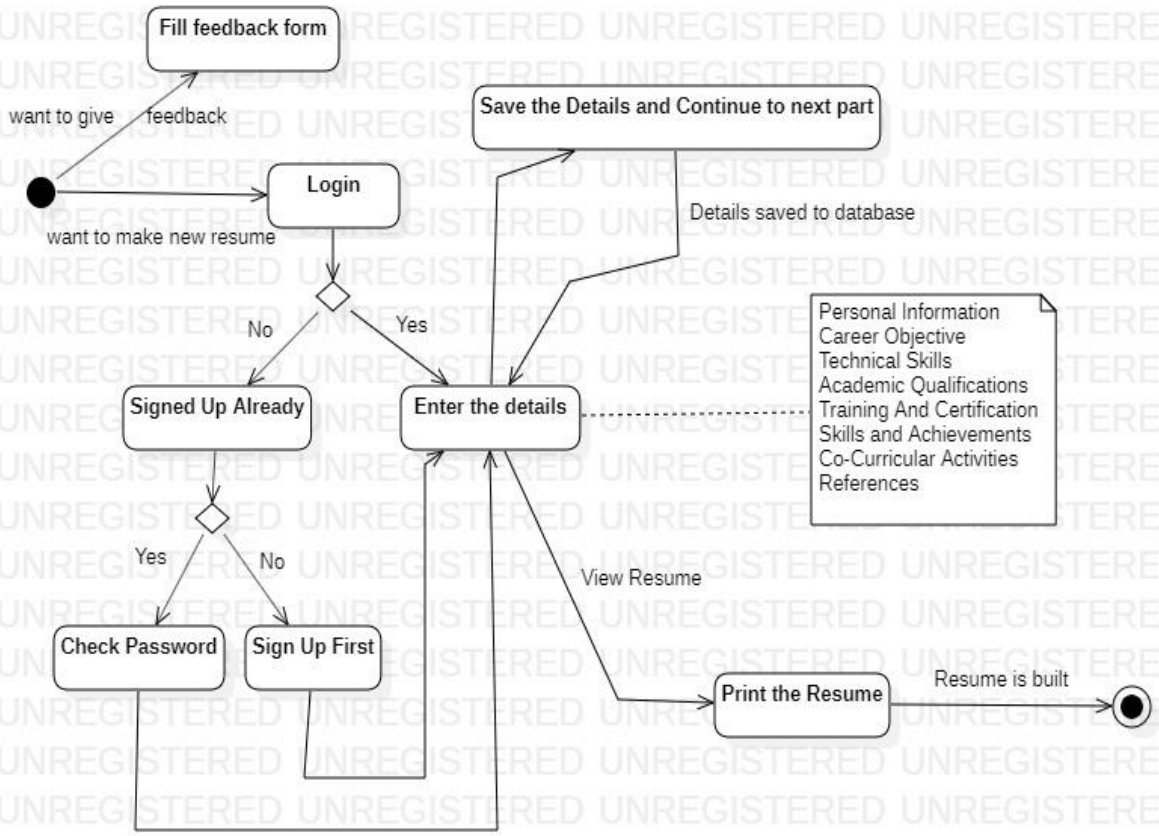
Activity Diagram for Resume Builder

5.4 Collaboration Diagram



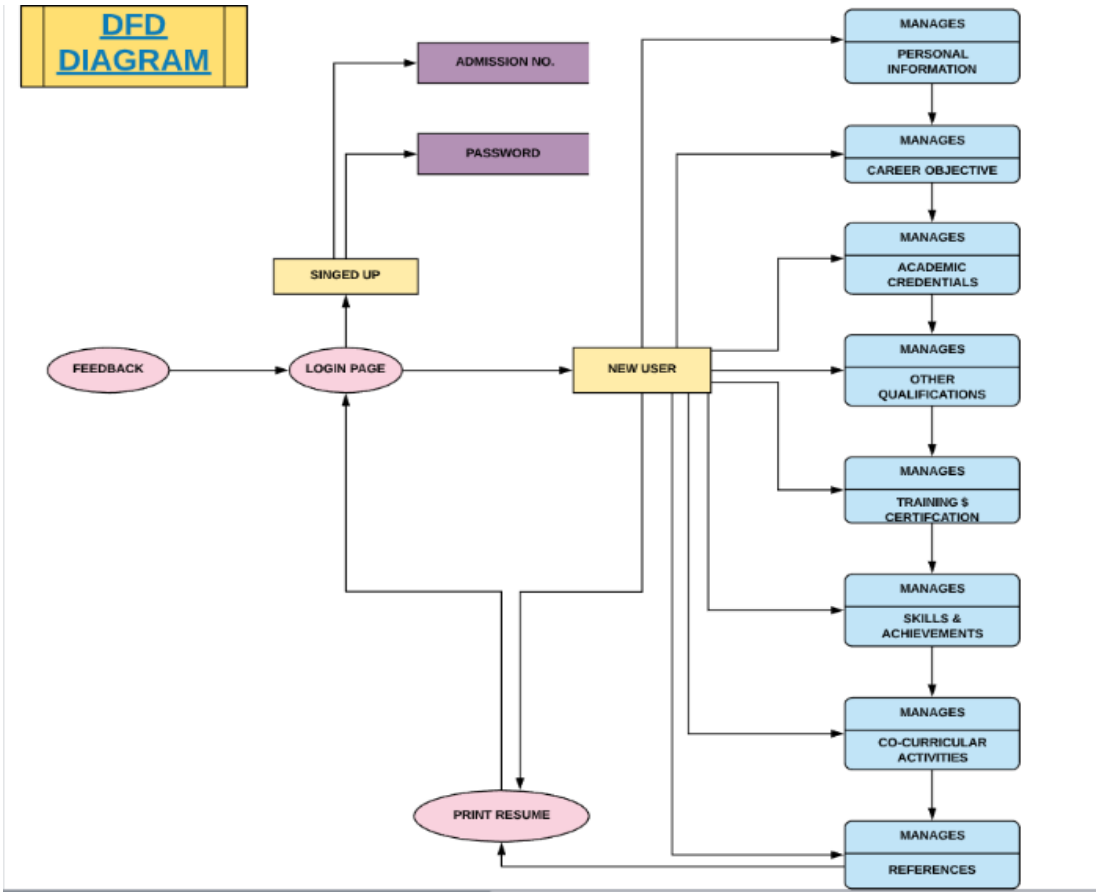
Collobration Diagram for Resume builder

5.5 State Diagram

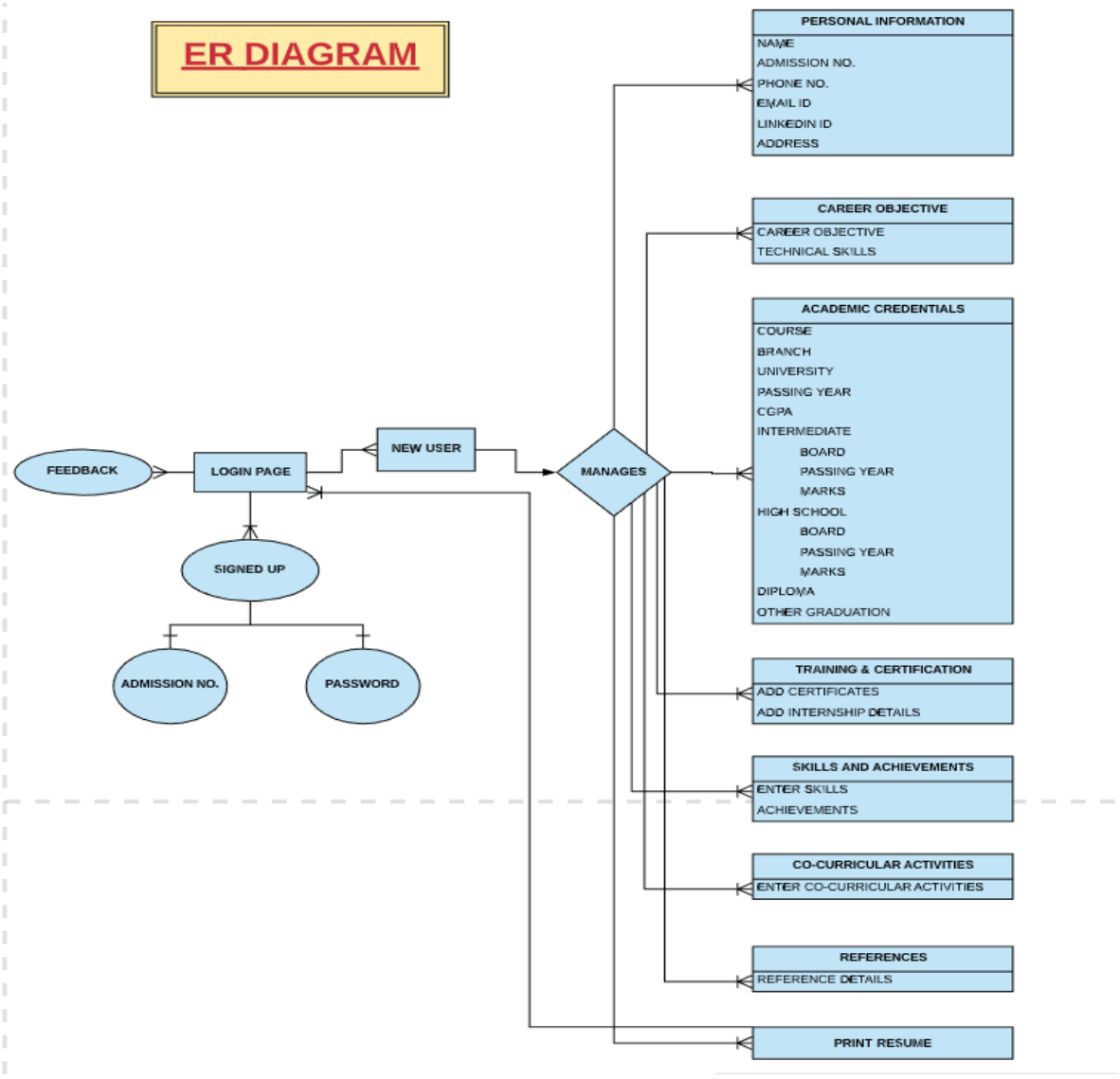


State Diagram for Resume Builder

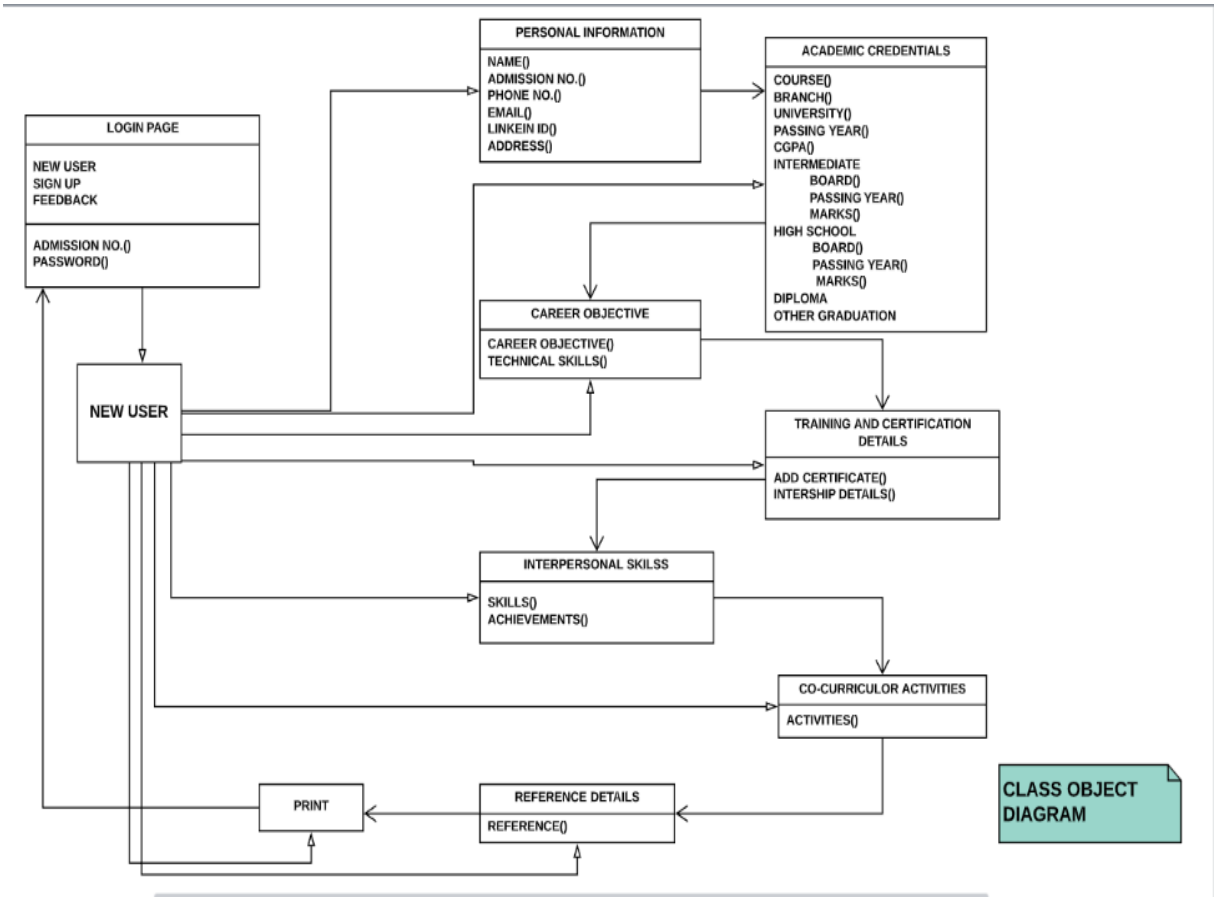
5.6 DFD Diagram



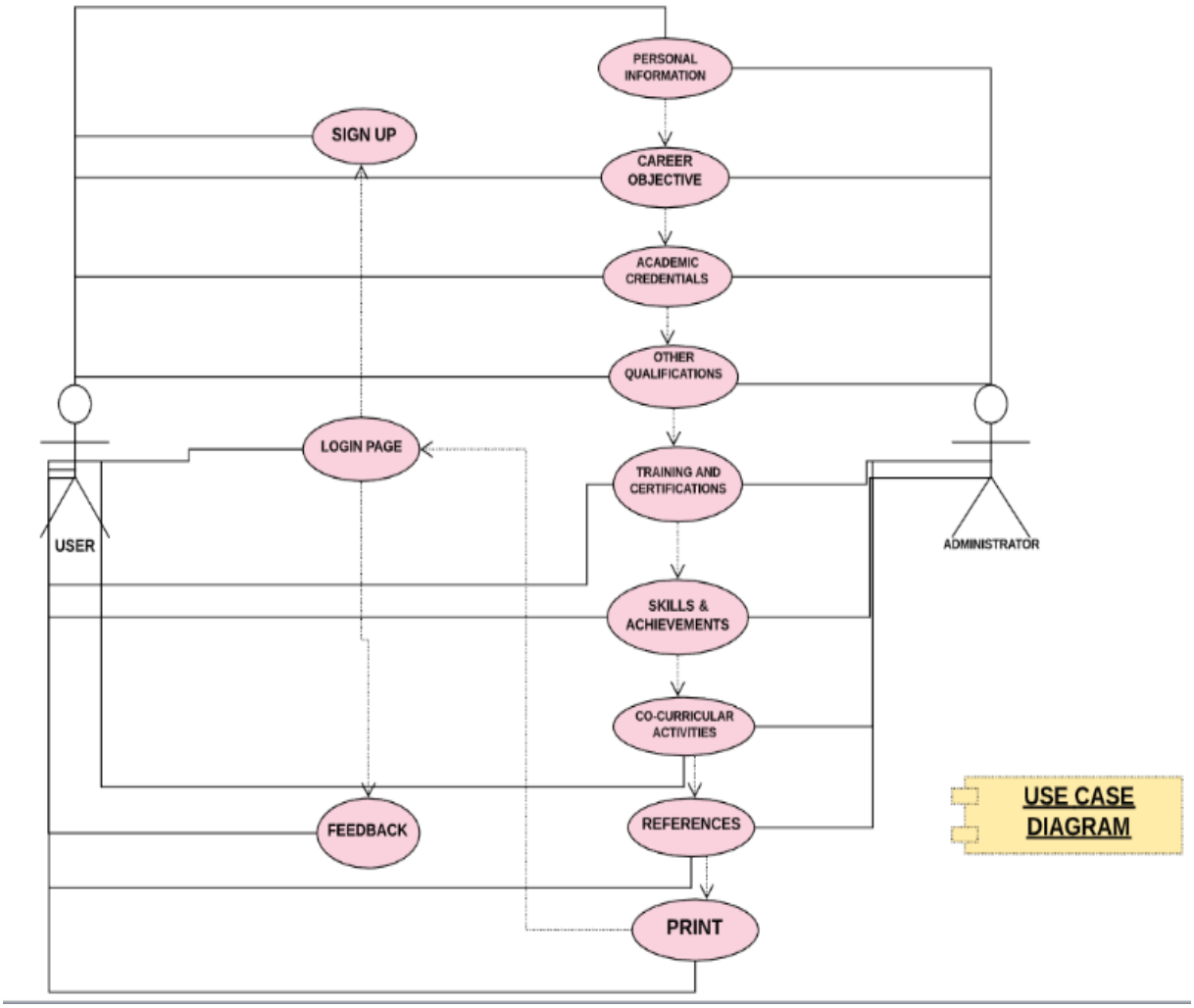
5.7 E-R Diagram



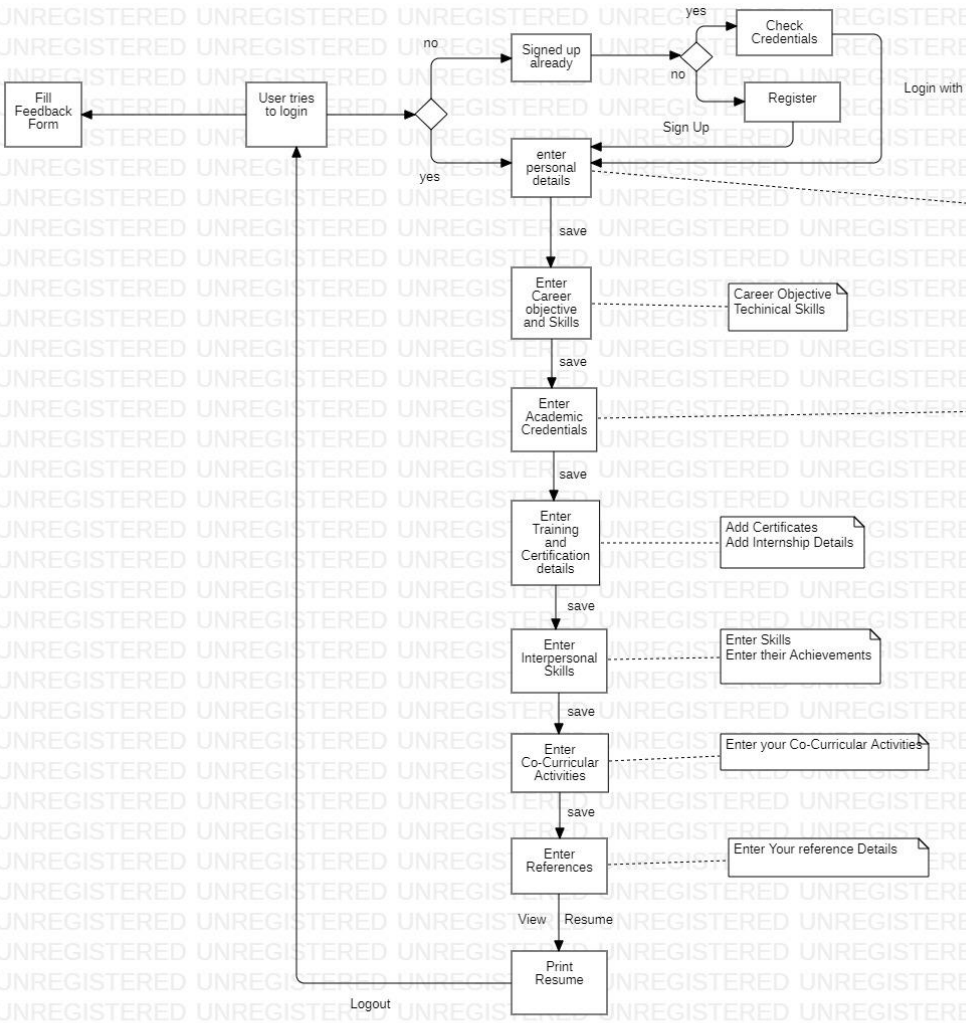
5.8 Class- Object Diagram



5.9 Use case Diagram

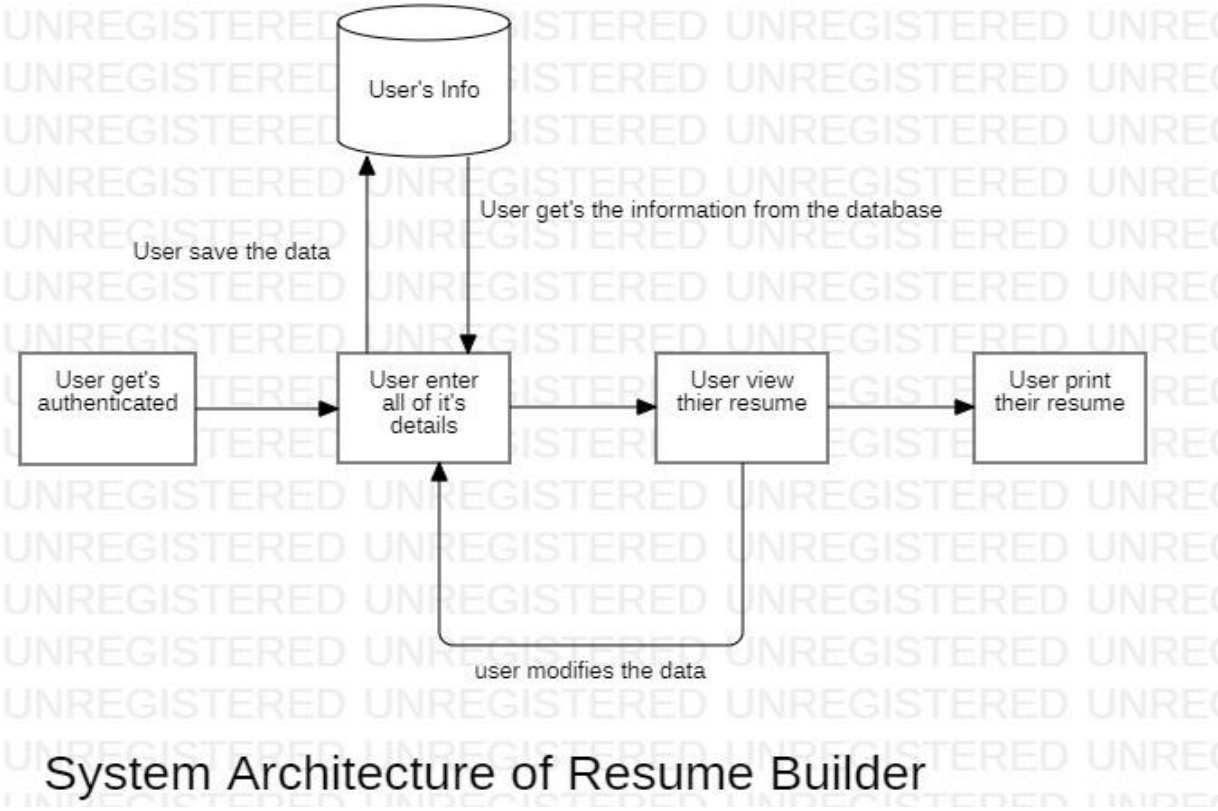


5.10 Low Level Design



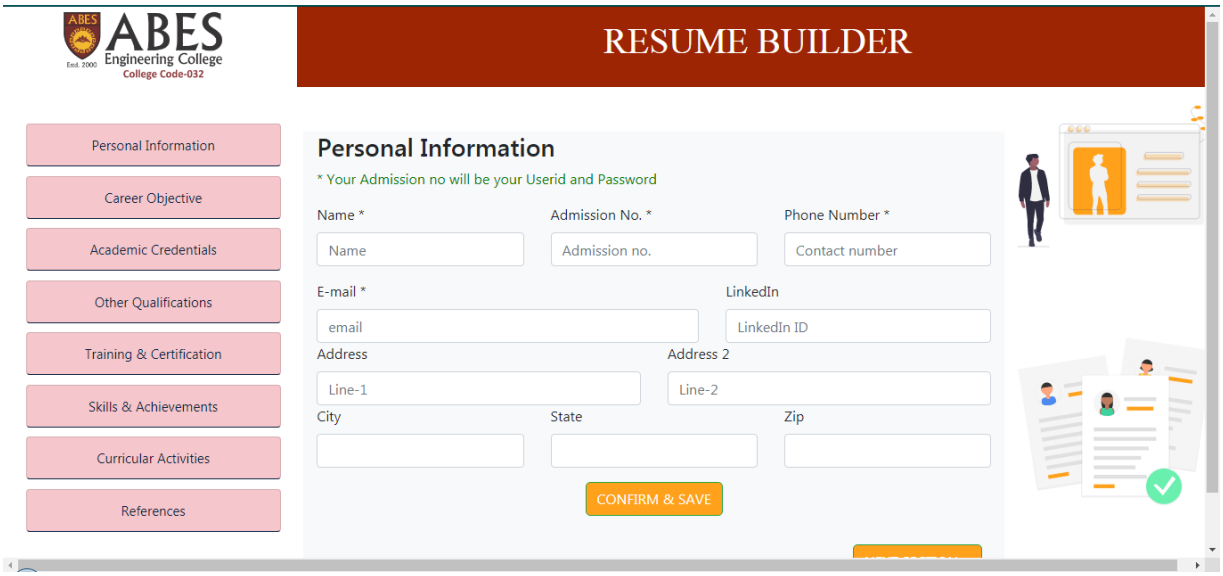
Low Level Design of Resume Builder

5.11 System Architecture /Diagrammatical View



System Architecture of Resume Builder

5.12 User interfaces:


ABES Engineering College
College Code-032
RESUME BUILDER
Personal Information
Career Objective
Academic Credentials
Other Qualifications
Training & Certification
Skills & Achievements
Curricular Activities
References
Personal Information
* Your Admission no will be your Userid and Password
Name *
Admission No. *
Phone Number *
Name
Admission no.
Contact number
E-mail *
LinkedIn
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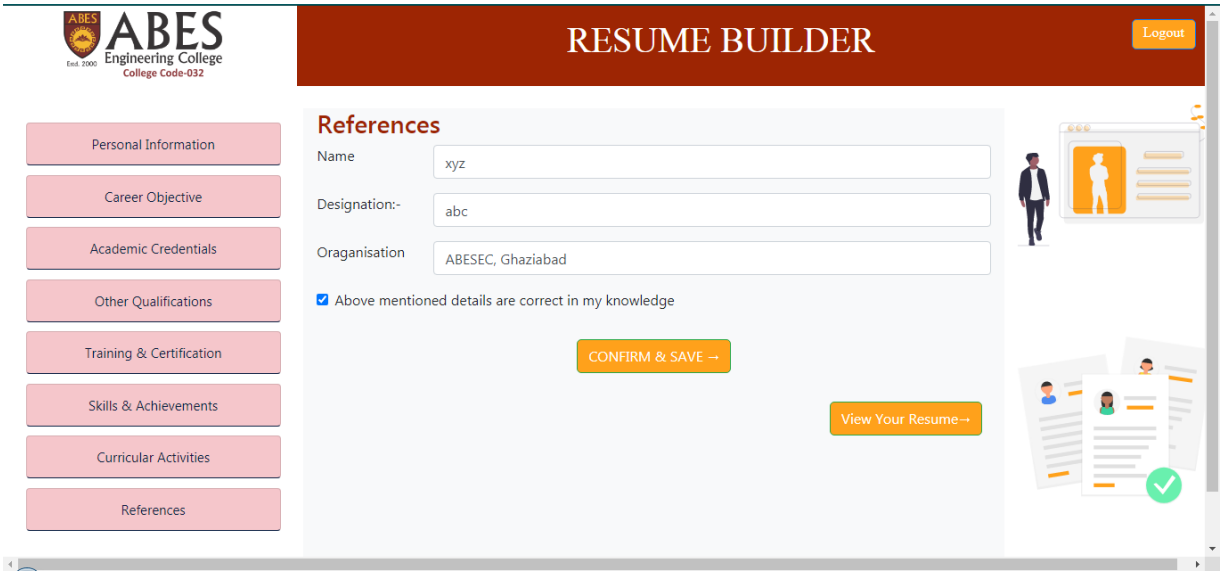
State
Zip
CONFIRM & SAVE


ABES Engineering College
College Code-032
RESUME BUILDER
Logout
Personal Information
Career Objective
Academic Credentials
Other Qualifications
Training & Certification
Skills & Achievements
Curricular Activities
References
References
Name
xyz
Designation:-
abc
Oraganisation
ABESEC, Ghaziabad
Above mentioned details are correct in my knowledge
CONFIRM & SAVE →
View Your Resume→

abc
BTech,ME
Contact no:-1234567890
Email:-abc@abc.com
LinkedIn:-abc123

Photo

CAREER OBJECTIVE

this is a career objective

ACADEMIC CREDENTIALS

Qualification	Board/University	Year	Percentage
BTech	AKTU	2022	7.80
Intermediate	CBSE	2018	96.3
High School	CBSE	2016	9.8

TECHNICAL PROFICIENCIES

- skill1
- skill2
- skill 3
- skill 4
- skill 5
- skill 6

EXPERIENTIAL LEARNING (INTERNSHIP PROGRAM)

- Company Name :- abc company
- Project Title :- xyz project
- Duration :- 10year

EXPERIENTIAL LEARNING (INTERNSHIP PROGRAM)

- Company Name :- abc company
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TRAINING & CERTIFICATION

- certi1
- certi2
- certi3
- certi4

PROJECTS

- this is a project description

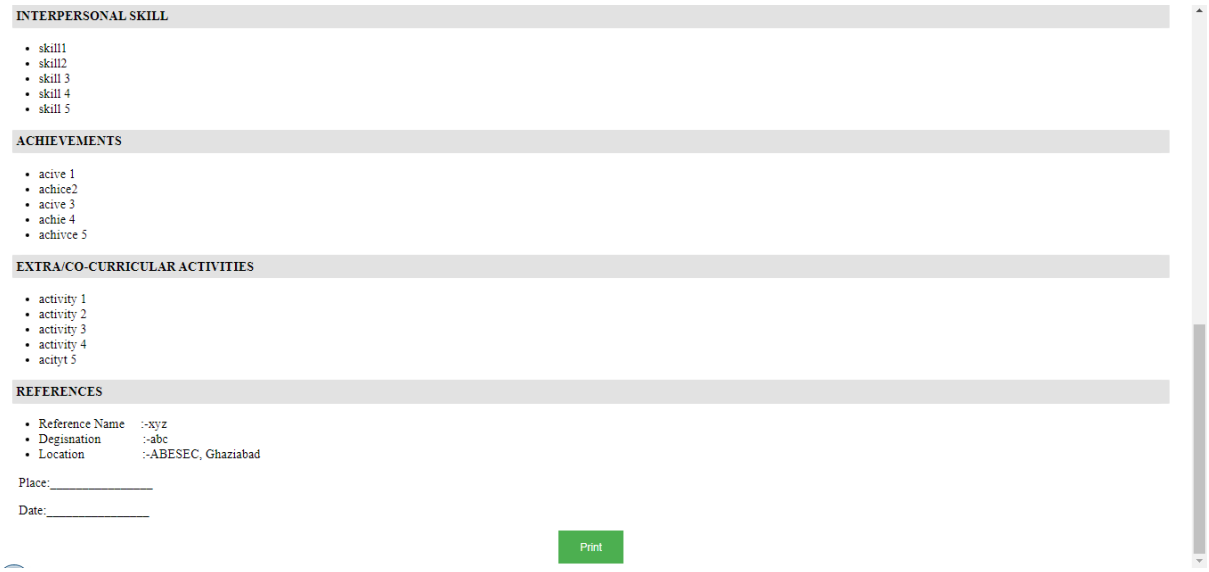
INTERPERSONAL SKILL

- skill1
- skill2
- skill 3
- skill 4
- skill 5

ACHIEVEMENTS

- acive 1
- achice2
- acive 3
- achie 4
- achivce 5

EXTRA/CO-CURRICULAR ACTIVITIES



INTERPERSONAL SKILL

- skill1
- skill2
- skill 3
- skill 4
- skill 5

ACHIEVEMENTS

- acive 1
- achice2
- acive 3
- achie 4
- achivce 5

EXTRA/CO-CURRICULAR ACTIVITIES

- activity 1
- activity 2
- activity 3
- activity 4
- acityt 5

REFERENCES

- Reference Name :-xyz
- Degisnation :-abc
- Location :-ABESEC, Ghaziabad

Place:_____

Date:_____

Print

5.13 Operating Environment:

Recommended browsers are Chrome, Firefox, Safari and Internet Explorer 8 or higher.

System Perspective

Particulars	Client System	Server System
Operating System	Windows/Linux/Android/iOS	Linux
Processor	Intel or AMD	Intel or AMD
Hard Disk	1 GB	1 TB
RAM	256 MB	8 GB

Assumptions and Dependencies:

- The user must have basic knowledge of computers and English language.
- Each User must have a User ID and password.
- There must be an Administrator.
- Internet connection is a must.
- Proper browsers should be installed in the user's system.

a. Logical Database:

MySQL	**MySQL** database for storage of Data and user as well as store information
RESTful API	A **RESTful API** is an application program interface (**API**) that uses HTTP requests to GET, PUT, POST and DELETE data.

b. Communications Interfaces:

The resume builder system shall use the HTTPS protocol for communication over the internet and for the intranet communication will be through TCP/IP protocol suite. The user must have SSL certificate licensing registered web browser

Chapter -6

IMPLEMENTATION AND RESULTS

7.1 Software and Hardware Requirements

In this section provide the details of any software or hardware requires for the implementation of the project.

7.2 Implementation Details

7.2.1 Snapshots Of Interfaces

7.2.2 Test Cases

List the test cases used to test your work. *//Test REPORTS*

7.3 Assumptions and dependencies

7.4 Constraints (If Applicable)

7.5 Results

Include the output of your work here. The result can be in tabular and/or graphical format depending on the project. Comparison with earlier or other work may also be presented.

References