**Tribhuvan University**

**Faculty of Humanities and Social Science**

**Project Report on Resume Builder**

**Submitted to:**

Department of Bachelor in Computer Application (BCA),

Mechi Multiple Campus

Bhadrapur, Jhapa

For the partial fulfillment of BCA Sixth semester

**Submitted by:**

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Third Year / Sixth Semester

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**Supervisor’s Recommendation**

I hereby recommend that this project prepared under my supervision by Nischal Adhikari entitled **“Resume Builder”** In partial fulfillment of the requirements for the degree of Bachelor of Computer Application is recommended for the final evaluation.

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Signature

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**Faculty of Humanities and Social Sciences**

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**LETTER OF APPROVAL**

This is to certify that this project prepared by Nischal Adhikari entitled **“Resume Builder”** in partial fulfillment of the requirements for the degree of Bachelor in Computer Application has been evaluated. In our opinion it is satisfactory in the scope and quality as a project for the required degree.

|  |  |
| --- | --- |
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# ABSTRACT

The purpose of this document is to describe the features and procedures that were followed in the development of the project. This document specially mentions the details of the project and how it was developed, all the requirements and functionalities of the system throughout the project. Think of a Resume as a tool for marketing yourself. It's more than just a document: It outlines your background, your skills, and your education so that a potential employer is quickly and easily able to see how your individual experiences can contribute to a company's success. However, often this outreach is done without adequate data on which to base decisions especially fresh graduates. The system was developed with Mongo dB, Express, React and Node JS. Resume Builder provide support to the user for jobs opportunities. And the more important point is our website will be open for everyone, who accessed the internet, and the services will be offered freely, without any payment. By implementing our application, the new ideas about resume will be implemented; we will follow the new and updated formats for resume, which are well acceptable in job market.

**Key Words**: Resume, Document, Tool, Contribute

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Table of Contents

[ABSTRACT IV](#_Toc107346230)

[Acknowledgement V](#_Toc107346231)

[Table of Contents VI](#_Toc107346232)

[Table of Figure VIII](#_Toc107346233)

[List of Tables: IX](#_Toc107346234)

[List of Abbreviation X](#_Toc107346235)

[CHAPTER 1: Introduction 1](#_Toc107346236)

[1.1 Introduction 1](#_Toc107346237)

[1.2 Problem Statement 2](#_Toc107346238)

[1.3 Objectives 2](#_Toc107346239)

[1.4 Scope and Limitation 2](#_Toc107346240)

[1.5 Development Methodology 2](#_Toc107346241)

[1.6 Report Organization 4](#_Toc107346242)

[CHAPTER 2: Background Study and Literature Review 5](#_Toc107346243)

[2.1 Background Study 5](#_Toc107346244)

[2.2 Literature Review 5](#_Toc107346245)

[CHAPTER 3: System Analysis and Design 7](#_Toc107346246)

[3.1. System Analysis 7](#_Toc107346247)

[3.1.1 Requirement Analysis 7](#_Toc107346248)

[3.1.2 Feasibility Analysis 8](#_Toc107346249)

[3.1.3 Data Modeling 9](#_Toc107346250)

[3.1.4 Process Modelling 9](#_Toc107346251)

[3.1.5. Logical DFD 10](#_Toc107346252)

[3.2. System Design 11](#_Toc107346253)

[3.3. Architectural Design 12](#_Toc107346254)

[3.4. Database Schema 12](#_Toc107346255)

[3.5. Interface design (UI/UX) 13](#_Toc107346256)

[3.6. Algorithm Details 13](#_Toc107346257)

[3.6.1. Description of Algorithm 13](#_Toc107346258)

[3.6.2. Algorithm 14](#_Toc107346259)

[CHAPTER 4: Implementation and Testing 15](#_Toc107346260)

[4.1 Implementation 15](#_Toc107346261)

[4.1.1 Tools used 15](#_Toc107346262)

[4.1.2 Implementation details of modules 16](#_Toc107346263)

[4.2 Testing 16](#_Toc107346264)

[4.2.1 Test cases for Unit Testing 18](#_Toc107346265)

[4.2.2 Test cases for System Testing 22](#_Toc107346266)

[CHAPTER 5: Conclusion and Future Recommendations 24](#_Toc107346267)

[5.1 Conclusion 24](#_Toc107346268)

[5.2 Outcome 24](#_Toc107346269)

[5.3 Gantt chart 24](#_Toc107346270)

[5.4 Future Recommendation 24](#_Toc107346271)

[**Reference** 27](#_Toc107346272)

# Table of Figure

[Figure 1: Prototype Model 3](#_Toc107346353)

[Figure 2: Use Case Diagram 7](file:///E:\Computer%20Download\total-final1.docx#_Toc107346354)

[Figure 3: Entity Relationship Diagram 9](#_Toc107346355)

[Figure 4: Context Diagram 10](#_Toc107346356)

[Figure 5: Data Flow Diagram 11](#_Toc107346357)

[Figure 6: Architectural Design 12](#_Toc107346358)

[Figure 7 : Schema Diagram 13](#_Toc107346359)

[Figure 8: Interface Design 13](#_Toc107346360)

[Figure 9: Testing of Resume Builder 17](#_Toc107346361)

[Figure 10: Gantt chart 24](#_Toc107346362)

[Figure 11: Landing page 25](#_Toc107346363)

[Figure 12: Login 25](#_Toc107346364)

[Figure 13: Admin Dashboard for viewing user 25](#_Toc107346365)

[Figure 14: Admin Dashboard 26](#_Toc107346366)

[Figure 15: Resume template 26](#_Toc107346367)

# List of Tables

[Table 1: Test Case User Login 18](#_Toc107346324)

[Table 2:Test Case of Login as admin 19](#_Toc107346325)

[Table 3: Test Case of add user and admin 19](#_Toc107346326)

[Table 4: Test Case of Add Template 20](#_Toc107346327)

[Table 5: Test Case for Change Password 21](#_Toc107346328)

[Table 6: Test Case of Resume Upload 21](#_Toc107346329)

# List of Abbreviation

MERN : Mongo DB Express React Node JS

DB : Database

JS : JavaScript

ER : Entity Relationship

RAM : Random Access Memory

# Introduction

## 1.1 Introduction

A resume is a formal document that provides an overview of your professional qualifications, including your relevant work experience, skills, education, and notable accomplishments. Many job seekers assume that the purpose of a resume is to provide a full overview of their professional history. Instead, the goal of your resume is to **convince employers you’re worth interviewing.** If resume provides a concise summary of relevant qualifications and skills in a format that makes ability to handle the work as clear as possible, there is high chance to be selected for interview.

Being a student in college is one of the most stressful periods in a young adult’s life. It is the time in which individuals determine their career paths, all while finding their independence and fighting to be successful students and employees. In order to do so, students must showcase their talents, experiences, and skills on a single sheet of paper: the resume. Resumes represent who students are, not only as employees, but as teammates; thus, there is a lot of pressure on students to create flawless portfolios. Many students do not have practical knowledge in the process of creating a resume. For those who do, it is still difficult to describe one’s achievements and to determine which items will look most appealing to modern day employers. Hence, there is a necessity for a solution that aids students in creating effective resumes that will help them achieve their goals and set them on the right path for a successful post-graduate career. Many students have been trained to format their resumes using word processing programs like Microsoft Word or Apple Pages. While intuitive to many users, this manual method of designing resumes requires brute force in formatting text, and leaves students with uninspiring, verbose resumes. The easiest method today is to use online resume builders, which allow users to upload preexisting documents or add the information in different paid and unpaid site. Some paid site is the problem for the students due to economy and many unpaid site has various limitation.

Our solution is a free web application that generates creative and personalized infographic resumes with little effort. A Resume Builder helps the applicant to make curriculum vita in short period of time. It is a reliable tool for the applicant to present him/herself in the best light possible. By implementing our application, the new ideas about resume will be implemented; we will follow the new and updated formats for resume which are well acceptable in job market. Our system will consist of two modules: The admin session and the user’s session. Admin module is responsible for editing and updating the content of the website. Admin also manages the Information of all the other users. User module allows the users to register and sign up into the website. The user can ask any question if they have any confusion on using website. The user can also update their personal information on regular basis.

## **1.2 Problem Statement**

Resume is a vital role while applying for a job. It is an important document that can be a game-changer for the carrier of a job seeker. Poor formatting indicates a lack of awareness and lets the employer know that you do not have an eye for design. A great format shows the potential employer that you understand the importance of information design in a professional setting. The search committee members do not have much time to go through every line of resume. That's why a proper format plays a significant role in the readability of documents. So, Resume Builder provides market acceptable templates which will be a great feature to those people who are not familiar with the formatting. It helps to make your documents consistent and well structured. It provides essential guidelines and thus prevents important information from going unnoticed. People really feel difficult to find the job related to their skills. So, Resume Builder also provide feature of job recommendation.

## 1.3 Objectives

-To help people who want to create resume.

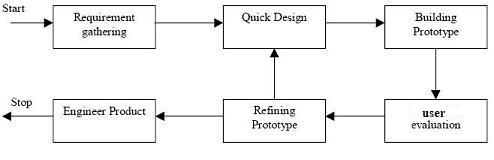
-To provide a simple user experience and easy to use platform for resume management.

## 1.4 Scope and Limitation

The proposed software product is the Resume Builder. The system will be used by job seeker and students. The student who are not familiar with the pattern of resume will be highly benefited by our system. The intention of this system is to provide user resume in the minute of time

## 1.5 Development Methodology

System development is a process through which a product will get completed or a product gets rid from any problem. Software development process is described as a number of phases, procedures and steps that gives the complete software. It follows series of steps which is used for product progress. The development method followed in this project is prototyping model.



**Figure 1: Prototype Model**

a) Requirements gathering and analysis

In this phase, the requirements of the Resume Builder are defined in detail. During the process, gather information on what the system should do from as many sources as possible:

i. Directly observing user

ii. Analyzing procedures and other documents

b) Quick design

In this stage, a simple design of the resume builder is created. However, it is not a complete design. It gives a brief idea of the system to the user. The quick design helps in developing the prototype.

c) Build a Prototype

In this phase, an actual prototype is designed based on the information gathered from quick design. It is a small working model of the required system.

d) User evaluation

In this stage, the proposed system is presented to the user for an initial evaluation. It helps to find out the strength and weakness of the working model. Comment and suggestion are collected from the user.

e) Refining prototype

If the user is not happy with the current prototype, refine the prototype according to the user’s feedback and suggestions. This phase will not over until all the requirements specified by the user are met. Once the user is satisfied with the developed prototype, a final system is developed based on the approved final prototype.

f) Engineer Product

Once the final system is developed based on the final prototype, it is thoroughly tested and deployed to production. The system undergoes routine maintenance for minimizing downtime and prevent large-scale failures.

## 1.6 Report Organization

The report consists of four chapters. The “Introduction” is the first chapter which contains whole information about the project “Resume Builder”. The introduction chapter contains the introduction, problem statement, objectives and scope of the project. The second chapter includes the background study and literature review. The chapter three is known as system analysis and design which include many sub chapters. The sub chapters inside the chapter three are: system analysis and system design which is further divided into sub topics. The system analysis includes requirement analysis (functional analysis and non-functional analysis), feasibility study (Technical feasibility, operational feasibility, economic feasibility and scheduling feasibility) and data flow diagram. The system design consists of algorithm, flow chart and Gantt chart of the project. The last chapter contains two part: expected output and reference.

# Background Study and Literature Review

## 2.1 Background Study

The main goal of design and develop this project “A Web Application about “Resume Builder” is to provide a simplified resume and cover letter maker with management platform. People often misplaced what should put on a resume and what should not. This web application gives people the ability to get rid of those problems. This web application offers an instant flawless experience to user who wants to create a resume and cover letter. In order to land a job interview, everyone needs a proper resume. The web application about resume manager and generator can help that, like instantly create an online resume, get some inspiration before making a resume from publicly available resume in the platform. Many people get confused by creating a resume for the very first time People can also view public resume posted by other professionals and get inspired by them and post a comment on a topic and get replied by others. The web platform of the application is highly scalable and responsive so that people can browse and get their work done by any devices like smartphones.

Our motivation behind this web application is to solve a problems about making resume and cover letter. Few weeks later, we are searching for simple part time jobs and we found that we must apply our resume and cover letter for applying a job. First we think it is a simple task, we make our document and apply for jobs as you can imagine we got rejected by our weak document. Then, we research about these document and find out that it is one of the main document for job seekers. So, we got our first idea here. We also search for resources in internet for developing these document and found some applications but they are not user-friendly and document format are way too old. Also, it is difficult to prepare a document as there is many more unguided features. A simple task to prepare a document has become one of the challenging task for us. Now, we think our idea has a huge purpose and can help many others people like us to prepare their document easily. So, we decided to make a simple and user-friendly web based application which is also responsive for any devices and helps to prepare resume and cover letter with latest document templates.

## Literature Review

There are some web applications available on the internet that can generate a resume. We studied some of them and found some are well maintained and some need modification. Some are paid and need to create an account and some application is completely free to use with some limitations. We reference some of the web applications to compare with our web application. We found there are some field that needs to focus on. Specially, on a simple user interface. Almost every web application are built with a complex user interface. We listed the two most simples found web application for the reference. One of this web site provides services for free and others provide services as paid services. User needs to subscribe by paying monthly subscription fees to get the services. Also, their user interface is a bit complex for the new users to understand. Both of the web sites provide a decent amount of resume, cover letter services. Some website also provides other services alongside with resume generator services like cover letter and project proposal, and software documentation generator, which seems bloated for a simple resume template generator website.

My perfect resume is a web application that provide premium resume template. They provide resume builder, resume sample, resume example, and resume templates [1]. This website also an auto cover letter generator, cover letter example and cover letter templates. This website takes 3 steps to generate a resume. In this website people can create resume, cover later by picking up a pre made template. Which can be helpful but the lake of customization in user end is still an issue. There are no security validation to make a resume. This web site just provides some simple template and users can select the category that they want to include to their resume. As a free service, this web site is a good choice but the lack of simplicity kind of ruins the purpose for a simple resume generator.

Novo resume is multipurpose web application that provide various services including Resume Templates, CV, Templates, Cover Letters and a nifty Career Blog features. They provide both modern layout resume template and classic layout resume template. They have a premium pricing plan [2].By this web application people can make their resume by paying a subscription fee. This web site provides many quality resume template. But, most of the users want to make their resume for free. Also, this web site user experience is not that much user-friendly for a simple resume generator. This web site is a good choice but the lack of simplicity and pricing kind of ruins the purpose for a simple resume generator.

# CHAPTER 3: System Analysis and Design

## **System Analysis**

System analysis is a method of problem-solving that deals with the breaking down of a system into components parts in order to study how well the individual parts work and interact to accomplish their purpose. It involves the process of enumerating the existing problems, analyzing the proposed system for costs and benefits, analyzing the system and user requirements, and considering possible alternative system.

### 3.1.1 Requirement Analysis

1. **Functional Requirement**

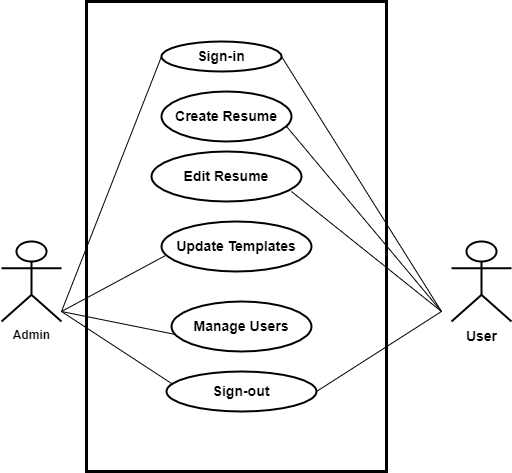
The system should be able to manage and store resume.

The system should provide appropriate UI for resume maker and download.

The system should be able to recognize and authenticate users.

The system should be able to manage and maintain a proper database.

The system should be easily operable and user friendly.



**Figure 2: Use Case Diagram**

1. **Non-Functional Requirement**

* **Performance Requirements**

The system in itself does not require anything specific for basic operation, but the complete software with all its components running may have some performance requirements. Except viewing pre-loaded notices and files (in website), an internet connection is needed for the features of the system to become available.

* **Safety Requirements**

Major attention should be given to the safety and security of the data and information that are stored in the software. The database of this system is trustworthy and there is no-leakage.

* **Security Requirements**

The resume builder has proper user authentication. The system user will not be able to access the software without providing proper authentication.

* **System Quality**

Attributes several additional qualities and characteristics of the system will be important to the client and/or the developers, like correctness, maintainability, portability, testability and usability. For correctness, proper care and attention will be given during the design and coding from both developers and customer (should correct some false and unwanted features) side. Usability will be achieved by developing the product as user friendly as possible. Similarly, maintainability and testability play vital role in the long life of the software.

### **Feasibility Analysis**

* **Technical feasibility**

The system is to be developed using Mongo DB, Express, React and Node JS. The team members have basic knowledge about programming and related which will enable us to learn and adapt to these specific languages and platforms. Thus, we can see that the project is technically feasible.

* **Operational feasibility**

The system required very little specific environment to run. The software will be extremely user-friendly, removing the need for specifically trained employees. The system uses the dynamic technologies upgrade and update quite easily. Maintenance of the project includes time to time optimization of database, removing the old files and information and other necessary task to be done for software modification. The project estimated that the maintenance and operating of the system will not be any big issue, so project is operationally feasible.

* **Economic feasibility**

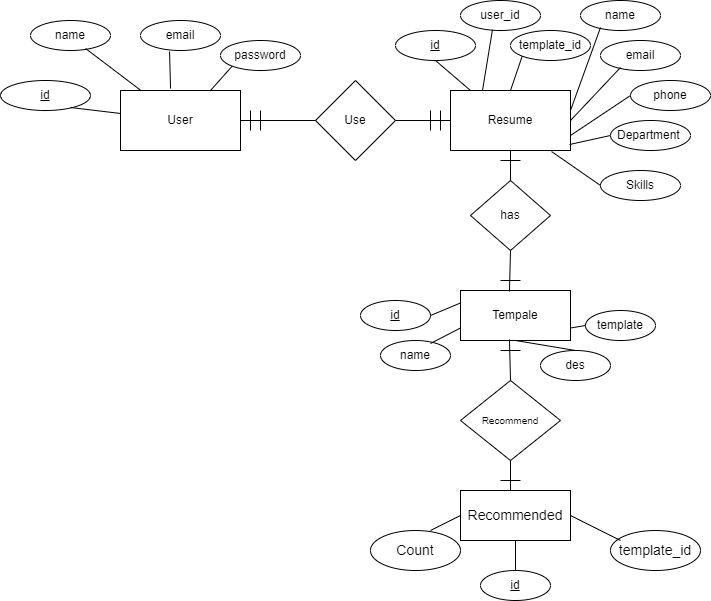
The program uses programming languages whose IDE are freeware. The project is the part of academic qualification for Bachelor in Computer Application- Tribhuvan University and there is no monetary factor involved. So, the project is economically feasible.

### 3.1.3 Data Modeling

Data modeling answers a set of specific questions that are relevant to any data processing application. Hence it is a process of creating a data model by applying a data model theory to create a data model instance.

When data modeling is done, it is the first steps towards structuring and organizing of data. These data structures are then typically implemented in a database management system.

In addition to defining and organizing the data, data modeling will impose (implicitly or explicitly) constraints or limitations on the data placed within the structure. It is the analysis of data objects and their relationships to other data objects. It involves a progression from conceptual model to logical model to physical schema.

** Figure 3: Entity Relationship Diagram**

### Process Modelling

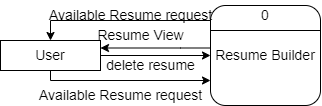
As information moves through software, it is modified by a series of transformations. A data flow diagram (DFD) is a graphical representation that depicts information flow and the transforms that are applied as data move from input to output. The data flow diagram may be used to represent a system or software at any level of abstraction. In fact, DFDs may be partitioned into levels that represent increasing information flow and functional detail. Therefore, the DFD provides a mechanism for functional modeling as well as information flow modeling.

It satisfies the second operational analysis principle. A level 0 DFD, also called a fundamental system model or a context model, represents the entire software element as a single bubble with input and output data indicated by incoming and outgoing arrows, respectively. Additional processes and information flow paths are represented as the level 0 DFD is partitioned to reveal more detail.Data flow Diagram is a commonly used technique in the System Analysis stage of development. The Data Flow Diagram (DFD) provides the key means of achieving one of the most important requirements of structured development-the notion of structure. The DFD allows the system to be partitioned into development into independent units so that they, and thereby the system, can be more easily understood.

Data flow Diagram is a commonly used technique in the System Analysis stage of development. The Data Flow Diagram (DFD) provides the key means of achieving one of the most important requirements of structured development-the notion of structure. The DFD allows the system to be partitioned into development into independent units so that they, and thereby the system, can be more easily understood. The graphical aspect of DFD means that they can be used both as static pieces of documentation and as a communication tool.

The context level data flow diagram is known as Level 0 DFD. It represents the system at a high level of detail in terms of its inputs from external entities and its outputs to external entities. It has one process box for the entire system along with the external entities, data sources and data flows.

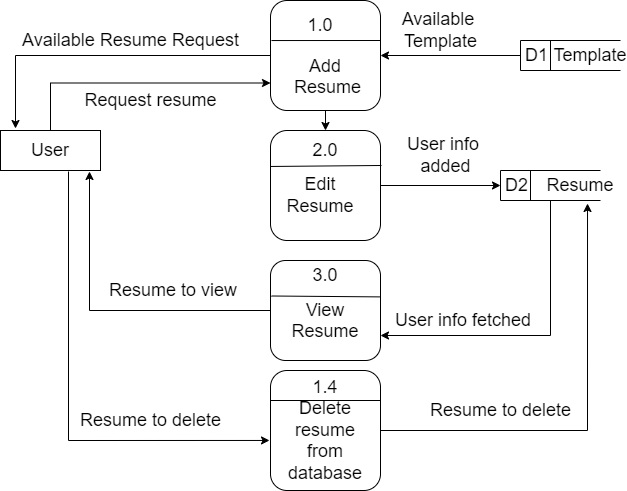
It represents the system level description of the processes explaining how the system interacts with external entities of Resume Builder.



**Figure 4: Context Diagram**

### **Logical DFD**

This diagram represent what are the bounders and scope of Resume Builder project. It describes the main objective of the system and entities involved.

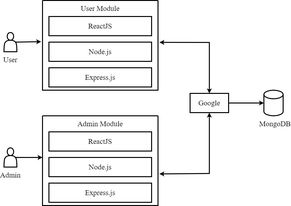


**Figure 5: Data Flow Diagram**

## System Design

The system is designed using the Model View Controller (MVC) Architecture. MVC is a system architecture that separates application into three main components, namely the model, view and controller, each playing different roles. Model is the main functionality or the domain-specific representation of the information, views are the user interfaces and the controllers are the ones who respond to user actions and invoke appropriate changes on the model and view. The purpose of separating the application is to make sure that the modification to one component will cause the least impact to the others and thus promoting system maintainability. This architecture is especially useful in a system where there exist many types of users with many different levels of authorization. Different styles of display or data are required to facilitate different types of users. No duplicate user interface needed to be created as the model and controller will detect and react according to user role. This is because MVC architecture supports multiple presentations of data and separate styles of interaction with each presentation.

## Architectural Design

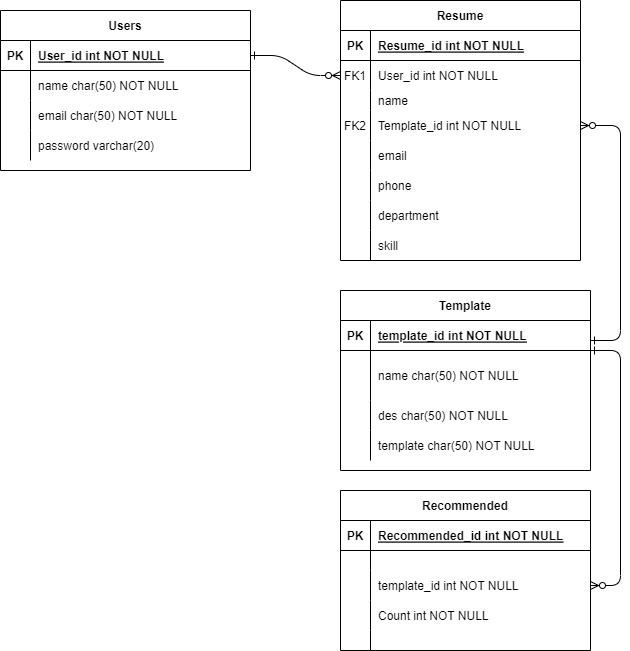


**Figure 6: Architectural Design**

The system will have two separate clients as user and admin as shown in Figure. The user will be of two types’ admin and user. The application will be built using the Mongo DB, Express, React and Node JS. We will use Visual Studio code as a text editor of our project. The rest of the details regarding methodology are mentioned in functional requirement section.

## Database Schema

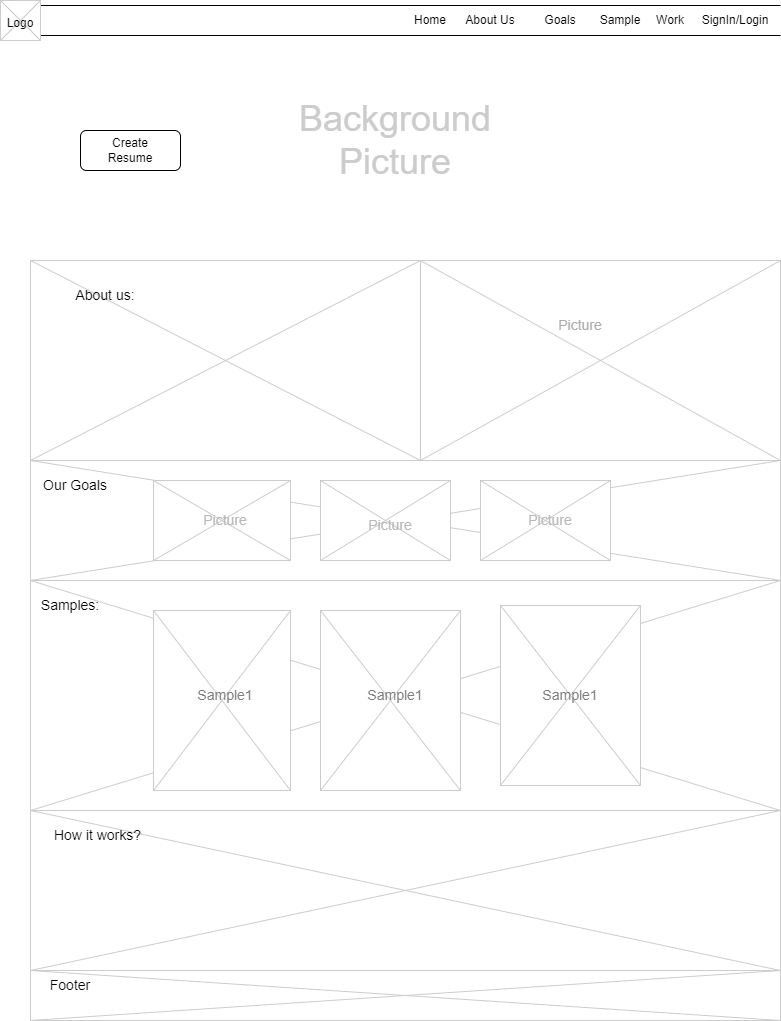
A database schema is the skeleton structure that represents the logical view of the entire database. It defines how the data is organized and how the relations among them are associated. It formulates all the constraints that are to be applied on the data. A database schema can be divided broadly into two categories − Physical Database Schema: This schema pertains to the actual storage of data and its form of storage like files, indices, etc. It defines how the data will be stored in a secondary storage. Logical Database Schema:



**Figure 7 : Schema Diagram**

## Interface design (UI/UX)

Design interface is the integration of the quantitative design characteristics of systems engineering (reliability, maintainability, etc.) with the functional logistics/integrated product support elements.



**Figure 8: Interface Design**

## Algorithm Details

### Description of Algorithm

The recommendation system algorithm is the logic for filtering the information. We use recommendation algorithm for recommending the resume which is the most used resume among all the user. We create a database table name recommended which record the information about “how many times a user use a particular template?” .And on the basis of count recorded in recommended table ,we recommend the resume to the user.

### Algorithm

Step1: Start

Step2: Set i=0 ,j=size , k=0

Step3:Repeat Steps 4-9 while i<=j

Step4:Set k=(i+j)/2

Step5:If arr[k]=num goto Step 6 else goto Step 7

Step6:return k and goto Step 11

Step7:If array[k]<num goto Step 8 else goto Step 9

Step8:i=k+1

Step9:j=k-1

Step10:Return Null and go to step 11

Step11:Stop

# CHAPTER 4: Implementation and Testing

## Implementation

During the application implementation phase, each module of software is thoroughly tested for bugs and for accuracy of output. The system developed is very user-friendly and the detailed documentation is also given to the user as online help wherever necessary. The implementation phase normally ends with the formal test involving all the components.

This is the process of taking an idea and turning it into reality. It entails a number of steps that you must complete in order to ensure success. This begins with the project’s plan development and continues through its eventual completion. A project can define by the unique aspects of their respective industries and business models. This means that not all projects will follow the same approach to implement their vision or strategy.

### Tools used

#### 1. Software Requirement

##### CASE tools

CASE tools used in Resume Builder Application:

* Figma: We use Figma to design wireframe for the initial case. We can easily create Icons, Design Logo and Assets by using figma.
* Visual Studio Code: We use Visual Studio Code as it is a code editor used to redefine and optimize for building and debugging modern web and cloud applications. VS Code make us instantly productive with syntax highlighting, bracket-matching, auto-indentation, box-selection, snippets, and more.

##### Programming Languages

JavaScript:

JavaScript is a lightweight, interpreted programming language. It is Open and

Cross-platform. We can easily integrate HTML, CSS by using JavaScript .We

use React JS, Node JS and Express, the frame work of JavaScript. React JS is

used to develop and operate the dynamic User Interface of web pages with high

incoming traffic. Node.js is a server-side JavaScript run-time environment

which is capable of driving asynchronous I/O with its event-driven architecture.

Express is web based application framework for web designing and API build

ing.

##### Database Platforms

We use AWS database platform (cloud-based) for hosting Mongo DB database.

Amazon Web Services (AWS) is a secure cloud services platform, offering

compute power, database storage and it helps Running web and application

servers in the cloud to host dynamic websites. MongoDB is a source-available

cross-platform document-oriented database program. It is classified as a

NoSQL database program, MongoDB uses JSON-like documents with optional

schemas.

#### 2. Hardware Requirement

The section of hardware configuration is an important task related to the software development. Insufficient random access memory may affect adversely on the speed and efficiency of the entire system. The process should be powerful to handle the entire operations. The hard disk should have sufficient capacity to store the file and application.

Processor: Pentium IV and above

Processor speed: 1.4 GHz Onwards

System memory: 2 GB minimum (4 GB recommended)

Cache size: 512 KB

RAM: 2 GB (Minimum)

### Implementation details of modules

1. Admin module

The admin of our system is allowed to view all the users and resume templates. S/he has authority to add other admin if necessary. The admin can upload and delete the template.

1. User module

The authenticated user of our application are able to create resume by selecting any of the template of our application. The user can create as many template as they want. And their own resume will be display in their dashboard. They can download the resume in pdf format.

## Testing

**Software Testing** is a method to check whether the actual software product matches expected requirements and to ensure that software product is[defect](https://www.guru99.com/defect-management-process.html)free. It involves execution of system components using manual or automated tools to evaluate one or more properties of interest. The purpose of software testing is to identify errors, gaps or missing requirements in contrast to actual requirements. The following things were done during the process of Resume Builder testing:

* Tests were planned before testing begun.
* The entire tests were prepared as per users’ requirements.
* Analytical tools were used to develop test cases.
* A testing strategy was adopted and applied.
* Tools were created to control testing.

As it is application-oriented software with GUI interface, the testing was less time consuming and more precise.

|  |
| --- |
| Validation Testing  System Testing  Functional Testing  Integration Testing  Unit Testing |

**Figure 9: Testing of Resume Builder**

The two main Test approach of Software Engineering are:

1. White box testing

White box testing is a test case design approach that employs the control architecture of the procedural design to produce test cases. It is gone through all internal testing including the source code manipulation of the software. Each and every code goes smoothly as per my requirements. Using white box testing approaches, the software engineering can produce test case that will:

1. Guarantees all independent paths in a module have been exercised at least once.
2. Execute all logical decisions.
3. Execute all loops at their boundaries and in their operations.
4. Exercise internal data structures to maintain their validity.

2. Black box Testing

Black box testing approaches concentrate on the fundamentals requirements of the software. Black box testing allows us to produce groups of input situations that will fully exercise all functional requirements for a program. It is a complementary approach that is likely to uncover a different type of errors that the white box approaches. Black box testing tries to find errors in the following categories. It is done all those testing which gives the exact output whatever it desire. Including this testing it have gone through all the following points:

1. Incorrect or missing functions.
2. Interface errors.
3. Errors in data structures or external data base access.
4. Performance errors.
5. Initialization and termination errors.

Errors get fixed. We took a destructive attitude towards the program we test, but at larger context our work was constructive.

### Test cases for Unit Testing

The software units in the systems are modules and routines that are assembled and integrated to perform a specific function. As a part of unit testing we executed the program for individual modules independently. This enables, to detect errors in coding and logic that are contained within each of the three modules. This testing includes entering data that is filling forms and ascertaining if the value matches to the type and entered into the database. The various controls are tested to ensure that each performs its.

Table 1: Test Case User Login

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test case id | 1 | | | |
| Test case description | User Login | | | |
| Prerequisites | User must be registered  Enter the valid username and password.  Click login | | | |
| Test scenario 1 | User enter a wrong username | | | |
| Test data | Username: abc  Password: student | | | |
| Step | Expected output | | Actual Result | Pass/fail |
| 1 | Incorrect information | | Username or Password is Invalid | Pass |
|  | | | | |
| Test scenario 2 | User enter a wrong password | | | |
| Test data | Username: example  Password: abcd | | | |
| Step | Expected output | | Actual Result | Pass/fail |
| 1 | Incorrect information | | Username or Password is Invalid | Pass |
|  | | | | |
| Test scenario 3 | | User enter all details successfully | | |
| Test data | | Username: example  Password: example1 | | |
| Step | | Expected output | Actual Result | Pass/fail |
| 1 | | User account login | Login Successful | Pass |

**Table 2:Test Case of Login as admin**

|  |  |  |  |
| --- | --- | --- | --- |
| Test Case ID | 2 | | |
| Test Case Description | Login as admin | | |
| Prerequisites: | 1.Valid id and password | | |
| Test Scenario | 1. Enter the valid id and password.  2. Click login | | |
| Test Data | User name: admin  Password: admin123 | | |
| Step | Expected Result | Actual Result | Pass/Fail |
| 1. | Logged in. | Login Successful. | Pass |

**Table 3: Test Case of add user and admin**

|  |  |  |  |
| --- | --- | --- | --- |
| Test Case ID | 3 | | |
| Test Case Description | Add User, Admin | | |
| Prerequisites: | All the field must be filled. | | |
| Test Scenario | 1.Enter Username, Email, Password, Confirm Password 2.Click Sign In button for User.  3.Click Add Admin button for Admin.  4. Update Role.  5. Delete User or Admin | | |
| Test Data | Username: ram  Email: Ram@gmail.com  Password: 12345678  Confirm Password: 12345678 | | |
| Step | Expected Result | Actual Result | Pass/Fail |
| 1.  2.  3.  4. | User Added  Admin Added  Role Updated  Delete Success | User Added  Admin Added  Role Updated  Delete Success | Pass  Pass  Pass  Pass |

**Table 4: Test Case of Add Template**

|  |  |  |  |
| --- | --- | --- | --- |
| Test Case ID | 4 | | |
| Test Case Description | Add Template | | |
| Prerequisites: | All the field must be filled. | | |
| Test Scenario | 1. Enter Name, Description, and Template.  2. Click Add button for Upload Template.  3. Delete Template. | | |
| Test Data | Name: Basic  Description: This is basic template  Template: index.html | | |
| Step | Expected Result | Actual Result | Pass/Fail |
| 1.  2. | Template Added  Template Deleted | Template Added  Template Deleted | Pass  Pass |

**Table 5: Test Case for Change Password**

|  |  |  |  |
| --- | --- | --- | --- |
| Test Case ID | 5 | | |
| Test Case Description | Change Password | | |
| Prerequisites: | All the field must be filled. | | |
| Test Scenario | 1.Enter the Old Password, New Password, Confirm Password  2. Click Change Password button. | | |
| Test Data | Old Password: admin122  New Password:admin1  Confirm Password:admin1 | | |
| Step | Expected Result | Actual Result | Pass/Fail |
| 1. | Password updated | Password changed successfully. | Pass |

**Table 6: Test Case of Resume Upload**

|  |  |  |  |
| --- | --- | --- | --- |
| Test Case ID | 6 | | |
| Test Case Description | Resume Upload | | |
| Prerequisites: | All \* field must be filled. | | |
| Test Scenario | 1. Click Checkout button in Template to create resume.  2. Click Checkout button in Home Page My Resume to view Resume.  3. Delete the result if necessary. | | |
| Test Data | Name: nischal  Email: [nischal@gmail.com](mailto:nischal@gmail.com)  Phone: 9801236547  Github Link: <https://github.com/Nischal-Ad>  Linkdin Link:  Summary: this is summary  Skills: this is skills  Department: BCA  Collage/university: MMC  Start Date: 02/11/2018  End Date:08/11/2022  Job Title: manager  Company Name: Crystal  Work Description: this is work description  Start Date: 11/02/2020  End Date: 11/03/2022 | | |
| Step | Expected Result | Actual Result | Pass/Fail |
| 1.  2.  3.  4. | View Form  Resume Created  View Resume  Resume Deleted | View Form  Resume Created  Resume View  Resume successfully deleted. | Pass  Pass  Pass  Pass |

### Test cases for System Testing

Since this test concentrates on each unit of the software as implemented in source code, the test was conducted keeping every small module in consideration. The following is the report of a few bugs that were overcome during the test and those remain unchecked.

**Table7: Test Report bugs and solutions**

|  |  |  |
| --- | --- | --- |
| **S.N.** | **Bugs:** | **Solution:** |
| **1** | Differential backup generated an execution time error.  **Error description:**  Constraint Violation. | Differential, files and transaction log backups avoided |
| **2** | Size of files and response details could not be loaded during the display of search contents.  **Error description:**  Process Access Denied. | Permitted attributes displayed. |
| **3** | Unable to detect associated files by itself when called for.  **Error description:**  File Not Found. | Required associations assembled.  Detection remains unsolved. |

Most of the error is caused by human because human develop system and manipulation is done by human themselves only, hence nobody can deny the possibility of having committing some or other mistake or the existence of bugs. Even though, extreme condition should be taken care for maintaining the data and respective entries of the system for the testing of report. A set of test materials is nothing more than a list of possible problems in a program and a set of procedure for determining whether the problems actually exist and are significant or not.

# CHAPTER 5: Conclusion and Future Recommendations

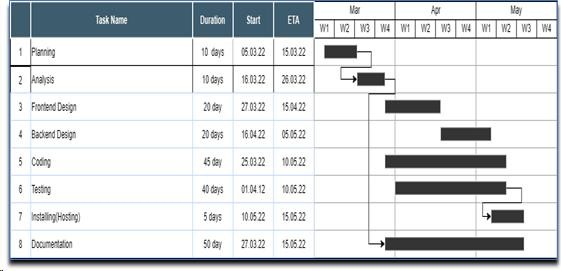
## Conclusion

This web application will deliver a smooth experience to all kind of user. People will be benefited from this web application by creating an Online resume. Developing this project, we use React.js in frontend. React is a frontend framework. Choosing React as a frontend framework is ideal for this kind of web application. React state manager helps a lot to implementing of user interfaces. For the backend we chose Node.js. Using node over other backend language was not an easy diction. We made this web application as asynchronous way. So that every time user requests a route or complete a form action without blocking application I/O. For this reason, we chose node. Node provide great solution to async programming.

## Outcome

The main outcome from this web application is to create a resume profile and save time for creating a resume. This application is highly responsive so that people can browse this web application from any device. Users can use this web application as a guest user or a registered user. People will be able to create their resume. People can ask a question about a resume which will be answered by admin .This web application will help people to create a resume, save and manage a resume online for future use.

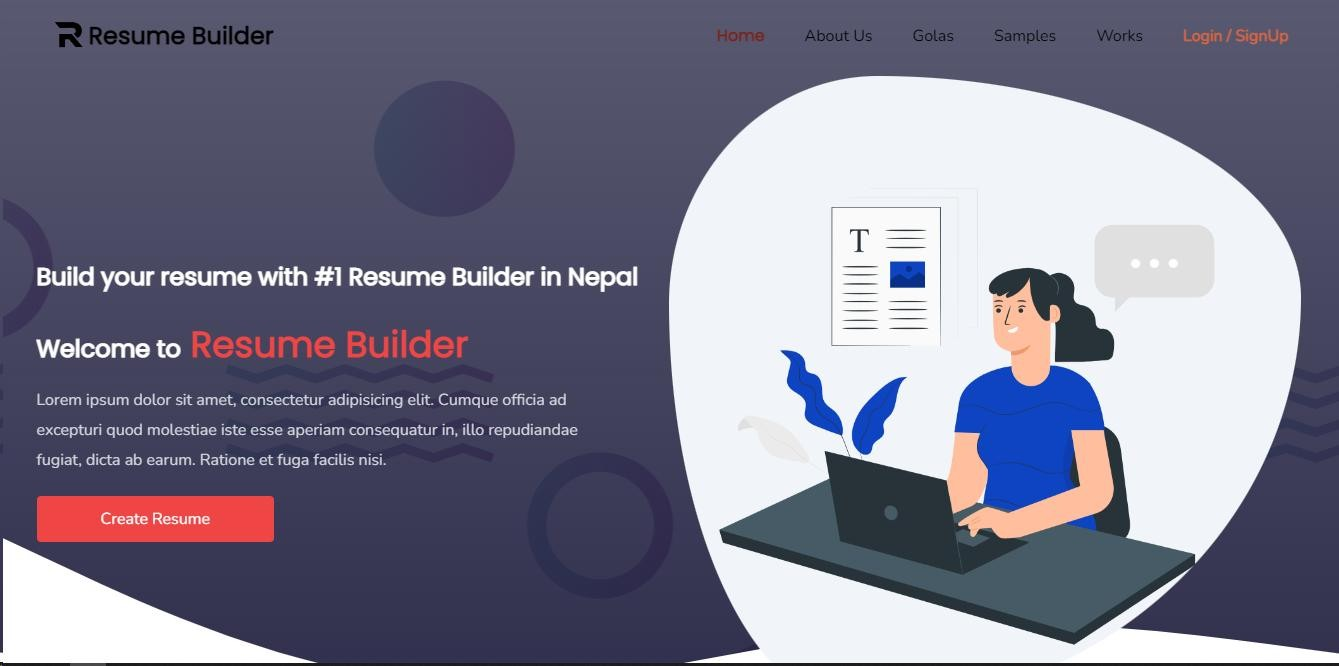
## Gantt chart



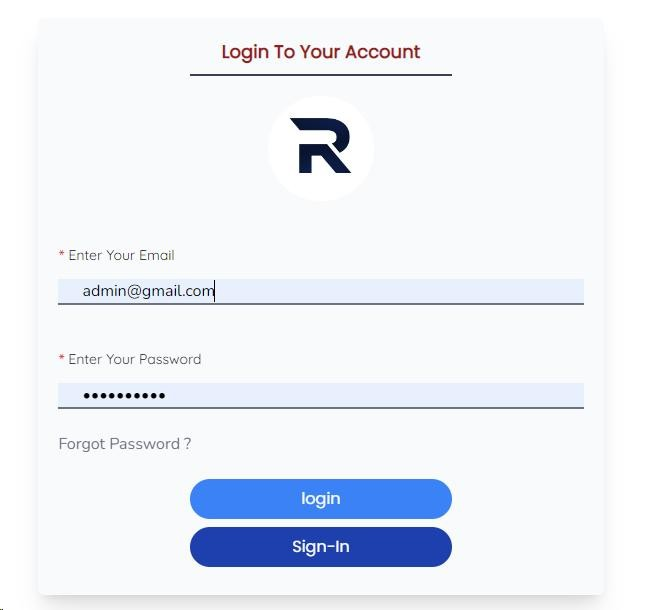
**Figure 10: Gantt chart**

## Future Recommendation

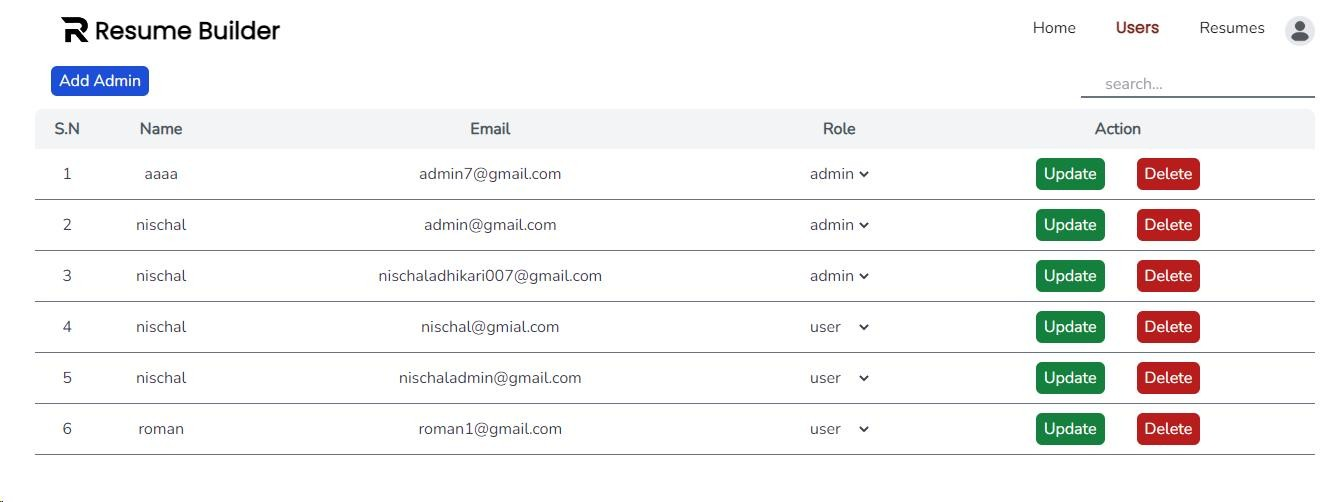
Our future features will include a larger gallery of graphics and templates, so that users can effortlessly design resumes that match the different format criteria for various occupations. Also, there will be an option to customize a resume without any layout to allow for complete user control. Due to the added options for resumes, we will also need to build a system to save and create new resumes, and edit or remove existing resumes. In addition, we would like to add a read-only portal for employers, so that users can supply a link to their online resume for employers to interact with. We will add the feature to fill the information in resume by using fetching information from Facebook, LinkedIn and GitHub .We will continue to work together as a team to further the advancement of our application.



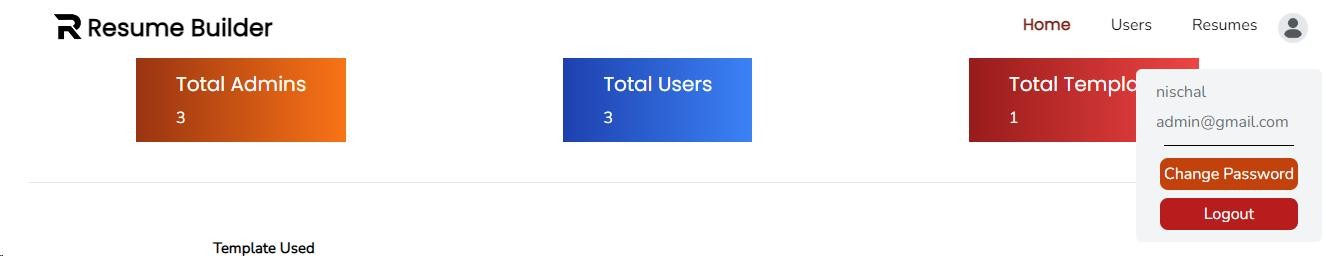
**Figure 11: Landing page**



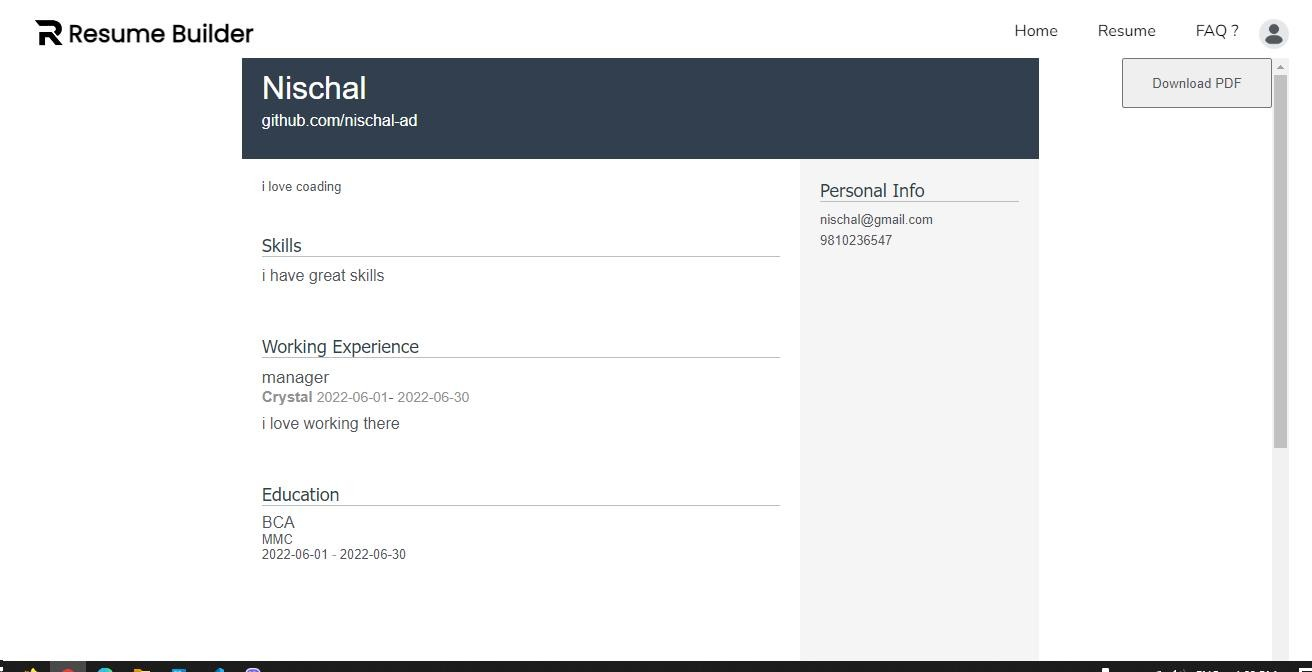
**Figure 12: Login**



**Figure 13: Admin Dashboard for viewing user**



**Figure 14: Admin Dashboard**



**Figure 15: Resume template**

**Reference**

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[4] MongoDB. (2019). The most popular database for modern apps. [online] Available at: https://www.mongodb.com/ [Accessed 26 Feb. 2021].