RESUME BUILDER WEB APPLICATION

Submitted in partial fulfillment of requirement for the award of the Degree

Bachelor of Computer Science

In the faculty of Computer Science of Bharathiar University, Coimbatore

Submitted by

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(Affiliated To Bharathiar University)

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APRIL-20

CERTIFICATE

CERTIFICATE

This is to certify that the project work entitled **"RESUME BUILDER WEB APPLICATION"** Submitted to Bharathiar University in partial fulfilled of the requirement for the award of the Degree of Bachelor of computer science is a record of the original work done by **Ms. T POOVIZHI (Reg.No.2022K0147)** Under my supervisor and that project work has not formed the basis for the any Degree /Diploma /Association /Fellowship or similar title to any candidate of any university.

Internal Guide **Head of the Department**

(Mrs.S. SASIREKHA MSc., M.Phil) **(Dr.R.PARIMALA MSc.,M.Phil.,Ph.D)**

Viva-voce examination is held on _____L.R.G Government Arts College for Women, Tirupur-641604.

Internal Examiner **External Examiner**

DECLARATION

DECLARATION

I hereby declare that the project work submitted to the Department **of the Computer Science, L.R.G. Government Arts College for Women, Tirupur**, affiliated to Bharathiar University, Coimbatore in the partial fulfillment of the required for the award of Bachelor of Computer Science is an original work done by me during the sixth semester.

Place: **Signature of the Candidate**

Date: **(T.POOVIZHI)**

(Reg.No:2022K0147)

ACKNOWLEDGEMENT

ACKNOWLEDGEMENT

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SYNOPSIS

SYNOPSIS

An online resume builder is a software developed to simplify the task of creating a resume for individuals. The application provides an effective means of designing desired resume in fact a professional looking resume. The system is flexible to be used and reduces the need of thinking and designing an appropriate resume according to qualifications. Usually individuals get confused while creating a resume especially for a novice person such as graduate students. They don’t get a clear idea of what things and information must be included in a resume. Hence the system is developed to provide them an easy way for creating a professional looking resume .

CONTENT

INTRODUCTION

1.INTRODUCTION

1.1 OVERVIEW OF THE PROJECT

Resume builder web application that helps us to build a resume individuals. The system is malleable for creating an appropriate resume according to qualification by reducing the need of thinking. Usually individuals get confused while creating a resume especially fresher's who are looking for new jobs. They are not much clear about what things and information must be included in a resume. This application will provide an easy way of developing a resume that will look like a professional resume.

This application requires less human interruption and a user friendly app. Individuals just have to fill in the required fields of the form such as educational information, interest, skills, work experience and so on. The information given by the user will be stored in the system and generate a well-structured resume. Users will be able to create a resume in any format. The proposed application will reduce the manual work of individual as a person can get his resume in a formal format without any issues just by using this resume builder application. It is mainly focused on format by simply choosing the desired template and giving some necessary details to the application and the resume builder app will process this raw information into the finished resume easily.

1.2 SYSTEM SPECIFICATION

1.2.1 HARDWARE SPECIFICATION

- Processor : P 4 700 GHz.
- RAM : 4 GB RAM
- Hard Disk Drive : 180 GB

1.2.2 SOFTWARE SPECIFICATION

- Operating System : Windows 7/8/10
- Front End : JAVA
- Back End : MYSQL

1.2.3 SOFTWARE DESCRIPTION

System Requirements Specification also known as Software Requirements Specification, is a document or set of documentation that describes the features and behavior of a software application

WINDOWS OS

Windows is a graphical operating system developed by Microsoft. It allows users to view and store files, run the software, play games, watch videos, and provides a way to connect to the internet. It was released for both home computing and professional works.

Microsoft introduced the first version as 1.0

It was released for both home computing and professional functions of Windows on 10 November 1983. Later, it was released on many versions of Windows as well as the current version, Windows 10.

In 1993, the first business-oriented version of Windows was released, which is known as Windows NT 3.1. Then it introduced the next versions, Windows 3.5, 4/0, and Windows 2000. When the XP Windows was released by Microsoft in 2001, the company designed its various versions for a personal and business environment. It was designed based on standard x86 hardware, like Intel and AMD processor. Accordingly, it can run on different brands of hardware, such as HP, Dell, and Sony computers, including home-built PCs.

Play Video Editions of Windows

Microsoft has produced several editions of Windows, starting with Windows XP. These versions have the same core operating system, but some versions included advance features with an additional cost. There are two most common editions of Windows:

- Windows Home
- Windows Professional

Windows Home is basic edition of Windows. It offers all the fundamental functions of Windows, such as browsing the web, connecting to the Internet, playing video games, using office software, watching videos. Furthermore, it is less expensive and comes pre-installed with many new computers.

FRONT END

JAVA

Java is a high-level programming language developed by Sun Microsystems. It was originally designed for developing programs for set-top boxes and handheld devices, but later became a popular choice for creating web applications.

The Java syntax is similar to C++, but is strictly an object-oriented programming language. For example, most Java programs contain classes, which are used to define objects, and methods, which are assigned to individual classes. Java is also known for being stricter than C++, meaning variables and functions must be explicitly defined. This means Java source code may produce errors or "exceptions" more easily than other languages, but it also limits other types of errors that may be caused by undefined variables or unassigned types.

Unlike Windows executable (.EXE files) or Macintosh applications (.APP files), Java programs are not run directly by the operating system. Instead, Java programs are interpreted by the Java Virtual Machine, which runs on multiple platforms. This means all Java programs are multiplatform and can run on different platforms, including Macintosh, Windows, and Unix computers. However, the JVM must be installed for Java applications or applets to run at all. Fortunately, the JVM is included as part of the Java Runtime Environment(JRE).

BACK END

MYSQL

MySQL is an Oracle-backed open source relational database management system (RDBMS) based on Structured Query Language (SQL). MySQL runs on virtually all platforms, including Linux, UNIX and Windows. Although it can be used in a wide range of applications, MySQL is most often associated with web applications and online publishing.

MySQL is an important component of an open source enterprise stack called LAMP. LAMP is a web development platform that uses Linux as the operating system, Apache as the web server, MySQL as the relational database management system and PHP as the object-oriented scripting language. (Sometimes Perl or Python is used instead of PHP.)

Originally conceived by the Swedish company MySQL AB, MySQL was acquired by Sun Microsystems in 2008 and then by Oracle when it bought Sun in 2010. Developers can use MySQL under the GNU General Public License (GPL), but enterprises must obtain a commercial license from Oracle.

Relational database management systems use structured query language (SQL) to store and manage data. The system stores multiple database tables that relate to each other. MS SQL Server, MySQL, or MS Access are examples of relational database management systems. The following are the components of such a system.

A SQL table is the basic element of a relational database. The SQL database table consists of rows and columns. Database engineers create relationships between multiple database tables to optimize data storage space.

SQL statements, or SQL queries, are valid instructions that relational database management systems understand. Software developers build SQL statements by using different SQL language elements. SQL language elements are components such as identifiers, variables, and search conditions that form a correct SQL statement.

SYSTEM STUDY

2.SYSTEM STUDY

2.1 EXISTING SYSTEM

The existing system of the resume builder is prepared in the MS-Word Application software. The Format which is designed is manual. But creating different resume formats is not easy. To reduce the burden we have developed this software.

2.1.1 DRAWBACKS

- There is no database to store and retrieve the details from MS-Word
- Time delay is more because we have to prepare the resume manually

2.2 PROPOSED SYSTEM

The proposed system tries to solve the problems mentioned above. The main objective of the proposed system is to provide information instantly as and when it is required. The main objective is to make the DEVELOPMENT OF A FUTURE PROFESSIONAL RESUME BUILDER APPLICATION details more efficient. This system should maintain different data files and resume formats, so that the data can be retrieved easily and in an efficient manner. The system is very interactive. It should ensure process integration to the desired extent, various reports should be generated as the need be. This system should also ensure that there is no redundancy in the recorded data.

2.2.1 FEATURES

- To store all details of the persons personal, educational and skill details, so that it provide better services to users.
- The proposed system provides efficient management resumes.
- Because of computerization manual work is eliminated and manual errors can be overcome easily.

SYSTEM DESIGN AND DEVELOPMENT

3.SYSTEM DESIGN AND DEVELOPMENT

3.1 FILE DESIGN

The selection of the file system design approach is done according to the needs of the developers what are the needed requirements and specifications for the new design. It allowed us to identify where our proposal fitted in with relation to current and past file system development. Our experience with file system development is limited so the research served to identify the different techniques that can be used. The variety of file systems encountered show what an active area of research file system development is. The file systems may be from one of the two fundamental categories. In one category, the file system is developed in user space and runs as a user process. Another file system may be developed in the kernel space and runs as a privileged process. Another one is the mixed approach in which we can take the advantages of both aforesaid approaches. Each development option has its own pros and cons. In this article, these design approaches are discussed.

A file system is the data structure designed to support the abstraction of the data blocks as an archive and collection of files. This data structure is unique because it is stored on secondary storage (usually the disk), which is a very slow device.

The file system structure is the most basic level of organization in an operating system. Almost all of the ways an operating system interacts with its users, applications, and security model are dependent upon the way it organizes files on storage devices.

File Design Information systems in business are file and database oriented. Data are accumulated into files that are processed or maintained by the system. The systems analyst is responsible for designing files, determining their contents and selecting a method for organizing the data.

The most important purpose of a file system is to manage user data. This includes storing, retrieving and updating data. Some file systems accept data for storage as a stream of bytes which are collected and stored in a manner efficient for the media.

3.2 INPUT DESIGN

The input design is the link between the information system and the user. It comprises the developing specification and procedures for data preparation and those steps are necessary to put transaction data in to a usable form for processing can be achieved by inspecting the computer to read data from a written or printed document or it can occur by having people keying the data directly into the system. The design of input focuses on controlling the amount of input required, controlling the errors, avoiding delay, avoiding extra steps and keeping the process simple. The input is designed in such a way so that it provides security and ease of use with retaining the privacy. Input Design considered the following things:'

- What data should be given as input?
- How the data should be arranged or coded?
- The dialog to guide the operating personnel in providing input.
- Methods for preparing input validations and steps to follow when error occur.

OBJECTIVES

- Input Design is the process of converting a user-oriented description of the input into a computer-based system. This design is important to avoid errors in the data input process and show the correct direction to the management for getting correct information from the computerized system.
- It is achieved by creating user-friendly screens for the data entry to handle large volume of data. The goal of designing input is to make data entry easier and to be free from errors. The data entry screen is designed in such a way that all the data manipulates can be performed. It also provides record viewing facilities.
- When the data is entered it will check for its validity. Data can be entered with the help of screens. Appropriate messages are provided as when needed so that the user
- will not be in maize of instant. Thus the objective of input design is to create an input layout that is easy to follow

3.3 OUTPUT DESIGN

The design of output is the most important task of any system. During output design, developers identify the type of outputs needed, and consider the necessary output controls and prototype report layouts.

External Outputs

Manufacturers create and design external outputs for printers. External outputs enable the system to leave the trigger actions on the part of their recipients or confirm actions to their recipients.

Some of the external outputs are designed as turnaround outputs, which are implemented as a form and re-enter the system as an input.

Internal outputs

Internal outputs are present inside the system, and used by end-users and managers. They support the management in decision making and reporting.

Output Integrity Controls

Output integrity controls include routing codes to identify the receiving system, and verification messages to confirm successful receipt of messages that are handled by network protocol.

Printed or screen-format reports should include a date/time for report printing and the data. Multipage reports contain report title or description, and pagination. Pre-printed forms usually include a version number and effective date.

3.4 DATABASE DESIGN

Today's businesses depend on their databases to provide information essential for day-to-day operations, especially in case of electronic commerce businesses who has a definite advantage with up-to-date database access. Good design forms the foundation of any database, and experienced hands are required in the automation process to design for optimum and stable performance.

Software Solutions have been constantly working on these platforms and have attained a level of expertise. We apply proven methodologies to design, develop, integrate and implement database systems to attain its optimum level of performance and maximize security to meet the client's business model.

Business needs addressed:

- Determine the basic objects about which the information is stored
- Determine the relationships between these groups of information and the objects
- Effectively manage data and create intelligent information
- Remote database administration or on site administrative support
- Database creation, management, and maintenance
- Information retrieval efficiency, remove data redundancy and ensure data security

The most important consideration in designing the database is how the information will be used. The main objective of designing a database is Data Integration, Data Integrity and Data Independence.

Data Integration

In a database, information from several files is coordinated, accessed and operated upon as through it is in a single file. Logically, the information is centralized, physically; the data may be located on different devices, connected through data communication facilities.

Data Integrity

Data integrity means storing all data in one place only and how each application accesses it. This approach results in more consistent information, one update being sufficient to achieve a new record status for all applications. This leads to less data redundancy that is data items need not be duplicated.

Data Independence

Data in dependence is the insulation of application programs from changing aspects of physical data organization. This objective seeks to allow changes in the content and organization of physical data without reprogramming of application and allow modifications to application programs without reorganizing the physical data.

3.5 SYSTEM DEVELOPMENT

Systems development is the process of defining, designing, testing, and implementing a new software application or program. It could include the internal development of customized systems, the creation of database systems, or the acquisition of third party developed software.

Systems development life cycle phases include planning, system analysis, system design, development, implementation, integration and testing, and operations and maintenance.

3.5.1 DESCRIPTION OF MODULES

Resume Template

The system contains various kinds of resume templates for all kind of qualification i.e. for both fresher and experienced. And also, according to the kind of degree one has

Resume Form

Users on selecting the format will be given an online form to be filled. The form includes questions like academics, personal, interests, hobbies, skills, courses, experience and so on.

Resume Builder

On submitting the form the system stores the data and within a short period of time generates resume in selected format.

Download Resume

Download the created as resume as per expected design format. We can download the resume as any format to this application.

TESTING AND IMPLEMENTATION

4. TESTING AND IMPLEMENTATION

TESTING METHODOLOGIES

System testing is state of implementation, which is aimed at ensuring that the system works accurately and efficiently as expect before live operation commences. It certifies that the whole set of programs hang together.

System testing requires a test plan that consists of several key activities and step for run program, string, system and user acceptance testing. The implementation of newly designed package is important in adopting a successful new system

Testing is the important stage in software development. the system test in implementation stage in software development process. The system testing implementation should be confirmation that all is correct and an opportunity to show the users that the system works as expected. It accounts the largest percentage of technical effort in the software development process.

Testing phase in the development cycle validates the code against the functional specification testing is vital to achievement of the system goals. The objective of the testing is to discover errors to fulfill this objective a series of test step unit, integration. Validation and system tests were planned and executed the test steps are:

4.1 SYSTEM TESTING

Testing is an integral part of any system development life cycle. Insufficient and untested applications may tend to crash and the result is loss of economic and manpower investment besides user's dissatisfaction and downfall of reputation. Software testing can be looked upon as one among many processes, an organization performs, and that provides the lost opportunity to correct any flaws in the developed system. Software testing includes selecting test data that have more probability of giving errors.

The first step in system testing is to develop a plan that tests all aspects of the system. Completeness, correctness, reliability and maintainability of the software are to be tested for the best quality assurance that the system meets the specification and requirements for its intended use and performance. System testing is the most useful practical process of executing a program with the implicit intention of finding errors that make the program fails. System testing is done in three phases.

- Unit Testing
- Integration Testing
- Validation Testing

UNIT TESTING

Unit testing focuses verification effort on the smallest unit of software the module. Using the detailed design and the process specification testing is done to registration by the user with in the boundary of the Login module. The login form receives the username and password details and validates the value with the database. If valid, the home page is displayed.

INTEGRATION TESTING

Integration Testing is the process of this activity can be considered as testing the design and hence module interaction. The primary objective of integration testing is to discover errors in the interfaces between the components. Login form and registration form are integrated and tested together. If the user is newly registered, the received details will be stored in the registration table. While logging in, the application will check for valid user name and password in the registration table and if valid the user is prompted for submitting complaints.

Data can be lost across an interface, one module can have adverse effect on another sub function when combined it may not produce the desired major functions. Integration testing is a systematic testing for constructing test to uncover errors associated within an interface.

The objectives taken from unit tested modules and a program structure is built for integrated testing. All the modules are combined and the test is made.

A correction made in this testing is difficult because the vast expenses of the entire program complicated the isolation of causes. In this integration testing step, all the errors are corrected for next testing process.

VALIDATION TESTING

Validation are independent procedures that are used together for checking that a product, service, or system meets requirements and specifications and that it fulfills its in purpose the actual result from the expected result for the complaint process. Select the complaint category of the complaint by user. The input given to various forms fields are validated effectively. Each module is tested independently. It is tested that the complaint

module fields receive the correct input for the necessary details such as complaint category, complaint id, reference name, complaint description, and email for further process.

After the completion of the integrated testing, software is completely assembled as a package; interfacing error has been uncovered and corrected and a final series of software test validation begins.

Validation testing can be defined in many ways but a simple definition is that validation succeeds when the software function in a manner that can be reasonably expected by the customer. After validation test has been conducted, one of two possible conditions exists.

OUTPUT TESTING

The next process of validation testing, is output testing of the proposed system, since no system could be successful if it does not produce the required output in the specified format. Asking the user about the format required, list the output to be generated or displayed by the system under considerations.

Output testing is a different test whose primary purpose is to fully exercise the computer based system although each test has a different purpose all the work should verify that all system elements have been properly integrated and perform allocated functions.

The output format on the screen is found to be corrected as the format was designed in the system design phase according to the user needs for the hard copy also; the output testing has not resulted in any correction in the system.

4.2 SYSTEM IMPLEMENTATION

When the initial design was done for the system, the client was consulted for the acceptance of the design so that further proceedings of the system development can be carried on. After the development of the system a demonstration was given to them about the working of the system. The aim of the system illustration was to identify any malfunction of the system.

After the management of the system was approved the system implemented in the concern, initially the system was run parallel with existing manual system. The system has been tested with live data and has proved to be error free and user friendly.

Implementation is the process of converting a new or revised system design into an operational one when the initial design was done by the system; a demonstration was given to the end user about the working system.

This process is uses to verify and identify any logical mess working of the system by feeding various combinations of test data. After the approval of the system by both end user and management the system was implemented.

System implementation is made up of many activities. The six major activities are as follows.

CODING

Coding is the process of whereby the physical design specifications created by the analysis team turned into working computer code by the programming team. A design code may be a tool which helps ensure that the aspiration for quality and quantity for customers and their requirements, particularly for large scale projects, sought by the water agency Design pattern are documented tried and tested solutions for recurring problems in a given context. So basically you have a problem context and the proposed solution for the same.

INSTALLATION

Installation is the process during which the current system is replaced by the new system. This includes conversion of existing data, software, and documentation and work procedures to those consistent with the new system.

DOCUMENTATION

Documentation is descriptive information that describes the use and operation of the system. The user guide is provided to the end user as the student and administrator. The documentation part contains the details as follows,

User requirement and water agency details administration has been made online. Any customer can request their water requirement details through online and also use of documentation, they can view the purpose of each purpose, The admin could verify the authentication of the users, users requirements and need to take delivery process, thus the documentation is made of full view of project thus it gives the guideline to study the project and how to execute also.

USER TRAINING AND SUPPORT

The software is installed at the deployment environment, the developer will give training to the end user of the regional transport officer and police admin officer in that software. The goal of an end user training program is to produce a motivated user who has the skills needed to apply what has been to apply what has been learned to perform the job related task. The following are the instruction which is specified the handling and un-handling events in the application,

- The authenticated user of admin and office workers only login in the application with authorized username and password.
- Don’t make user waste their time to come straight to the water agency or make a phone call.
- It can easily track through online by the user.
- Very user friendliness software

IMPLEMENTATION PROCEDURES

Implementation includes all the activities that take place to convert the old system to the new one. Proper implementation is essential to provide a reliable system to meet the organization requirements. Implementation is the stage in the project where the theoretical design is turned into a working system. The most crucial stage is achieving a successful new system & giving the user confidence in that the new system will work efficiently & effectively in the implementation state.

IMPLEMENTATION PROCEDURES

PILOT RUNNING

Processing the current data by only one user at a time called the pilot running process. When one user is accessing the data at one system, the system is sets to be engaged and connected in network. This process is useful only in system where more than one user is restricted.

PARALLEL RUNNING:

Processing the current data by more than one user at a time simultaneously is said to be parallel running process. This same system can be viewed and accessed by more than one user at the time. Hence the implementation method used in the system is a pilot type of implementation.

Implementation is the stage in the project where the theoretical design is turned into a working system. The most crucial stage is achieving a successful new system & giving the user confidence in that the new system will work efficiently & effectively in the implementation state.

The stage consists of,

- Testing the developed program with sample data.
- Detection and correction of error.
- Creating whether the system meets user requirements.
- Making necessary changes as desired by the user.
- Training user personnel.

USER TRAINING

User Training is designed to prepare the user for testing &consenting the system.

- User Manual.
- Help Screens.
- Training Demonstration.

USER MANUAL

The summary of important functions about the system and software can be provided as a document to the user.

HELP SCREENS

This features now available in every software package, especially when it is used with a menu. The user selects the “Help” option from the menu. The system accesses the necessary description or information for user reference.

TRAINING DEMONSTRATION:

Another User Training element is a Training Demonstration. Live demonstrations with personal contact are extremely effective for Training Users.

SYSTEM MAINTENANCE

Maintenance is actually the implementation of the review plan. As important as it is, many programmers and analysts are to perform or identify themselves with the maintenance effort. There are psychological, personality and professional reasons for this. Analysts and programmers spend far more time maintaining programs than they do writing them. Maintenance accounts for 50-80 percent of total system development

Maintenance is expensive. One way to reduce the maintenance costs are through maintenance management and software modification audits**.**

- Maintenance is not as rewarding as exciting as developing systems. It is perceived as requiring neither skill not experience.
- Users are not fully cognizant of the maintenance problem or its high cost.
- Few tools and techniques are available for maintenance.
- A good test plan is lacking.
- Standards, procedures, and guidelines are poorly defined and enforced.
- Programs are often maintained without care for structure and documentation.
- There are minimal standards for maintenance.
- Programmers expect that they will not be in their current commitment by time their programs go into the maintenance cycle.

Corrective Maintenance

It means repairing, processing or performance failure or making changes because of previously uncovered problems or false assumptions. Task performed to identify, isolate, and rectify a fault so that the failed equipment, machine, or system can be restored to an operational condition within the tolerances or limits established for in-service operations.

Corrective maintenance can be subdivided into "immediate corrective maintenance" (in which work starts immediately after a failure) and "deferred corrective maintenance" (in which work is delayed in conformance to a given set of maintenance rules).

Perfective Maintenance

It means changes made to a system to add new features or to improve performance. Preventive maintenance is predetermined work performed to a schedule with the aim of preventing the wear and tear or sudden failure of equipment components. process or control equipment failure can have adverse results in both human and economic terms. In addition to down time and the costs involved to repair and/or replace equipment parts or components, there is the risk of injury to operators, and of acute exposures to chemical and/or physical agents.

Time-based or run-based Periodically inspecting, servicing, cleaning, or replacing parts to prevent sudden failure. On-line monitoring of equipment in order to use important/expensive parts to the limit of their serviceable life. Preventive maintenance involves changes made to a system to reduce the chance of future system failure.

An example of preventive maintenance might be to increase the number of records that a system can process far beyond what is currently needed or to generalize how a system sends report information to a printer so that so that the system can adapt to changes in printer technology.

Preventive Maintenance

Changes made to a system to avoid possible future problems Perfective maintenance involves making enhancements to improve processing performance, interface usability, or to add desired, but not necessarily required, system features. The objective of perfective maintenance is to improve response time, system efficiency, reliability, or maintainability.

During system operation, changes in user activity or data pattern can cause a decline in efficiency, and perfective maintenance might be needed to restore performance. Usually, the perfective maintenance work is initiated by the IT department, while the corrective and adaptive maintenance work is normally requested by users.

CONCLUSION

5.CONCLUSION

Resume builder applications are powerful tools that allow job seekers to create professional and polished resumes quickly and easily. These applications provide several benefits, including increased efficiency, improved quality, and enhanced customization.

Resume builder applications ensure increased efficiency by providing pre-made templates, sample phrases, and suggestions for content. This helps users to create a polished and professional-looking resume quickly and easily without the need for specialized design or writing skills.

Moreover, these applications ensure improved quality by providing a range of design options, grammar and spelling checks, and suggestions for content. This helps to ensure that the final product is error-free, engaging, and relevant to the target job.

Resume builder applications also enhance customization by allowing users to tailor their resumes to specific job applications or industries. This helps to ensure that the resume is optimized for the job and can increase the chances of landing an interview.

In conclusion, Resume builder applications are powerful tools that allow job seekers to create professional and polished resumes quickly and easily. They offer several benefits, including increased efficiency, improved quality, and enhanced customization. By leveraging these benefits, job seekers can improve their chances of landing a job and advancing their careers.

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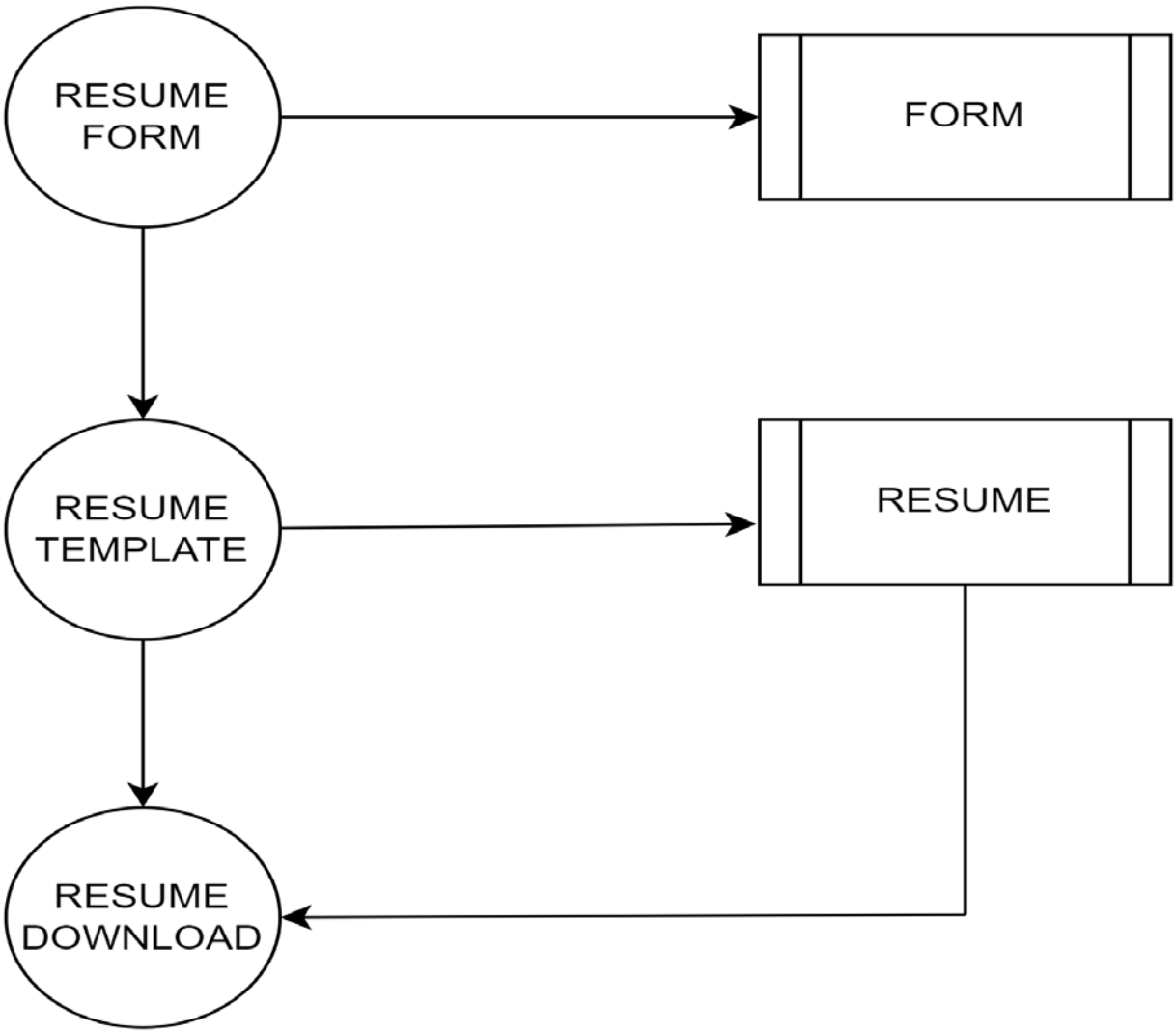
APPENDICES

7.APPENDICES

A. DATA FLOW DIAGRAM

A data-flow diagram (DFD)is a way of representing a flow of a data of a process or system. The DFD also provides information about the outputs and inputs of each entity and process itself. A data-flow diagram is a part of structured-analysis modeling tools.

LEVEL 1:



B. TABLE STRUCTURE

The table needed for each module was designed and the specification of each and every column was given based on the records and details collected during record specification of the system study.

TABLE NAME: FORM

FIELD	DATA TYPE	SIZE	CONSTRAINT
Form id	Int	10	Primary key
Builder Name	Varchar	30	Not null
Qualification Details	Varchar	30	Not null
Experience	Varchar	30	Not null
Education Details	Varchar	30	Not null
Skills	Varchar	100	Not null

TABLE NAME: RESUME

FIELD	DATA TYPE	SIZE	CONSTRAINT
Resume id	Int	10	Primary key
Download Url	Varchar	30	Not null
Resume size	Varchar	10	Not null
Resume Name	Varchar	30	Not null

C. SAMPLE CODING

```
package com.example.demo.configuration;
public class Resume {
  public static void main(String[] args) {
    String name = "John Doe";
    String email = "johndoe@email.com";
    String phone = "(555) 555-5555";
    String[] skills = {"Java", "Python", "SQL", "Git"};
    String[] education = {"Bachelor's Degree in Computer Science, XYZ University, 2010-2014",
                          "Master's Degree in Information Technology, ABC University, 2014-2016"};
    String[] experience = {"Software Developer, Acme Corp, 2016-present",
                           "Software Developer Intern, Acme Corp, 2015-2016"};
    System.out.println(name);
    System.out.println(email);
    System.out.println(phone);
    System.out.println("Skills:");
    for (String skill : skills) {
      System.out.println("- " + skill);
    }
    System.out.println("Education:");
    for (String edu : education) {
      System.out.println("- " + edu);
    }
    System.out.println("Experience:");
    for (String exp : experience) {
      System.out.println("- " + exp);
    }
  }
}
import java.io.BufferedReader;
import java.io.FileReader;
```

```
import java.io.IOException;
public class ResumeReader {
    public static void main(String[] args) {
        String filename = "resume.txt"; // replace with your file name
        try (BufferedReader br = new BufferedReader(new FileReader(filename))) {
            String line;
            String name = null;
            String address = null;
            String phone = null;
            while ((line = br.readLine()) != null) {
                if (line.startsWith("Name: ")) {
                    name = line.substring(6);
                } else if (line.startsWith("Address: ")) {
                    address = line.substring(9);
                } else if (line.startsWith("Phone: ")) {
                    phone = line.substring(7);
                }
            }
            System.out.println("Name: " + name);
            System.out.println("Address: " + address);
            System.out.println("Phone: " + phone);
        } catch (IOException e) {
            e.printStackTrace();
        }
    }
}
<html>
<head>
            <title>Resume generator</title>
            <link rel="stylesheet" type="text/css" href="css/bootstrap.min.css">
            <!-- <link rel="stylesheet" type="text/css" href="css/scroll.css"> -->
            <link rel="stylesheet" type="text/css" href="css/column_scroll.css">
            <link rel="stylesheet" type="text/css" href="css/thin_scroll.css">
            <link rel="stylesheet" type="text/css" href="css/theme.css">
            <link rel="stylesheet" type="text/css" href="css/main.css">
            <link                    href='https://fonts.googleapis.com/css?family=Roboto:300,400,500'
```

```
rel='stylesheet' type='text/css'>
        <link href='https://fonts.googleapis.com/css?family=Droid+Serif:400,700'
rel='stylesheet' type='text/css'>
        <meta name="description" content="Online document editor like interface to create
and save Resume">
        <meta name="keywords"
content="resume,cv,maker,creator,generator,iit,guwahati,iitg">
</head>
<body>
<div class="container-fluid">
        <div class="row">
                <div class="col-sm-3 no-print" id="left">
                        <div id="panel">
                                <button class="btn btn-block btn-primary" data-
toggle="modal" data-target="#usageModal">VIEW INSTRUCTIONS</button>
                                <button class="btn btn-block btn-success"
onclick="window.print()">PRINT AS PDF</button>
                                <hr>
                                <h3 class="text-center">Template settings</h3>
                                <button id="defaultTemplateBtn" class="btn btn-block btn-
danger" onclick="template('default');">Use official IITG template</button>
                                <button id="customTemplateBtn" class="btn btn-block btn-
default" onclick="template('custom');">Use custom template</button>
                                <h5>
                                        Minor
                                        <div class="toggle-button">
                                                <div class="toggle-option" data-toggle="minor"
id="minorShow">Show</div>
                                                <div class="toggle-option selected" data-
toggle="minor" id="minorHide">Hide</div>
                                        </div>
                                </h5>
                                <h5>
                                        Contact lines
                                        <div class="toggle-button">
                                                <div class="toggle-option" data-
```

```
toggle="contact" id="contact3">3</div>
                                        <div class="toggle-option selected" data-
toggle="contact" id="contact4">4</div>
                                        <div class="toggle-option" data-
toggle="contact" id="contact5">5</div>
                                    </div>
                                </h5>
                                <h5>
                                    Horizontal margin
                                    <div class="toggle-button">
                                        <div class="toggle-option" data-
toggle="margin" id="margin1">1</div>
                                        <div class="toggle-option" data-
toggle="margin" id="margin2">2</div>
                                        <div class="toggle-option" data-
toggle="margin" id="margin3">3</div>
                                        <div class="toggle-option selected" data-
toggle="margin" id="margin4">4</div>
                                        <div class="toggle-option" data-
toggle="margin" id="margin5">5</div>
                                        <div class="toggle-option" data-
toggle="margin" id="margin6">6</div>
                                    </div>
                                </h5>
                                <h5>
                                    Line spacing
                                    <div class="toggle-button">
                                        <div class="toggle-option" data-toggle="line"
id="line1">1</div>
                                        <div class="toggle-option" data-toggle="line"
id="line2">2</div>
                                        <div class="toggle-option" data-toggle="line"
id="line3">3</div>
                                        <div class="toggle-option selected" data-
toggle="line" id="line4">4</div>
                                        <div class="toggle-option" data-toggle="line"
```

```
id="line5">5</div>
                                        <div class="toggle-option" data-toggle="line"
id="line6">6</div>
                                    </div>
                                </h5>
                                <h5>
                                    Center column no.
                                    <div class="toggle-button">
                                        <div class="toggle-option multi-select" data-
toggle="column" id="column1">1</div>
                                        <div class="toggle-option multi-select" data-
toggle="column" id="column2">2</div>
                                        <div class="toggle-option multi-select" data-
toggle="column" id="column3">3</div>
                                        <div class="toggle-option multi-select" data-
toggle="column" id="column4">4</div>
                                    </div>
                                </h5>
                                <br>
                                <div id="customTemplateOptions">
                                    <h5>
                                        Font type
                                        <div class="toggle-button">
                                            <div class="toggle-option" data-
toggle="font" id="fontVerdanaSans">1</div>
                                            <div class="toggle-option" data-
toggle="font" id="fontVerdanaSerif">2</div>
                                            <div class="toggle-option" data-
toggle="font" id="fontRoboto">3</div>
                                            <div class="toggle-option selected" data-
toggle="font" id="fontDroid">4</div>
                                        </div>
                                    </h5>
                                    <h5>
                                        Title case
                                        <div class="toggle-button">
```

```
                                        <div class="toggle-option selected" data-
toggle="case" id="caseNormal">Default</div>
                                        <div class="toggle-option" data-
toggle="case" id="caseUpper">Uppercase</div>
                                    </div>
                                </h5>
                                <h5>
                                    Title style
                                    <div class="toggle-button">
                                        <div class="toggle-option selected" data-
toggle="title" id="titleRuled">Ruled</div>
                                        <div class="toggle-option" data-
toggle="title" id="titleShaded">Shaded</div>
                                    </div>
                                </h5>
                                <h5>
                                    Title rule position
                                    <div class="toggle-button">
                                        <div class="toggle-option selected" data-
toggle="rule" id="ruleAbove">Above title</div>
                                        <div class="toggle-option" data-
toggle="rule" id="ruleBelow">Below title</div>
                                    </div>
                                </h5>
                                <br>
                                <h5>
                                    Image
                                    <div class="toggle-button">
                                        <div class="toggle-option selected" data-
toggle="image" id="imageShow">Show</div>
                                        <div class="toggle-option" data-
toggle="image" id="imageHide">Hide</div>
                                    </div>
                                </h5>
                                <h5>
                                    Roll No
```

```
                                        <div class="toggle-button">
                                            <div class="toggle-option selected" data-
toggle="roll" id="rollShow">Show</div>
                                            <div class="toggle-option" data-
toggle="roll" id="rollHide">Hide</div>
                                        </div>
                                    </h5>
                                    <h5>
                                        Course
                                        <div class="toggle-button">
                                            <div class="toggle-option selected" data-
toggle="course" id="course1">1 line</div>
                                            <div class="toggle-option" data-
toggle="course" id="course2">2 lines</div>
                                        </div>
                                    </h5>
                                    <h5>
                                        Table border
                                        <div class="toggle-button">
                                            <div class="toggle-option selected" data-
toggle="table" id="tableShow">Show</div>
                                            <div class="toggle-option" data-
toggle="table" id="tableHide">Hide</div>
                                        </div>
                                    </h5>
                                    <h5>
                                        Education year column
                                        <div class="toggle-button">
                                            <div class="toggle-option selected" data-
toggle="edyear" id="edyearFirst">First</div>
                                            <div class="toggle-option" data-
toggle="edyear" id="edyearLat">Last</div>
                                        </div>
                                    </h5>
                                    <h5>
                                        Experience layout
```

```
                                    <div class="toggle-button">
                                        <div class="toggle-option selected" data-
toggle="experience" id="experience1">L1</div>
                                        <div class="toggle-option" data-
toggle="experience" id="experience2">L2</div>
                                    </div>
                                </h5>
                                <h5>
                                    Projects layout
                                    <div class="toggle-button">
                                        <div class="toggle-option selected" data-
toggle="projects" id="projects1">L1</div>
                                        <div class="toggle-option" data-
toggle="projects" id="projects2">L2</div>
                                    </div>
                                </h5>
                                <br>
                            </div>
                                =
                            <div class="section" id="sectionSkills">
                                <div class="section-title ruled rule-above">
                                    <hr class="hr-above">
                                    <h4><strong>Technical skills</strong></h4>
                                    <hr class="hr-below">
                                </div>
                                <ul>
                                <li>
                                    <strong><span
class="skillCategory">Programming languages</span> :</strong>
                                    C++, Python, Java *
                                </li>
                                <li>
                                    <strong><span class="skillCategory">Web
technologies</span> :</strong>
                                    HTML, CSS, Javascript
                                </li>
```

```
                    <li>
                        <strong><span  class="skillCategory">Database
management</span> :</strong>
                        mySQL
                    </li>
                    <li>
                        <strong><span
class="skillCategory">Miscellaneous</span> :</strong>
                        Android programming *
                    </li>
                    <li>
                        <strong><span class="skillCategory">Operating
system</span> :</strong>
                        Windows, Linux
                    </li>
                    <div class="star"><i>*<span class="light"> Elementary
proficiency</span></i></div>
                    </ul>
                </div>
                <div class="section" id="sectionResponsibility">
                    <div class="section-title ruled rule-above">
                        <hr class="hr-above">
                        <h4><strong>Positions                    of
Responsibility</strong></h4>
                        <hr class="hr-below">
                    </div>
                    <ul>
                        <li>XYZ Head, ABC 2016 (the annual XYZ of
IIT Guwahati)</li>
                        <li>City representative, New Delhi, ABC
2015</li>
                    </ul>
                </div>
                <div class="section" id="sectionAchievements">
                    <div class="section-title ruled rule-above">
                        <hr class="hr-above">
```

```
                    <h4><strong>Achievements</strong></h4>
                    <hr class="hr-below">
                </div>
                <ul>
                <li>
                    <span class="title">ABC contest 2016 : </span>
                    <span class="text">Secured 1st position in the National level contest.</span>
                </li>
                <li>
                    <span class="title">Joint Entrance Examination 2014 : </span>
                    <span class="text">Secured All India Rank 1 among 0.15 million candidates appearing for the test.</span>
                </li>
                <li>
                    <span class="title">KVPY 2013-14 : </span>
                    <span class="text">Obtained the National research fellowship scholarship by securing a position in top 1%.</span>
                </li>
                <li>
                    <span class="title">ABC Olympiad 2014 : </span>
                    <span class="text">Qualified for the international stage by securing top position in following stages :</span>
                    <ul class="decimal">
                        <li>Qualifiers stage : Bagged 20th position among 5000 candidates.</li>
                        <li>National level : Bagged 7th position among 250 candidates.</li>
                    </ul>
                </li>
                </ul>
            </div>
            <div class="section" id="sectionCourses">
                <div class="section-title ruled rule-above">
```

```
                    <hr class="hr-above">
                    <h4><strong>Key courses taken</strong></h4>
                    <hr class="hr-below">
                </div>
                <ul>
                <div class="row">
                    <div class="col-sm-6">
                        <li>Computer lab</li>
                        <li>Process design</li>
                        <li>Statistics *</li>
                    </div>
                    <div class="col-sm-6">
                        <li>Advanced calculus</li>
                        <li>XYZ architecture *</li>
                        <li>ABC lab *</li>
                    </div>
                </div>
                <div class="star"><i>*<span class="light"> To be completed in Nov 2016</span></i></div>
                </ul>
            </div>
            <div class="section" id="sectionCurricular">
                <div class="section-title ruled rule-above">
                    <hr class="hr-above">
                    <h4><strong>Extracurriculars</strong></h4>
                    <hr class="hr-below">
                </div>
                <ul>
                <li>
                    <span class="title">ABC workshop : </span>
                    <span class="text">Attended a 3-day workshop on Image sensing satellute development.</span>
                </li>
                <li>
                    <span class="title">ABC contest 2016 : </span>
                    <span class="text">Secured 1st position in the
```

```
National level contest.</span>
                                    </li>
                                    </ul>
                                </div>
                                <div class="section" id="sectionInterest">
                                    <div class="section-title ruled rule-above">
                                        <hr class="hr-above">
                                        <h4><strong>Fields of interest (OR Research interests)</strong></h4>
                                        <hr class="hr-below">
                                    </div>
                                    <ul>
                                    <div class="row">
                                        <div class="col-sm-6">
                                            <li>Advanced XYZ</li>
                                            <li>ABC design</li>
                                        </div>
                                        <div class="col-sm-6">
                                            <li>XYZ processing</li>
                                            <li>Robotics</li>
                                        </div>
                                    </div>
                                    </ul>
                                </div>
                                <div class="section" id="sectionFooterMessage">
                                    <div class="section-title ruled rule-above">
                                        <hr class="hr-above">
                                        <h6><strong>(References available on request)</strong></h6>
                                    </div>
                                </div>
                            </div>
                        </div>
                    </div>
                </div>
                <div class="modal fade" id="sectionToggleModal" tabindex='-1'>
```

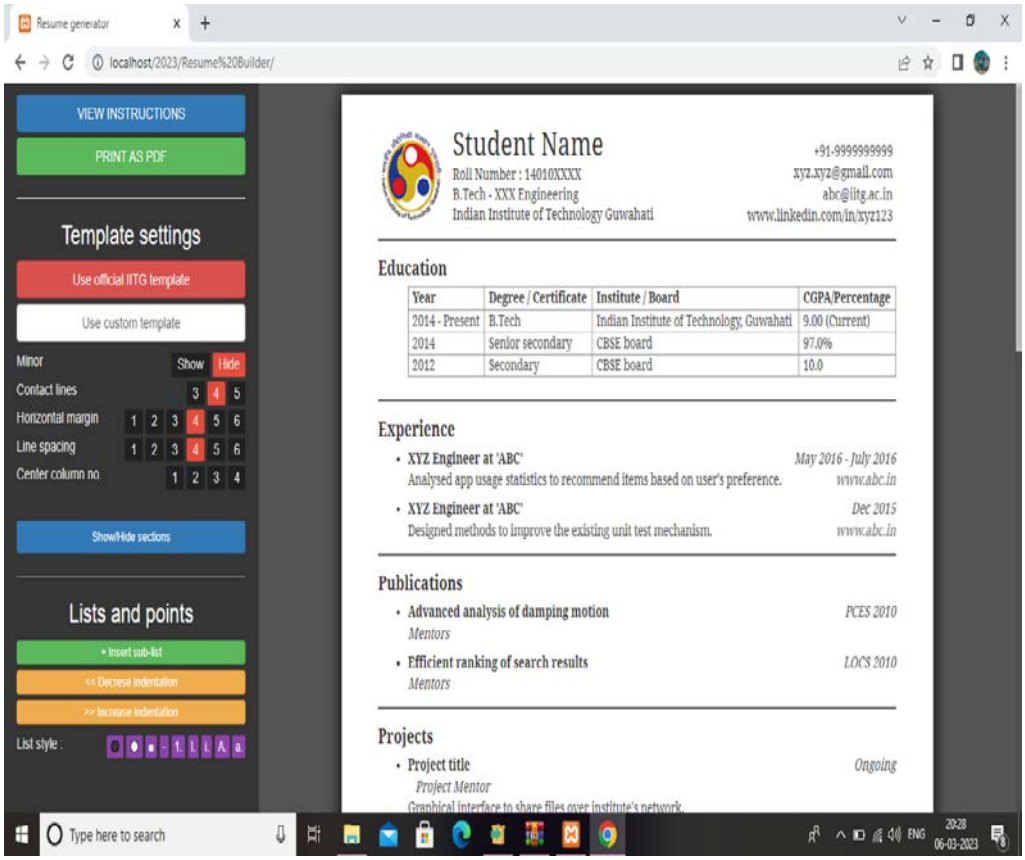
```
<div class="modal-dialog">
    <div class="modal-content">
        <div class="modal-body">
            <button type="button" class="close" data-dismiss="modal">&times;</button>
            <div class="checkbox"><label><input type="checkbox" name="sectionToggle" checked="true" value="sectionEducation">Education</label></div>
            <div class="checkbox"><label><input type="checkbox" name="sectionToggle" checked="true" value="sectionExperience">Experience</label></div>
            <div class="checkbox"><label><input type="checkbox" name="sectionToggle" checked="true" value="sectionPublications">Publications</label></div>
            <div class="checkbox"><label><input type="checkbox" name="sectionToggle" checked="true" value="sectionProjects">Projects</label></div>
            <div class="checkbox"><label><input type="checkbox" name="sectionToggle" checked="true" value="sectionSkills">Technical Skills</label></div>
            <div class="checkbox"><label><input type="checkbox" name="sectionToggle" checked="true" value="sectionResponsibility">Positions of Responsibility</label></div>
            <div class="checkbox"><label><input type="checkbox" name="sectionToggle" checked="true" value="sectionAchievements">Achievements</label></div>
            <div class="checkbox"><label><input type="checkbox" name="sectionToggle" checked="true" value="sectionCourses">Key courses taken</label></div>
            <div class="checkbox"><label><input type="checkbox" name="sectionToggle" checked="true" value="sectionCurricular">Extra curriculars</label></div>
            <div class="checkbox"><label><input type="checkbox" name="sectionToggle" value="sectionFooterMessage">References message</label></div>
        </div>
    </div>
</div>
</div>
```

```
<script type="text/javascript" src="js/jquery.min.js"></script>
<script type="text/javascript" src="js/bootstrap.min.js"></script>
<script type="text/javascript" src="js/main.js"></script>
</body>
</html>
import java.io.FileWriter;
import java.io.IOException;
public class ResumeBuilder {
   public static void main(String[] args) {
      String name = "John Doe";
      String email = "johndoe@email.com";
      String phoneNumber = "123-456-7890";
      String address = "123 Main St, Anytown, USA";
      String summary = "Experienced software engineer with a strong background in Java development.";
      String education = "Bachelor of Science in Computer Science, University of Anytown, 2010";
      String experience1 = "Software Engineer, ABC Company, Anytown USA, 2010 - present\n"
            + "- Developed and maintained Java-based web applications\n"
            + "- Collaborated with cross-functional teams to deliver high-quality software products\n"
            + "- Mentored junior software engineers";
      String experience2 = "Software Developer, XYZ Company, Anytown USA, 2008 - 2010\n"
            + "- Contributed to the development of a large-scale web application using Java and Spring framework\n"
            + "- Participated in code reviews and provided feedback to team members\n"
            + "- Improved application performance by implementing caching and other optimizations";
      String skills = "Java, Spring Framework, SQL, HTML, CSS, JavaScript";
      try {
         FileWriter writer = new FileWriter("resume.txt");
         writer.write("Name: " + name + "\n");
         writer.write("Email: " + email + "\n");
         writer.write("Phone Number: " + phoneNumber + "\n");
```

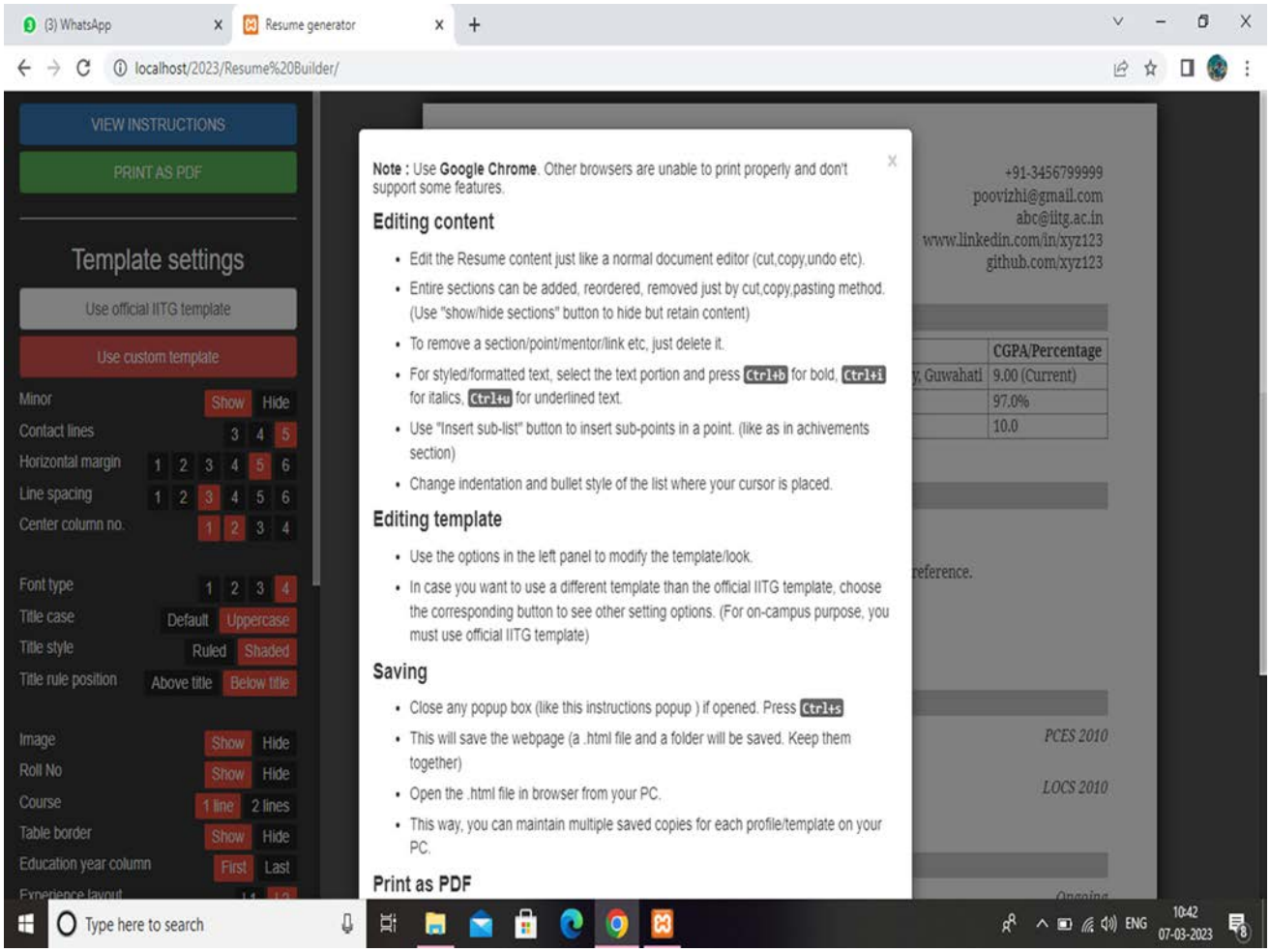
```
        writer.write("Address: " + address + "\n\n");
        writer.write("Summary:\n" + summary + "\n\n");
        writer.write("Education:\n" + education + "\n\n");
        writer.write("Experience:\n" + experience1 + "\n\n" + experience2 + "\n\n");
        writer.write("Skills:\n" + skills + "\n");
        writer.close();
        System.out.println("Resume created successfully.");
    }
```

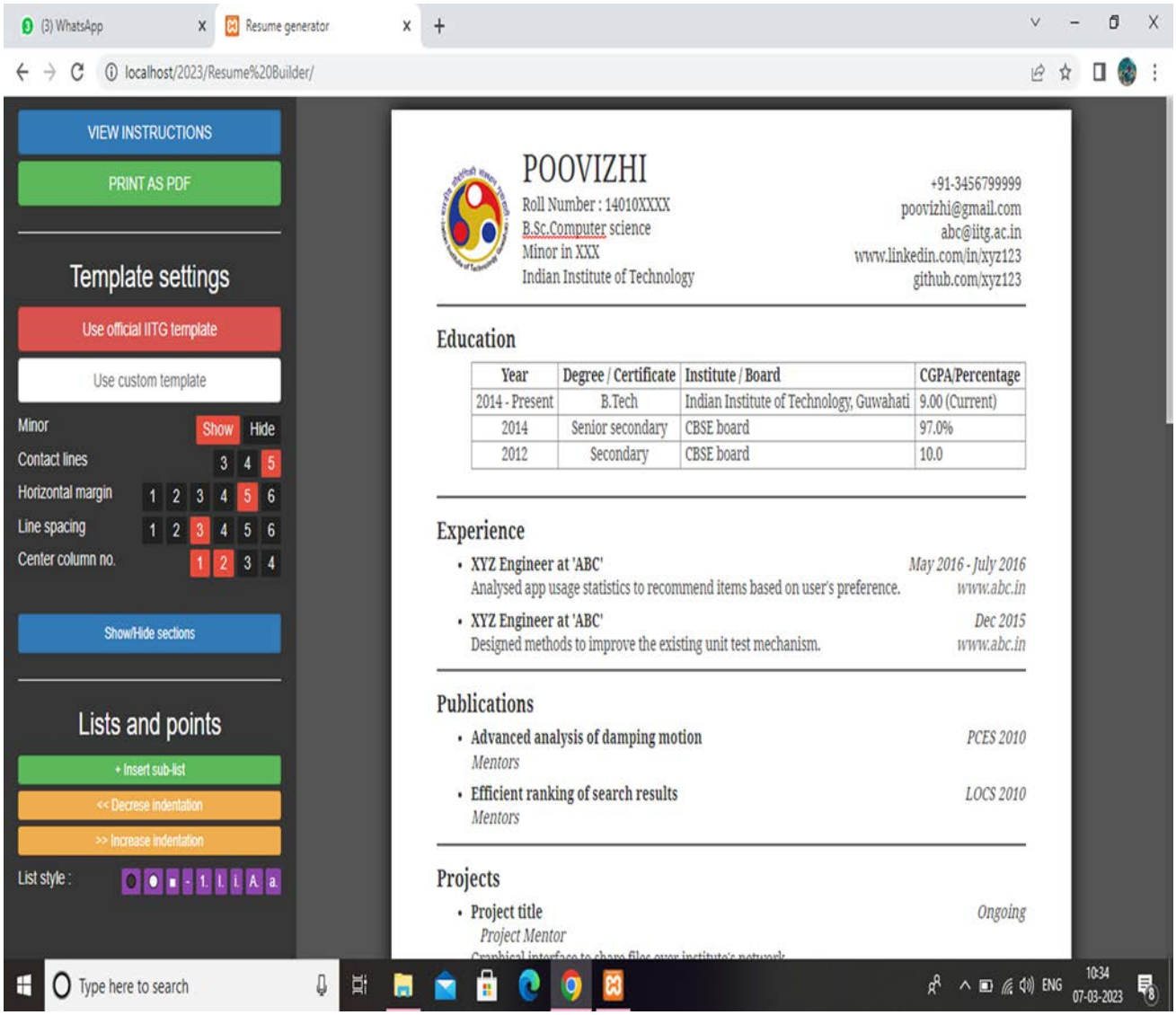
D. SAMPLE INPUT & OUTPUT DESIGN

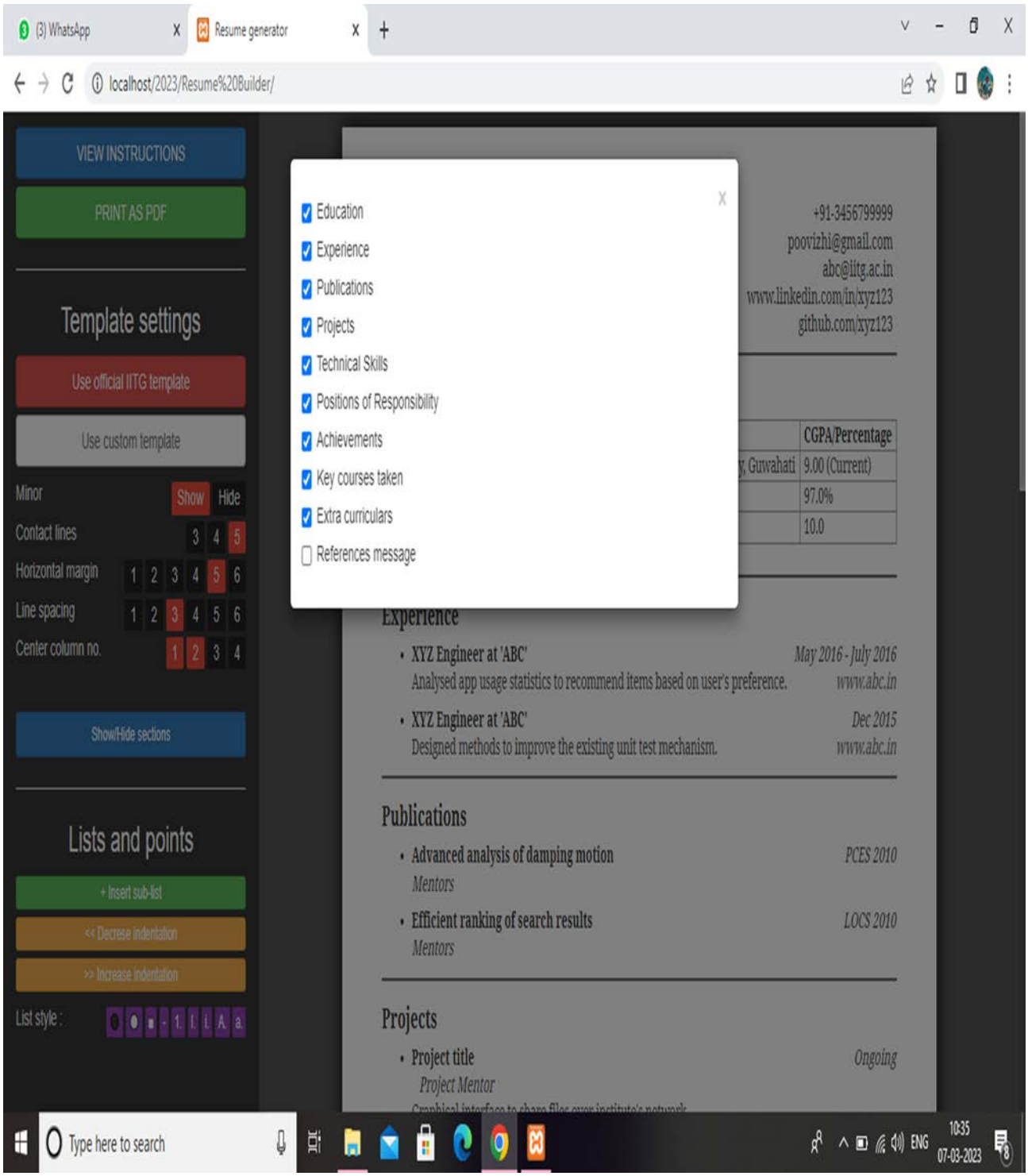
FRONT PAGE:



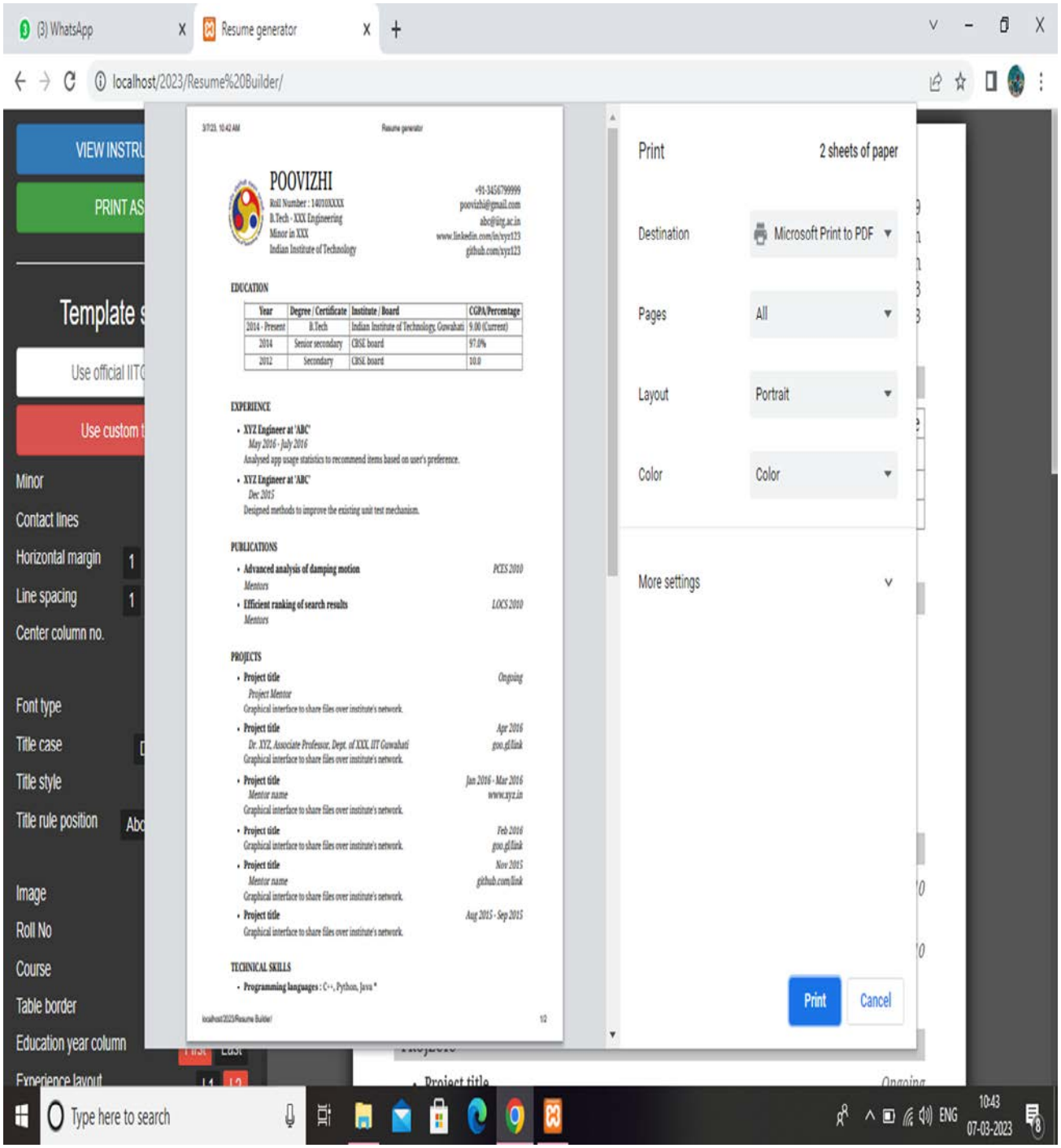
INSTRUCTION PAGE:




(3) WhatsApp
Resume generator
localhost/2023/Resume%20Builder/
VIEW INSTRUCTIONS
PRINT AS PDF
Template settings
Use official IITG template
Use custom template
Minor Show Hide
Contact lines 3 4 5
Horizontal margin 1 2 3 4 5 6
Line spacing 1 2 3 4 5 6
Center column no. 1 2 3 4
Show/Hide sections
Lists and points
+ Insert sub-list
<< Decrese indentation
>> Increase indentation
List style :
POOVIZHI
Roll Number : 14010XXXX
B.Sc.Computer science
Minor in XXX
Indian Institute of Technology
+91-3456799999
poovizhi@gmail.com
abc@iitg.ac.in
www.linkedin.com/in/xyz123
github.com/xyz123
Education
Year | Degree / Certificate | Institute / Board | CGPA/Percentage
2014 - Present | B.Tech | Indian Institute of Technology, Guwahati | 9.00 (Current)
2014 | Senior secondary | CBSE board | 97.0%
2012 | Secondary | CBSE board | 10.0
Experience
XYZ Engineer at 'ABC' May 2016 - July 2016
Analysed app usage statistics to recommend items based on user's preference. www.abc.in
XYZ Engineer at 'ABC' Dec 2015
Designed methods to improve the existing unit test mechanism. www.abc.in
Publications
Advanced analysis of damping motion PCES 2010
Mentors
Efficient ranking of search results LOCS 2010
Mentors
Projects
Project title Ongoing
Project Mentor
Type here to search
ENG
10:34
07-03-2023


(3) WhatsApp
Resume generator
localhost/2023/Resume%20Builder/
VIEW INSTRUCTIONS
PRINT AS PDF
Template settings
Use official IITG template
Use custom template
Minor Show Hide
Contact lines 3 4 5
Horizontal margin 1 2 3 4 5 6
Line spacing 1 2 3 4 5 6
Center column no. 1 2 3 4
Show/Hide sections
Lists and points
+ Insert sub-list
<< Decrease indentation
>> Increase indentation
List style :
Education
Experience
Publications
Projects
Technical Skills
Positions of Responsibility
Achievements
Key courses taken
Extra curriculars
References message
+91-3456799999
poovizhi@gmail.com
abc@iitg.ac.in
www.linkedin.com/in/xyz123
github.com/xyz123
CGPA/Percentage
9.00 (Current)
97.0%
10.0
Experience
XYZ Engineer at 'ABC' May 2016 - July 2016
Analysed app usage statistics to recommend items based on user's preference. www.abc.in
XYZ Engineer at 'ABC' Dec 2015
Designed methods to improve the existing unit test mechanism. www.abc.in
Publications
Advanced analysis of damping motion PCES 2010
Mentors
Efficient ranking of search results LOCS 2010
Mentors
Projects
Project title Ongoing
Project Mentor
Type here to search
ENG
10:35
07-03-2023


(3) WhatsApp
Resume generator
localhost/2023/Resume%20Builder/
Font type 1 2 3 4
Title case Default Uppercase
Title style Ruled Shaded
Title rule position Above title Below title
Image Show Hide
Roll No Show Hide
Course 1 line 2 lines
Table border Show Hide
Education year column First Last
Experience layout L1 L2
Projects layout L1 L2
Show/Hide sections
Lists and points
+ Insert sub-list
<< Decrese indentation
>> Increase indentation
List style : ○ ● ■ - 1. i. A. a.
1. Sub-point 1 : Description
2. Sub-point 2 : Description
1. Sub-point 1 : Description
2. Sub-point 2 : Description
Operating system : Windows, Linux
* Elementary proficiency
POSITIONS OF RESPONSIBILITY
XYZ Head, ABC 2016 (the annual XYZ of IIT Guwahati)
City representative, New Delhi, ABC 2015
ACHIEVEMENTS
ABC contest 2016 : Secured 1st position in the National level contest.
Joint Entrance Examination 2014 : Secured All India Rank 1 among 0.15 million candidates appearing for the test.
KVPY 2013-14 : Obtained the National research fellowship scholarship by securing a position in top 1%.
ABC Olympiad 2014 : Qualified for the international stage by securing top position in following stages :
1. Qualifiers stage : Bagged 20th position among 5000 candidates.
2. National level : Bagged 7th position among 250 candidates.
KEY COURSES TAKEN
Computer lab
Process design
Statistics *
Advanced calculus
XYZ architecture *
ABC lab *
* To be completed in Nov 2016
EXTRACURRICULARS
ABC workshop : Attended a 3-day workshop on Image sensing satellute development.
ABC contest 2016 : Secured 1st position in the National level contest.
Type here to search
ENG
10:40
07-03-2023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Roll No
Course
Table border
Education year column
Experience layout
3/7/23, 10:42 AM Resume generator
POOVIZHI
Roll Number : 140101XXXX
B.Tech - XXX Engineering
Minor in XXX
Indian Institute of Technology
+91-3456799999
poovizhi@gmail.com
abc@iitg.ac.in
www.linkedin.com/in/xyz123
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Project title Apr 2016
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TECHNICAL SKILLS
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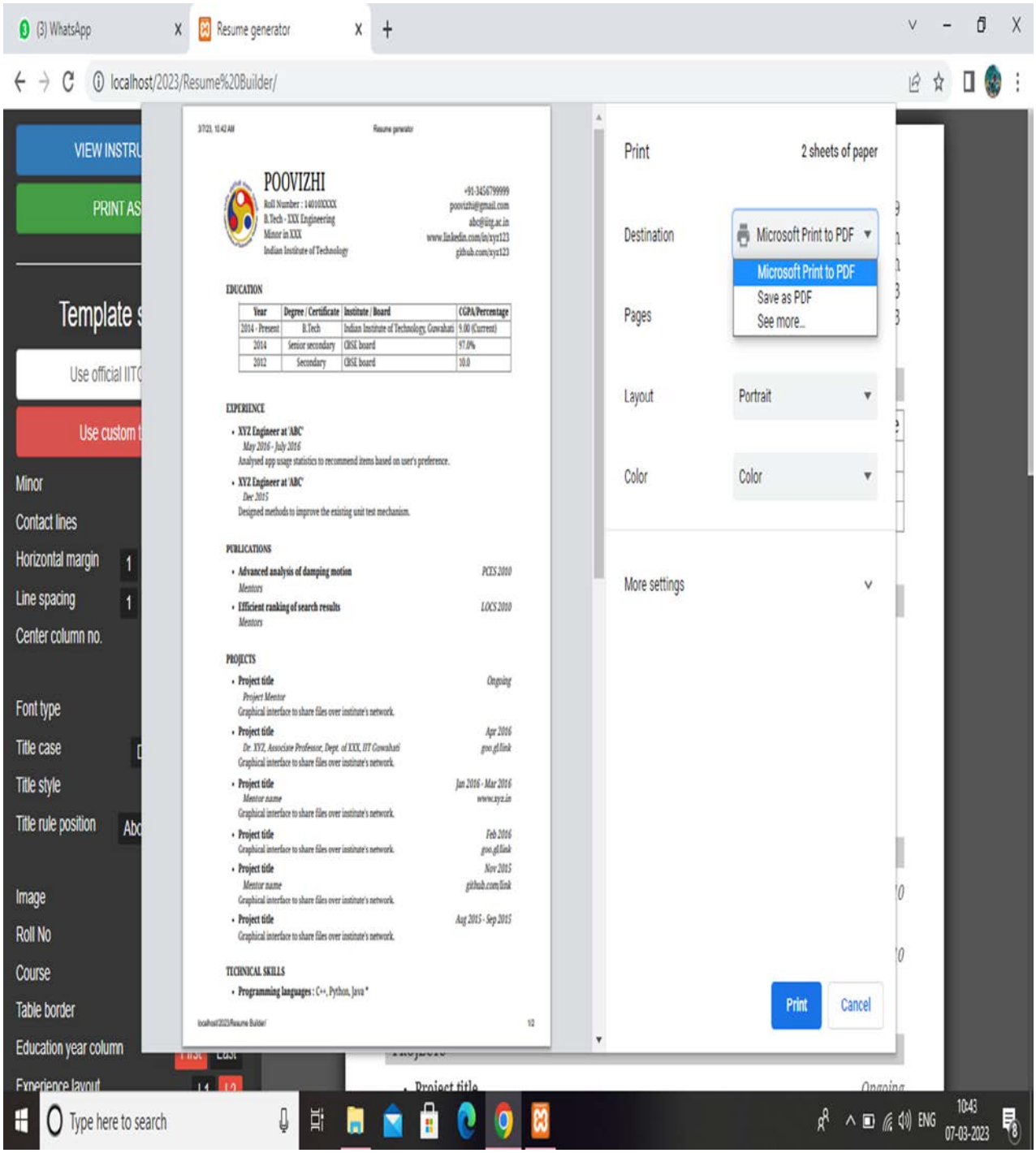
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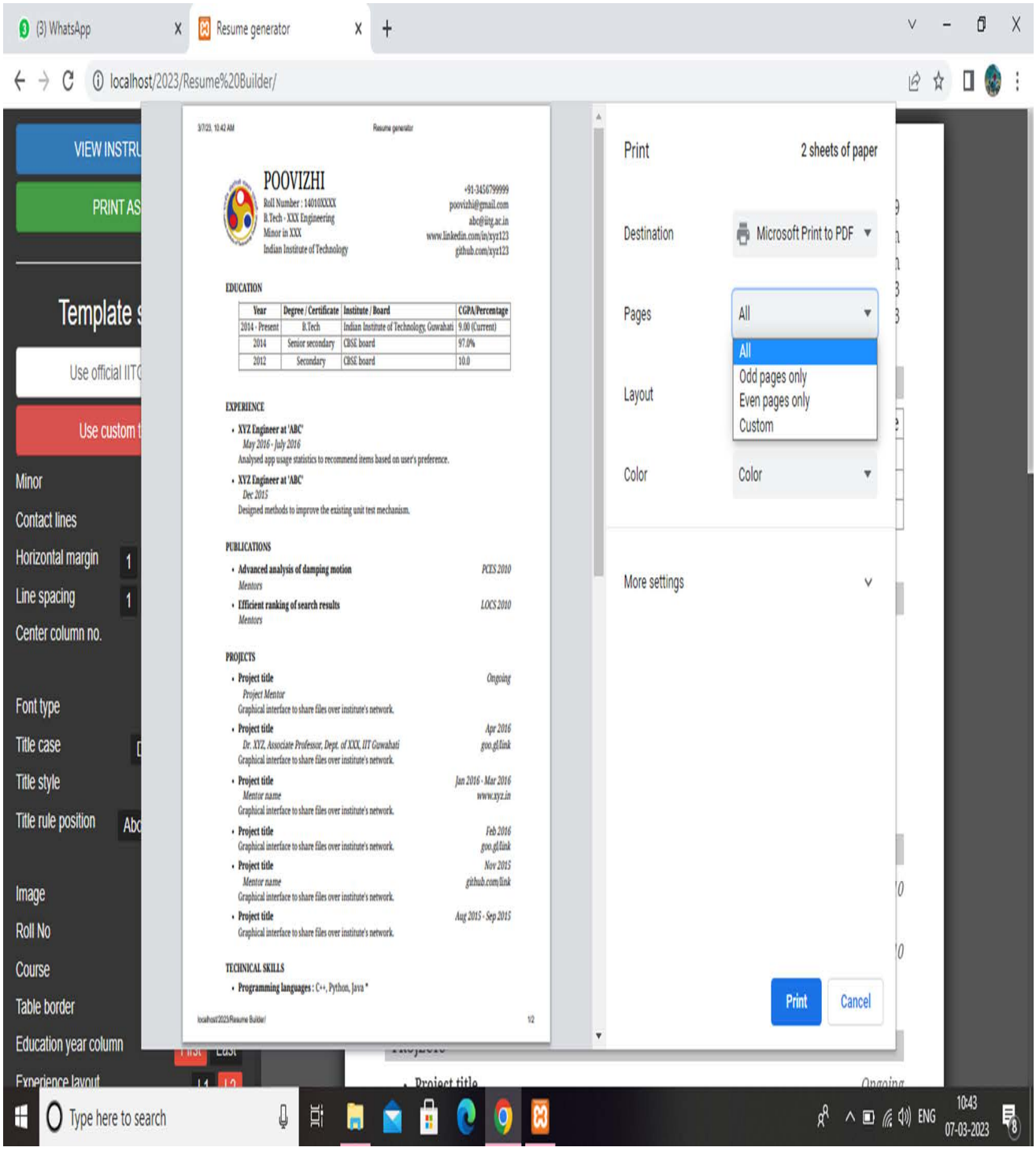
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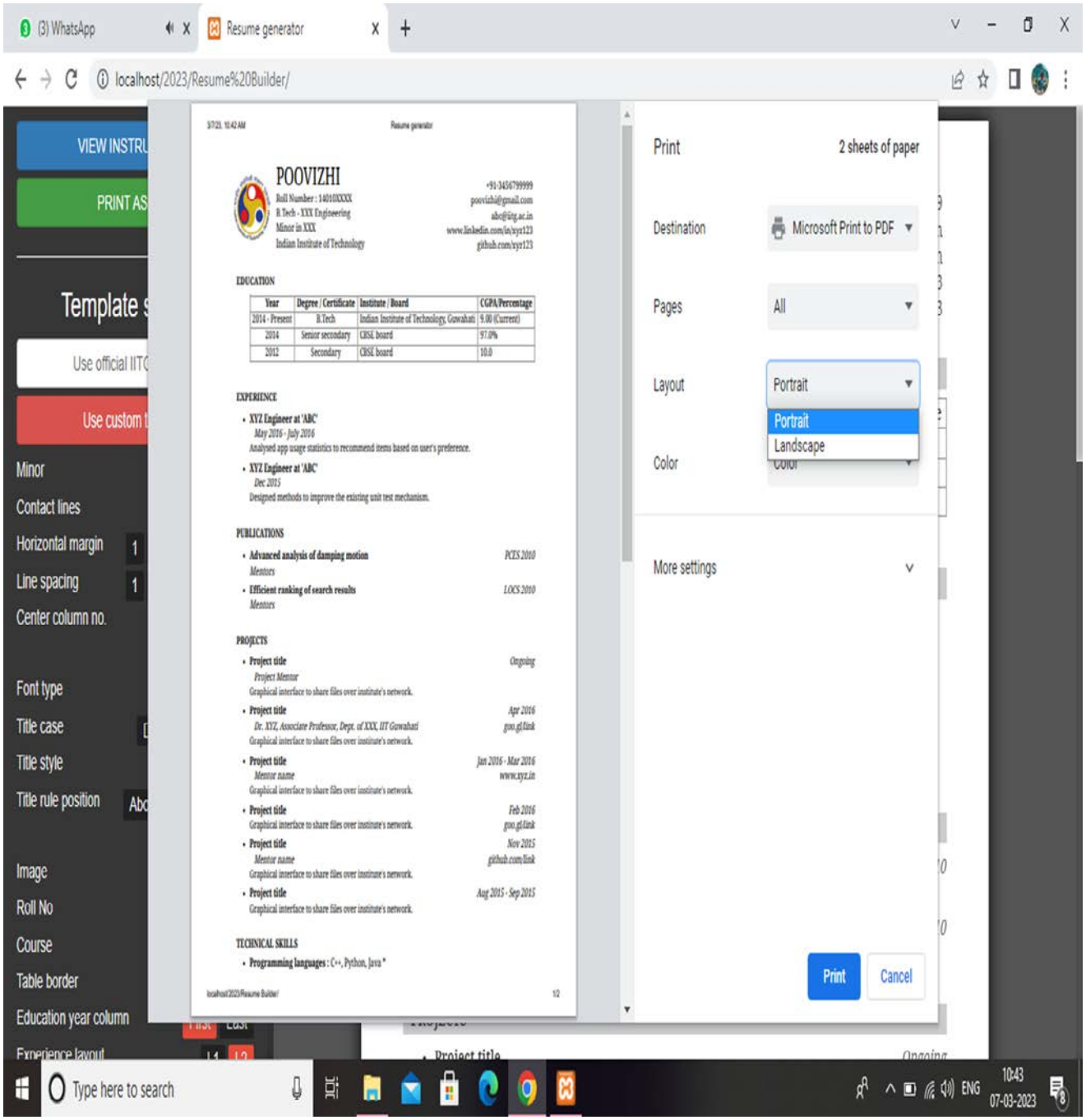
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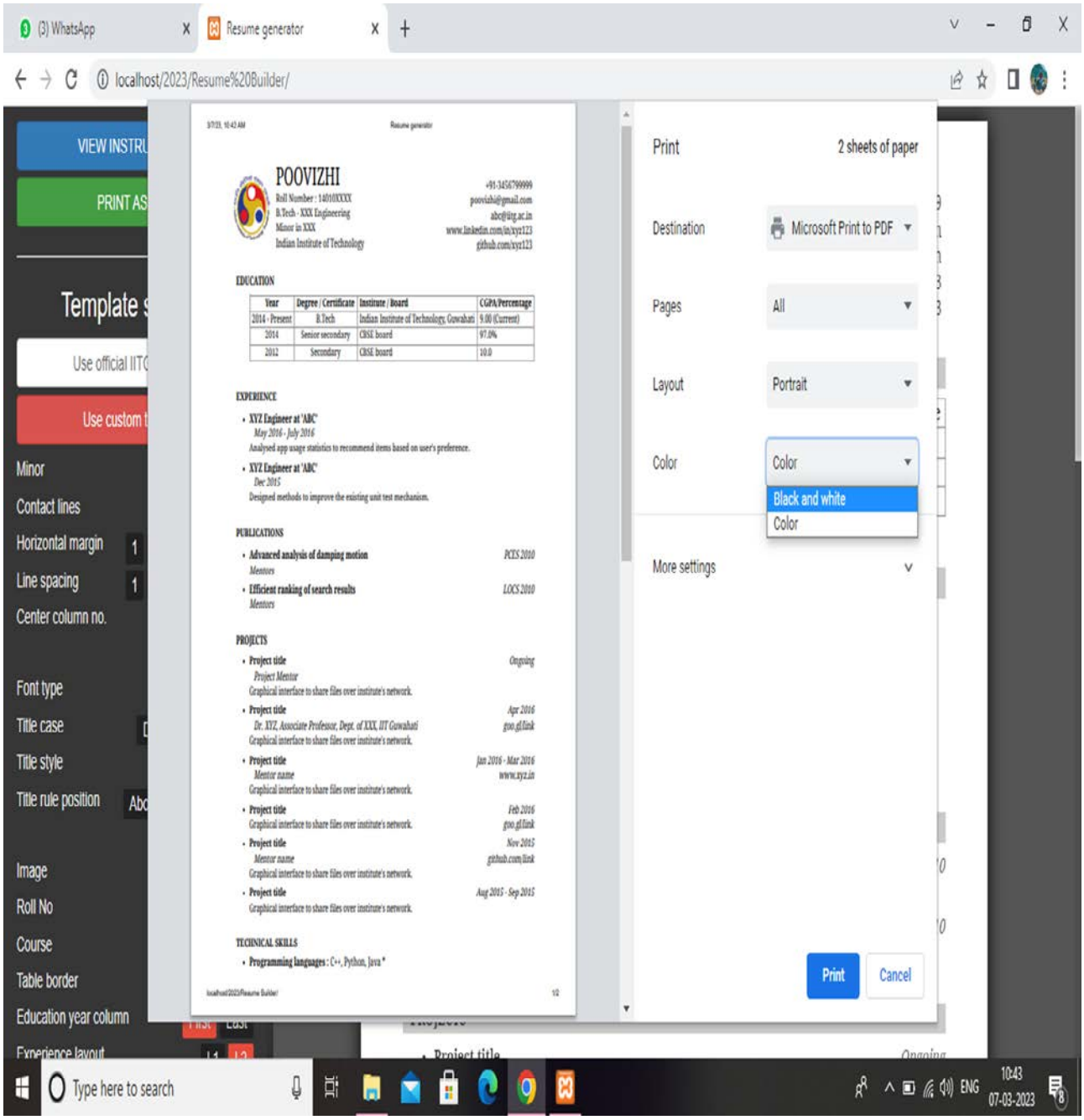
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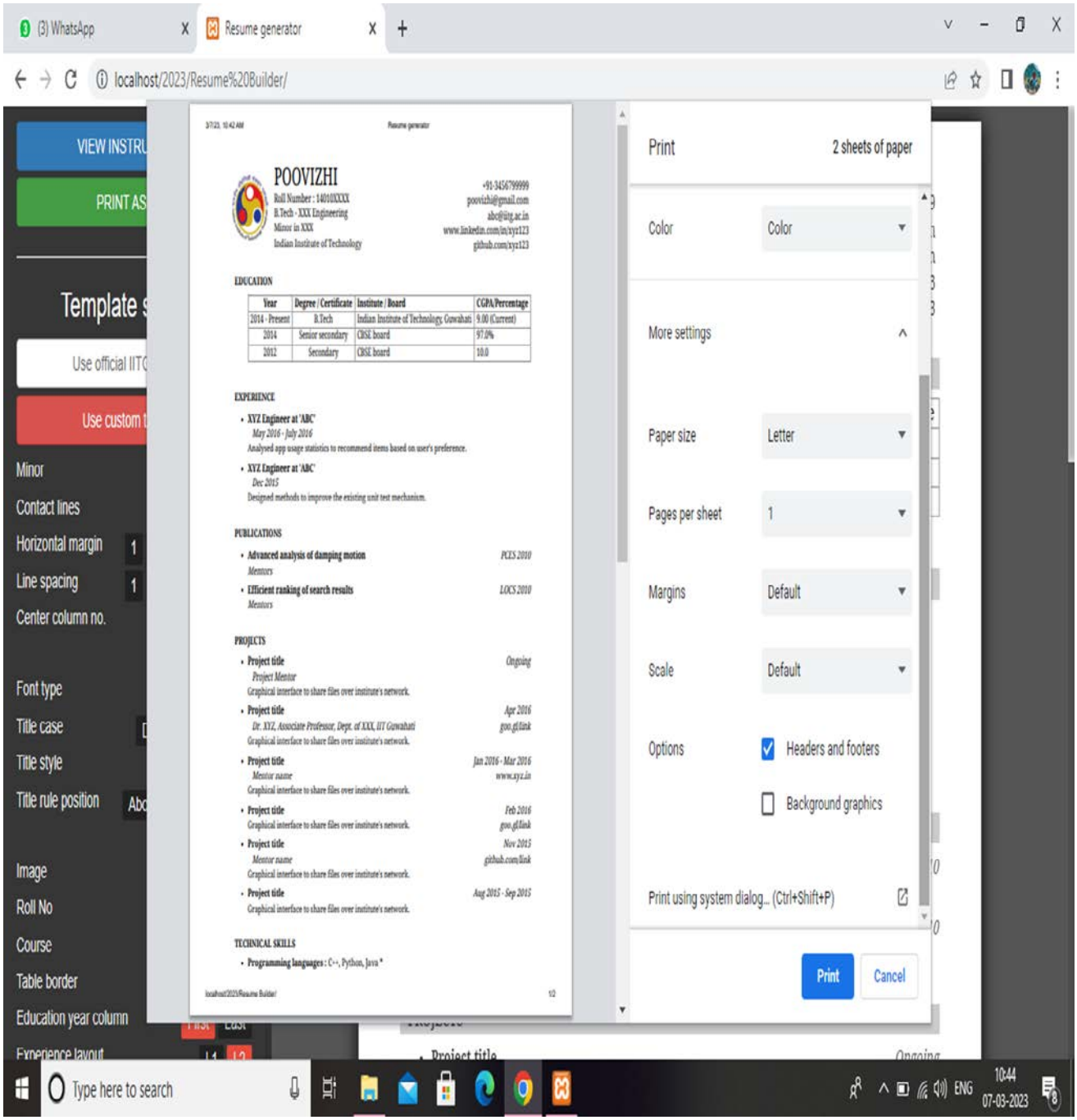
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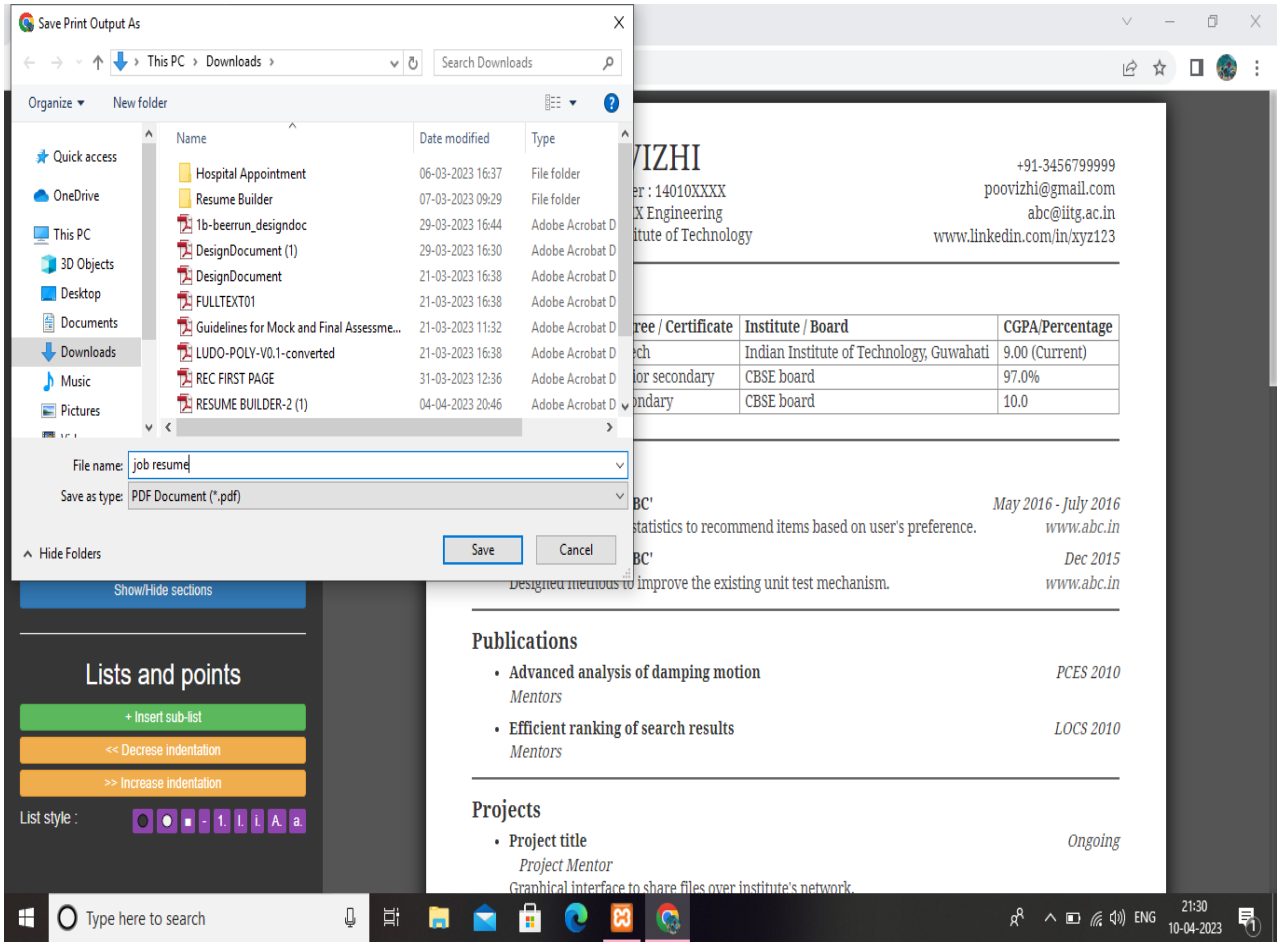
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VIZHI
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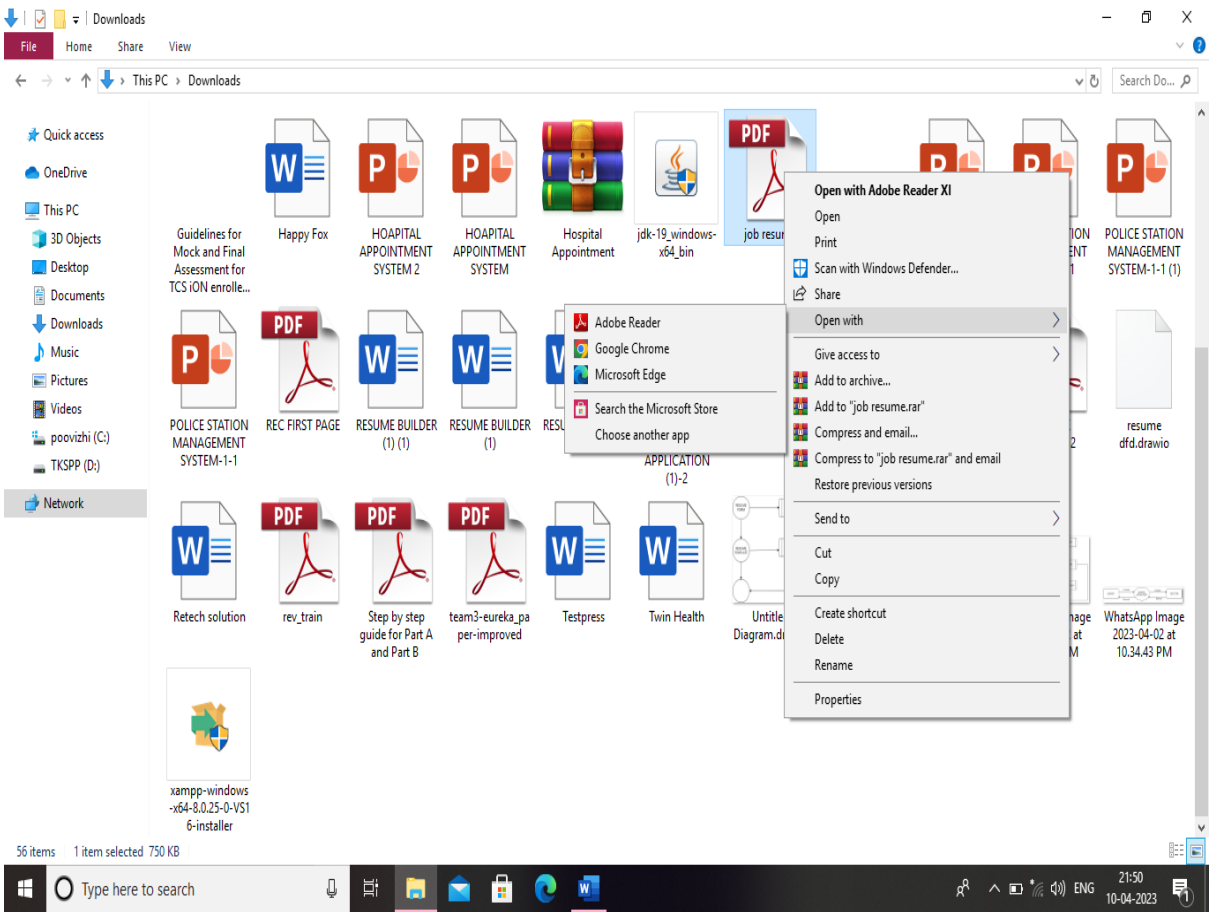
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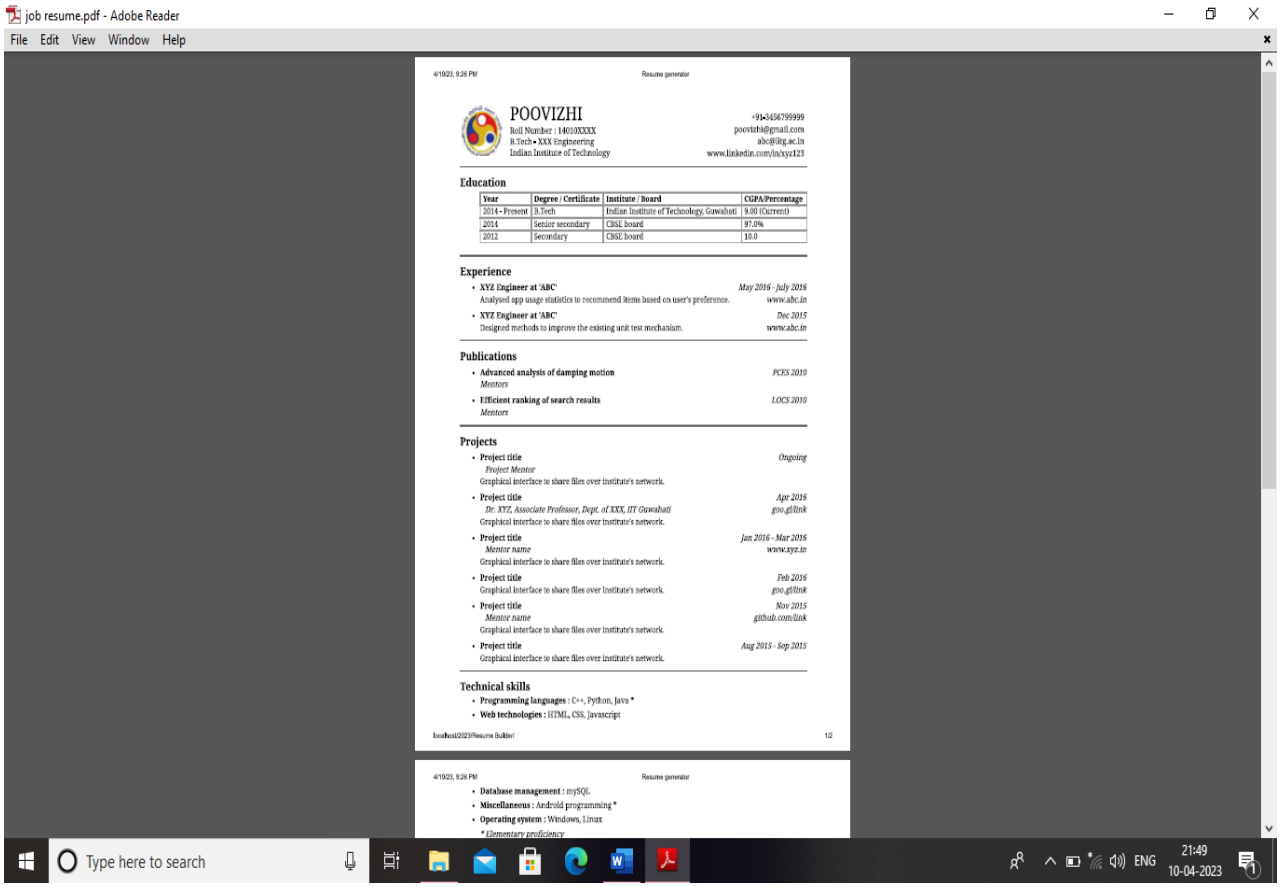
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Web technologies : HTML, CSS, Javascript
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Database management : mySQL
Miscellaneous : Android programming *
Operating system : Windows, Linux
* Elementary proficiency
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