**CV GENERATOR**

**Introduction**

**Purpose** : The purpose of this project is to create a web-based platform for employees of Thinkitive Technology to input their personal and professional information. The platform will serve as the source data for generating professional and standardized CVs that can be used by the sales team to showcase the skills and experience of employees to potential clients. The goal of the project is to provide a centralized and efficient way for the company to collect and utilize employee information, ultimately attracting new client projects

**Scope** : The scope of this project includes the development of a web-based platform for employees to input their personal and professional information, and a CV generator that uses this information to create professional and standardized CVs. The platform will include a user-friendly interface for employees to input and update their information, and the CV generator will be designed to ensure that CVs are consistently formatted and accurately reflect the information entered by employees. The project scope does not include the integration of the platform with other systems or the implementation of advanced features such as resume tracking or analytics."

**Background** : "Thinkitive Technology is a rapidly growing software development company that specializes in delivering high-quality solutions to clients across various industries. The company has a diverse and talented workforce, and it is essential for the company to effectively showcase the skills and experience of its employees to attract new client projects. In the past, the company has relied on manual processes to generate CVs, which can be time-consuming and prone to errors. To address this issue, the company has decided to invest in the development of a centralized and automated platform for generating professional and standardized CVs."  
  
**Objective** :   
To develop a user-friendly web-based platform for employees to input and update their personal and professional information.

1. To create a CV generator that uses the information entered by employees to generate professional and standardized CVs.
2. To ensure that CVs are consistently formatted and accurately reflect the information entered by employees.
3. To reduce the time and effort required to generate CVs compared to manual processes.
4. To provide the sales team with a centralized and efficient way to showcase the skills and experience of employees to potential clients.
5. To increase the chances of attracting new client projects by demonstrating the expertise of the company's employees.
6. To improve the overall image of Thinkitive Technology by presenting its employees in a professional and standardized manner.

**Requirements** :

1. User Management: A system for managing user accounts, including the ability to create new accounts, update existing accounts, and delete accounts as needed.
2. CV Input: A user-friendly interface for employees to input and update their personal and professional information, including their name, contact information, education, work experience, skills, and more.
3. CV Generation: A CV generator that uses the information entered by employees to generate professional and standardized CVs in a consistent format.
4. Customization: The ability to customize the CV format and style to meet the needs of the sales team and clients.
5. Data Security: Measures to protect the confidentiality and security of employee information, including password-protected access and secure data storage.
6. User Access: A system for controlling user access to the platform, including different levels of access for employees and the sales team.
7. Error Handling: Error handling and validation mechanisms to ensure that the platform operates smoothly and accurately.
8. Reporting: A reporting system that provides data on platform usage and employee information, including the number of CVs generated and the number of employees using the platform.

**Architecture** :   
Front-end: A user-friendly interface built using a modern web framework, such as Angular or React, that allows employees to input and update their personal and professional information.

1. Back-end: A server-side component built using a technology such as Java with Spring Boot that provides the logic for storing and retrieving employee information, generating CVs, and performing other tasks.
2. Database: A relational database, such as MySQL or PostgreSQL, used to store employee information and CV data.
3. Security: Security measures, such as encryption and authentication, to protect the confidentiality and security of employee information.
4. Deployment: The platform will be deployed on a cloud-based infrastructure, such as Amazon Web Services or Google Cloud Platform, to ensure high availability and scalability.

**User Interface :** Login: A secure login page that allows employees to access the platform using their username and password.

1. Profile: A dashboard that displays the employee's personal and professional information, including their name, contact information, education, work experience, and skills.
2. CV Input: A form for entering and updating employee information, including their name, contact information, education, work experience, and skills. The form will be easy to use and will include input validation to ensure that the information entered is accurate.
3. CV Preview: A preview of the CV generated from the employee's information, allowing employees to see what their CV will look like before it is generated.
4. CV Download: The ability to download the generated CV in a commonly used format, such as PDF or Word, for easy sharing and distribution.
5. User Management: An interface for managing user accounts, including the ability to create new accounts, update existing accounts, and delete accounts as needed.
6. Reporting: A reporting system that provides data on platform usage and employee information, including the number of CVs generated and the number of employees using the platform.

**Technical Details :**   
The technical details of a software system describe the specific technologies, tools, and components used to build it. Technology Stack: The platform will be built using Java with Spring Boot for the back-end and a modern web framework, such as Angular or React, for the front-end.

1. **Database**: The platform will use a PostgreSQL relational database,to store employee information and CV data.
2. **Security**: The platform will implement security measures, such as encryption and authentication, to protect the confidentiality and security of employee information.
3. **Deployment**: The platform will be deployed on a cloud-based infrastructure, such as Amazon Web Services or Google Cloud Platform, to ensure high availability and scalability.
4. **Development Environment**: The development team will use a range of tools and technologies, including integrated development environments (IDEs) like Eclipse or IntelliJ IDEA, version control systems like Git, and project management tools like JIRA or Trello.
5. **Testing**: The platform will undergo thorough testing, including unit testing, integration testing, and user acceptance testing, to ensure that it meets the requirements and performs as expected.
6. **Documentation**: Detailed documentation, including architecture diagrams, code comments, and user manuals, will be produced to ensure that the platform is easy to understand and maintain.

This sample description of the technical details provides a high-level overview of the specific technologies, tools, and components that will be used to build the CV generator application. The exact details of the technical details will be refined during the design phase of the project and may change as the project progresses.

**Test Plan :**A test plan outlines the strategy, approach, and resources required to validate the functionality and quality of a software system. Objectives: The objective of the testing phase is to validate that the CV generator application meets the requirements and performs as expected.

1. Test Types: The testing will include unit testing, integration testing, and user acceptance testing.
2. Test Environment: The testing will be performed on a dedicated test environment that mirrors the production environment as closely as possible.
3. Test Data: A range of test data, including valid and invalid input, will be used to validate the platform's behavior and performance.
4. Test Cases: Detailed test cases, covering a range of scenarios and user stories, will be developed and executed to validate the platform's functionality.
5. Test Tools: A range of testing tools, such as automated testing frameworks and testing management tools, will be used to streamline the testing process and improve efficiency.
6. Test Schedule: The testing phase will be scheduled in line with the overall project schedule, and testing activities will be tracked and monitored to ensure that they are completed on time.
7. Test Resources: The testing phase will require dedicated resources, including test analysts and developers, to ensure that the testing is thorough and comprehensive.

**Deployment :**Deployment Environment: The platform will be deployed on a cloud-based infrastructure, such as Amazon Web Services or Google Cloud Platform, to ensure high availability and scalability.

Deployment Steps: The deployment process will involve the following steps:

Provisioning of the deployment environment

Installation and configuration of the platform components

Deployment of the platform code and database

Configuration of security and network settings

Integration of the platform with any third-party systems

Testing and validation of the deployed platform

Deployment Schedule: The deployment phase will be scheduled in line with the overall project schedule, and deployment activities will be tracked and monitored to ensure that they are completed on time.

Deployment Resources: The deployment phase will require dedicated resources, including system administrators, network engineers, and developers, to ensure that the deployment is completed smoothly and efficiently.

Deployment Documentation: Detailed deployment documentation, including step-by-step instructions, configuration files, and network diagrams, will be produced to ensure that the platform is easy to maintain and upgrade.

**Maintenance :**   
Maintenance Scope: The maintenance of the CV generator application will include bug fixing, performance tuning, and the addition of new features and functionality.

Maintenance Schedule: Regular maintenance activities, such as bug fixing and performance tuning, will be performed on a periodic basis, such as weekly or monthly, to ensure that the platform remains stable and performs as expected.

Maintenance Resources: The maintenance phase will require dedicated resources, including developers and system administrators, to ensure that the platform is maintained effectively and efficiently.

Maintenance Documentation: Detailed maintenance documentation, including release notes, change logs, and technical specifications, will be produced and maintained to ensure that the platform is easy to maintain and upgrade.

Maintenance Budget: A maintenance budget will be allocated and managed to ensure that sufficient resources are available to perform regular maintenance activities and add new features and functionality.