



## Certificate Generator

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### ABSTRACT

This paper presents an e-certificate generation system with elegant template designs that contributes to the environment by saving trees and organizational resources with concise planning and effective management of records. The system is not only designed and developed to save paper but also to organize the distribution in an effective way to minimize aberration and speed up the process 100 times it usually takes with a simple and user-friendly design interface. This research work enables an end-user to choose their desired certificate template and template format without any prerequisite knowledge just by clicking a few buttons and typing from the system GUI.

**Keywords:** Certificate, Certificate generation, Certificate template.

### I. INTRODUCTION

The usage of computer software is widespread. Several organizations perform their daily activities more efficiently using applications founded by the use of computer science knowledge. Certificate Generation System can be used in various universities and organization to automate the distribution of digitally verifiable certificates to ease the work. This system verifies the participants' information from the access database and generates the certificates of all the participants in a portable document format. The system is designed and developed to dynamically generate certificates based upon the user's entered information. Information of the participants can be imported, deleted, and added for effective customization. It also provides the availability of elegant built-in templates to meet user needs and enlivening the participants for their mesmerizing talent and innovative ideas. The certificates generated in bulk would be downloadable in a compressed format. The system provides user interface design for user experiences to achieve great results. A login and signup system are available to authenticate the access to the users for the accounts. The user needs to enter the organizational details and create the event for the generation of certificates. The user is asked to select the templates amongst the available template designs. The participant details would be entered by the user and the generated certificates.

### II. LITERATURE SURVEY

When we were asked to think about a relevant topic for our final year project, we thought of several topics and rejected them for some or the other reason. Later, we thought of finding and issue which a normal human being faces and develop a software to overcome the same. After a lot of research we found about how paper certificates usually degrade over the years or get misplaced making them irrelevant. So, we decided upon the application which will generate certificates online which will remain with us for many years. The system is designed and developed to dynamically generate certificates based upon the user's entered information. Information of the participants can be imported, deleted, and added for effective customization. It also provides the availability of elegant built-in templates to meet user needs and enlivening the participants for their mesmerizing talent and innovative ideas. The certificates generated in bulk would be downloadable in a compressed format. Certificate generator is packed with loads of free resources including a variety of templates, fonts and icons that you can use to create certificates. You can customize it any way you want and download print-ready high-resolution files for free. It can create a professional certificate with free certificate templates provided in this Certificate Generator. It will become very easy to generate Certificate Template at home by simply using Certificate Generator and make easy access to designing certificate and award giving. Certificates Download free e-certificate templates with formal certificate borders to personalize.

### III. PROPOSED DETAILED METHODOLOGY

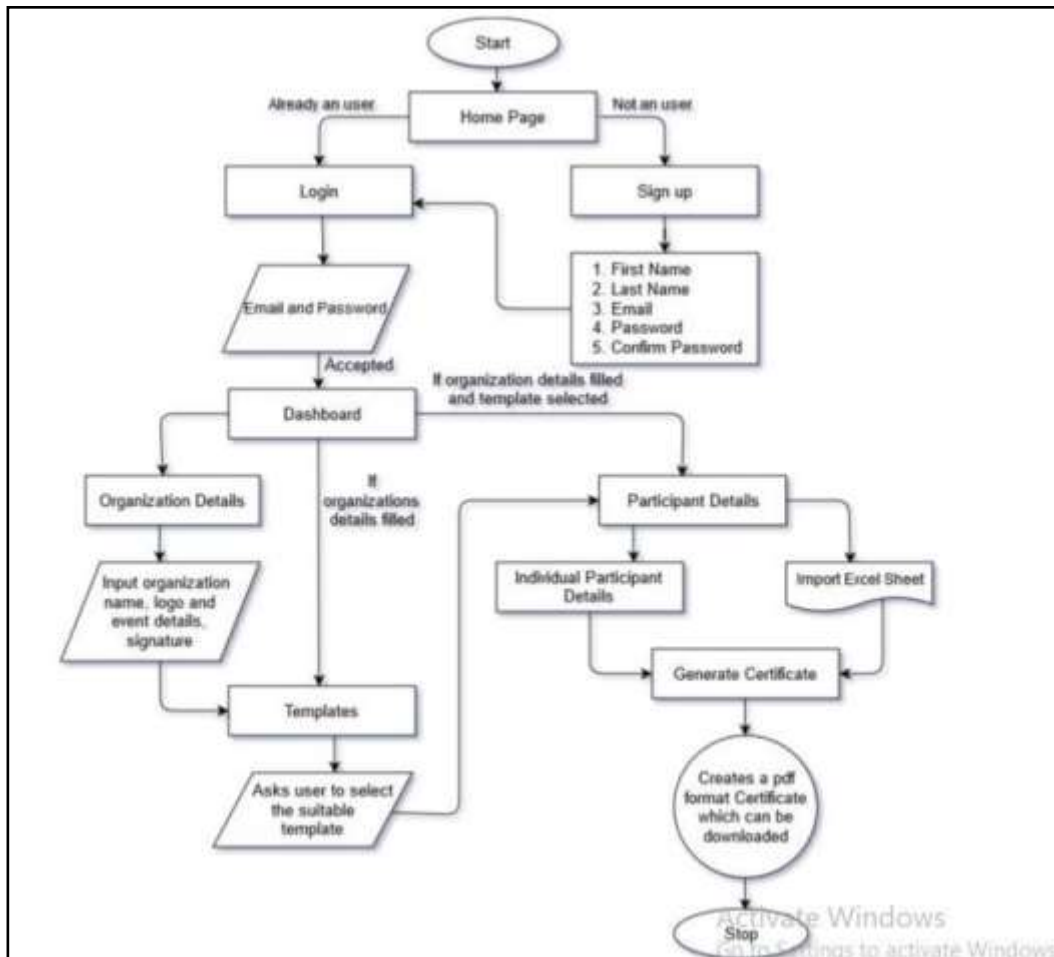
Developing this project for better usage and experience becomes very important considering the scope of this project going live. In order to develop this project efficiently, we communicated with our project guide and also a couple of corporate developers who are known to us. By discussing with them, we intended to understand how a website/mobile application is developed in actual corporate world and what procedure we should follow to have a smooth development of the project. Our understanding everything and having internal discussion with the team members, we planned our project methodology. We would first finalize the features and specifications which shall be implemented in our project. Once we have a clear vision of features

to be implemented, we would be first design the web app with an intention to have a decent UI UX. UI which stands for User Interface is to design how the user will see the website, what color combinations and buttons our web app will be having, and how every page of website will look like. UX which stands for User Experience is to design a website keeping in mind the experience a user. This includes to think on where the button shall be placed, a click on button should display which page, to summarize in short, it aims to make sure the user has convenient and efficient user experience so that they wish to re-visit the web app. Once we have our design ready and approved from project guide, we would be starting with development of actual project. For which, we shall be using development languages like: HTML CSS, JavaScript, MySQL and PHP. The major thing in our development phase shall be to integrate APIs of planned commute platforms. Once we have our web app developed and ready, we shall proceed with one of the important things of software development life cycle – Testing. If we want our platform to go live and be of maximum usage to the society, we will have to test the web app to ensure it is bugs free, there doesn't lie any fault in the project and will not fail. For testing as well, we shall be classifying the process into multiple steps to ensure it is tested as much as possible. Once the testing is done, we intend to make this project go live.

#### IV. MODELING AND ANALYSIS

The main focus of the modeling and analysis is to provide a detailed report on the modeling of the report. In this section we present the graphs and charts to show the analysis and the glimpse of our research work. This contains very useful information regarding the modeling of the research. In this we have made a website named certificate generator.

##### Flowchart:



#### V. PROBLEMS / ISSUES FACED

Although many problems were solved by startups of such platforms, through our survey we found a major issue which the society is currently facing. The problem is that: The process is not only time consuming but also, incompetent. The project intends to save human efforts, time and natural resources. Paper certificates can become irrelevant after few years as the ink on them deteriorates over time or they can often get misplaced or lost whereas e-certificates are easier to manage and reduced risk of loss or damage. The latest e-Certificate is always accessible and downloadable. There is a reduction in the number of test prints and sample prints being taken, reducing paper wastage. The certificate generator module also generates a certificate to the staff or student it is endorsing electronically, eliminating the need for a paper and ink certificate, unless the person themselves desires it.

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## VI. REQUIREMENTS

**We shall be requiring below mentioned Hardware to ensure smooth processing and development experience:**

Desktop or Laptop, Processor i3 or above, minimum 2GB RAM, any Operating system

• **The technology stack/software which we shall be requiring are as below:**

HTML – CSS for designing of the web application

JavaScript for making the web app functional

MySQL to manage the database of users

PHP for backend functionality

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## VII. CONCLUSION

After many survey we concluded our topic as 'Certificate Generator'. Because creating and issuing certificates brings many benefits for both those who receive certificates and the institutions issuing them. But it will turn into a hurdle that requires hours of manual work and costs your company lots of money compared to the benefits. So to make certificate generation a real advantage for your course, webinar, or online school, as it reduce your efforts.

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## VIII. REFERENCES

1. Srushti A. Shimpi, Sanket Mandare, Aman Trivedi, Tyagraj Sonawane, "Certificate Generation System" in International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC), Volume 2, Issue 2, February 2014.
2. Samit Shivadekar, Stephen Raj Abraham, Sheikh Khalid, "Document Validation and Verification System", International Journal of Advanced Research in Computer Engineering & Technology (IJARCET), Volume 5, Issue 3, March 2016.
3. Ahmed Dalhatu Yusuf, Moussa Mahamat Boukar, Shahriar Shamiluulu, "Automated Batch Certificate Generation and Verification System" in IEEE, November 2017.
4. Dejan Gjorgjevikj, Gjorgji Madjarov, Ivan Chorbev, Martin Angelovski, Marjan Georgiev, and Bojan Dikovski, "ASGRT Automated Report Generation System" in International Conference on ICT Innovations, January 2011.