

Certificate Generation System

Synopsis

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Abstract

The certificate generation system is flexible for generating progress reports of students. this application is mainly based on the database technology. the system is targeted to small enterprises, schools, colleges and universities. it can produce sophisticated ready-to-use Certificates, which could be created and will be ready to print.

Certificate Generation System is a portable application used to Generate Certificate for single candidate providing his/her details along with image.

As well as for Batch/Number of candidates by simply providing the CSV format file (containing details of every candidate) along with candidate images in a compressed (tar.gz or zip) folder.

This project aims at developing a certificate generation system which can be used in universities to automate the distribution of digitally verifiable student result mark sheets

These methods have been developed in previous work, but they were strongly dependent on particular programming and verification settings. This project provides a more general development in the setting of abstract interpretation, showing the scalability of certificate generation system.

Also, this project is completely open source and the entire code is available to the user as and when required. There is Complete developer's Documentation as well as User manual alongwith it that helps using it a lot easier.

Introduction



Figure 2.1: Sample Template

- This System is used to Generate Certificate for single candidate providing his/her details.
- This will also contain candidate's image.
- One can also give Batch/Number of candidates by simply providing the CSV format file (containing details of every candidate) along with candidate images in a compressed (tar.gz or zip) folder.
- Also used by many Organisations and other sectors for honouring individuals.
- This can generate the end output (i.e Certificate) in various graphic forms.
- This application is a portable application.
- This is a cross-platform application.
- This has an application in Award Functions etc.
- This project can be used in various Universities, schools etc.

2.1 Existing System

- Our project is having its USP i.e, it can provide output in more than one format. Certificates can be seen in .pdf or .odt formats.
- These methods have been developed in previous work, but they were strongly dependent on particular programming and verification settings.
- This project provides a more general development in the setting of abstract interpretation, showing the scalability of certificate generation system.
- It can deal with Csv format files.

2.2 User Requirement Analysis

1. Apache Web-Server
2. PHP Interpreter
3. unoconv
4. python3-uno

2.3 Objectives of Project

- This project can be used in various Universities, schools etc.
- This can generate the end output (i.e Certificate) in various graphic forms.
- Also used by many Organisations and other sectors for honouring individuals.

Project Design

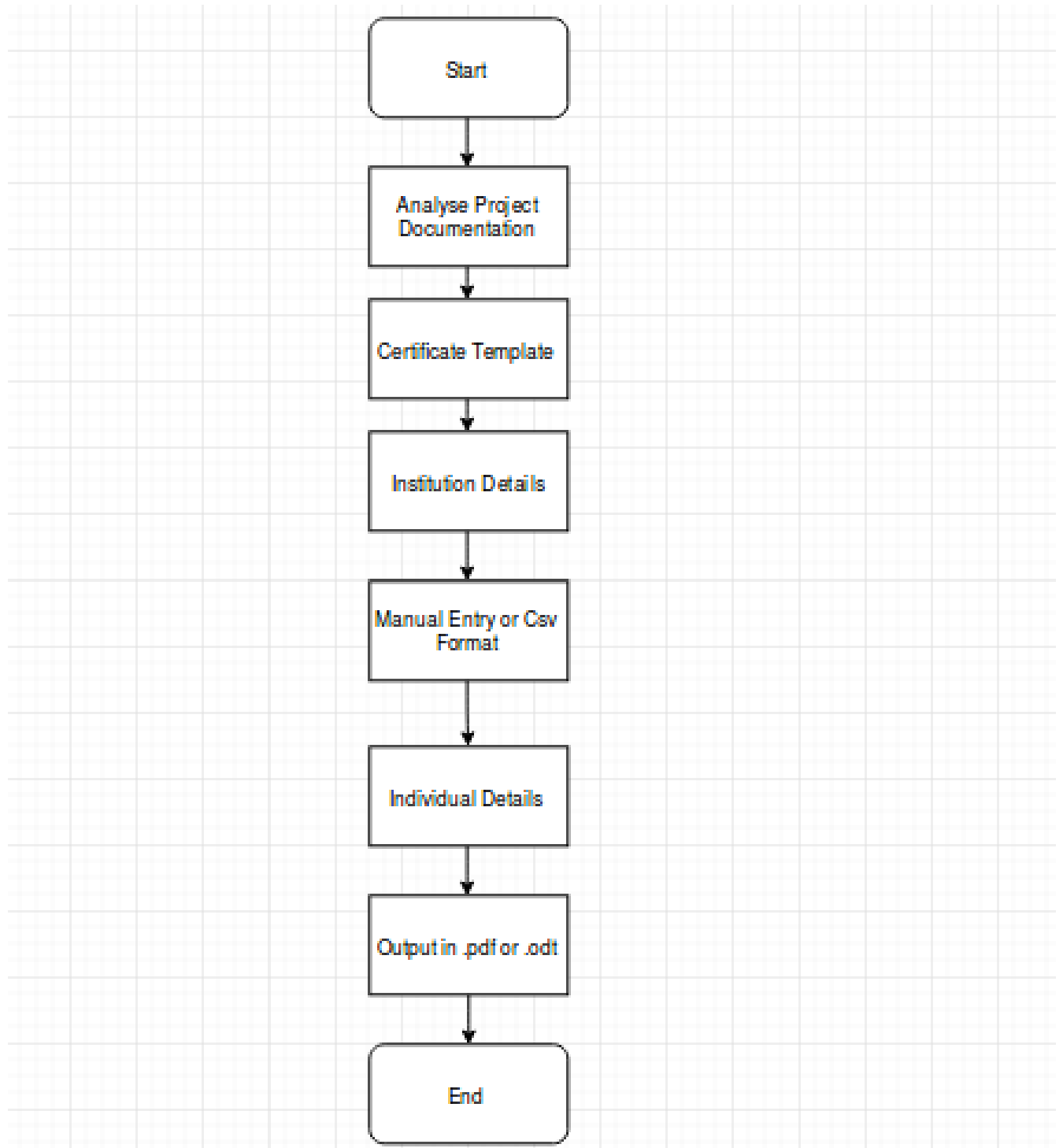


Figure 3.1: Flowchart of project

Development and Implementation

User Manual

It could also deal with CSV Format. CSV(Character Separated File) is a simple file format used to store tabular data, such as a spreadsheet or database. Files in the CSV format can be imported to and exported from programs that store data in tables, such as Microsoft Excel or OpenOffice CAs the Name "Certificate Generation System" Implies this application is used to generate certificate in an automated manner in few steps:

1. Select Design from the images shown on the first page. (Put mouse pointer over the image to see larger view.)
2. Next Page will be page for entering College Details.
 - Fill in the details of institution for which the certificate(s) is to be made.
 - Place mouse pointer over Input box to see an example for that input.
3. Next page will show two options
 - Manual Entry -> Select it for Generating Certificate for Single candidate.
 - Upload Csv File -> Select it for Generating certificate for more than 1 candidate by providing their details in Csv file.

Procedure

Manual Filling

- On Selecting Manual Entry Next page will open containing input boxes for candidate Details.
- Enter the details and select the image also.

Also by clicking on "Generate Another Certificate" you can generate another certificate with same design & institute details and different Candidate Details. And by clicking on "Goto First Page" you can again start from Design Selection Page.

Csv Format

1. On selecting 'Upload csv File' Next page will open containing the conditions for the files to be uploaded for certificate generation.

2. A sample file can be downloaded from the link provided in the 'Note' in the instructions on page.
3. Sample file is a zip file named sample.zip containing the csv file and .zip file for images.
4. Extract it and then sample certificates can be produced using 'sample.csv' and 'images.zip' files.
5. That's it your certificate file is produced for all the candidates provided in the csv data file.

Download

The final result i.e Certificate can be saved in more than one format:

- pdf (portable document format)
- Any other format eg. odt etc.