

# Automatic Report Generation for NBA Criteria 1 to 5

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**Abstract :** The idea to make something useful for academic environment has led us to “Automatic Report Generation for NBA Criteria 1 to 5” web application with user data. The application mainly focuses on reducing the manual work that takes place while collecting the data as well as calculating the NBA criteria. It also provides additional functionality of communication between staff and students. Also, this application can be used for communicating with parents. It automatically updates the data after an academic year. After registering in the application, users will be directed towards their respective pages where they have to enter their details. Extra-curricular things activities and hostel related complaint management can also be implemented using this application.

**Keywords —** NBA, Criteria, Report, Automate, Faculty, Students

## I. INTRODUCTION

This project is all-in-one software for managing the NBA criteria of a department. This is an era of automation but still we do most of our important tasks on paper. Our proposed system helps in doing all the tasks that are essential for calculating the department to run digitally in consideration with NBA report preparation. The application helps in maintaining yearlong records in a systematic way and can be retrieved whenever one feels the need to.

The main goal of our proposed system is to automate the report generation of NBA criteria[5] once all the necessary data is uploaded to the portal. It also helps the students to communicate with the teachers for their doubts related to academics[1]. Also, teachers can upload study material. They can also communicate with the parents. Extra things like attendance and Internal examination results can be uploaded to this portal and can be viewed by students and parents to keep a record on how their ward is performing.

## II. PROBLEM STATEMENT

Designing a web application to auto generate reports of NBA Criteria 1 to 5 using the data submitted from users like students and faculty.

## III. PROPOSED SYSTEM

Outline of proposed system:

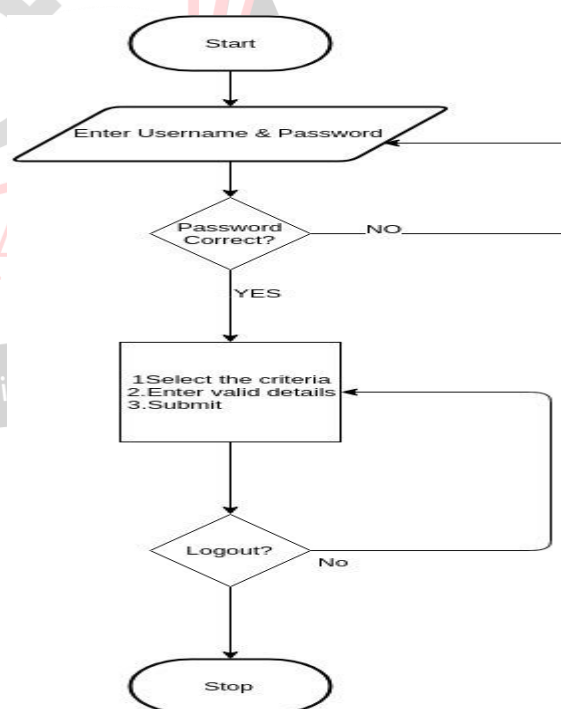
Automate most of the calculations.

- Once appropriate details have been entered the report will be generated automatically.

Give final report at the end of every academic year.

- At the end of an academic year a final report will be generated.

## IV. FLOWCHART



The flowchart above shows us the flow of data from start to stop. As we can observe from the above flowchart, the user has to enter details i.e. username and password. Once the detailed have been matched with database the system redirects the user to the page where they have to select their respective criteria and enter the valid details. Once they are satisfied with the input provided by them they will submit the form and logout of the system.

## V. METHODOLOGY

The development of Automatic Report Generation for NBA Criteria 1 to 5 is based on waterfall model also known as software life cycle. The phases in waterfall model cascades from one to another. The waterfall model is an example of a plan driven process. In principle, planning and schedules of activities must be made before starting on them. There are five phases in waterfall model. The first phase is requirement definition followed by system and software design. The third phase is implementation and unit testing. The fourth phase is integration and system testing.

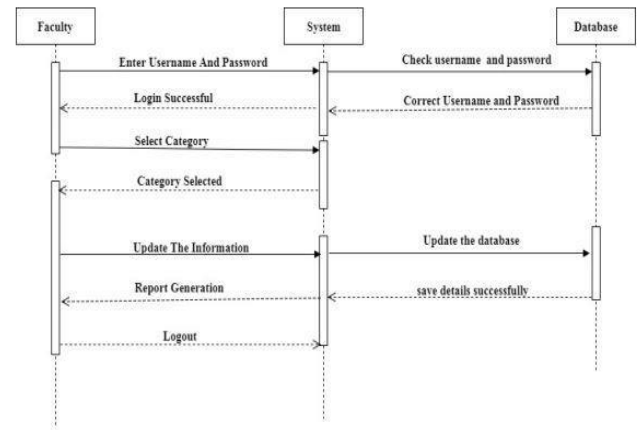
The last phase is operation and maintenance.

**A. System and Software Design** The system design process allocated the requirements to either hardware or software systems. It is done by establishing overall system architecture. Data flow diagram, flow chart and entity relationship diagram are designed to act as the foundation to the development of Automatic Report Generation for NBA Criteria 1 to 5.

**B. Implementation and Software Testing** in this phase, the front-end and back-end system are developed which includes all designed modules and the design database based on requirement of the customers. For its development, php language is used. The database was created using MySQL.

**C. Integration and System Testing** During this phase, the interfaces are linked together to ensure the navigation and flow is smooth. All functions are integrated into the system along with the database. System testing is conducted to ensure that the modules are functional and to check for errors

## VI. SEQUENCE DIAGRAM



## VII. CONCLUSION

The development of NBA management system was necessary because of the amount of time it took to generate the reports manually is greatly saved as they are automatically generated by just updating the required user and institute details. In order to keep up with growing technology, we must seek ways to make certain processes which are less time consuming and this is the reason why we designed this system.

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