***Synopsis Of***

***Exam cell Automation***

1. **Uses of this project :**

Exam cell Automation may help collecting perfect management in details. In a very short time, the collection will be obvious, simple and sensible. It will help a person to know the management of passed year perfectly and vividly. It also helps in current all works relative to Exam cell Automation. It will be also reduced the cost of collecting the management & collection procedure will go on smoothly.

Our project aims at business process automation, i.e. we have tried to computerize various processes of Exam cell Automation.

* In computer system the person has to fill the various forms & number of copies of the forms can be easily generated at a time.
* In computer system it is necessary to create the manifest but we can directly print it, which saves our time.
* To assist the staff in capturing the effort spent on their respective working areas.
* To utilize resources in an efficient manner by increasing their productivity through automation.
* The system generates types of information that can be used for various purposes.
* It satisfy the user requirement.
* Be easy to understand by the user and the operator.
* Be easy to operate.
* Have a good user interface.
* Be expandable.
* Delivered on the schedule within the budget.

1. **Motivation**

The current examination process system is a complete manual work system which results in tedious work. It is necessary to mange registrations and admissions of students in periodic time at the educational institutes. The current system deals with the manual entries of the information about the students which leads the system prone to errors. The errors which might occur are the loss of data, data redundancy, time consuming process, etc.

The current system needs lot of labour work as all the activities are done manually. The current system not only increases the workload for the exam-cell staff members managing the registration and admission processes but also increases the workload for the students. The collection of Results, Mark sheets, Hall tickets become a complicated and bulky process. Managing the hard copies stack by stack becomes a tedious work for the exam-cell staff.

The system generates the Gazette copies, helps the students to preview their results of their unit tests. The students will not have to wait for the actual result date to preview these marks.

Currently the Exam cell activities includes a lot of manual calculations and are mostly paper based. This makes the process tiresome. This project aims to bring in a centralized system that will ensure the tasks and activities related with the examination can be effectively managed. The system allows the student to register themselves into the system, they can view academic status on the system. There is no need for the students to stand in the long queues for different activities such as the filling pf exam form or the k.t. form, the viewing of results, etc. The project will provide an easy and efficient way for the processes to be automated which will reduce the workload of the exam cell staff by a heavy extent.

1. **Technology Review**

* ***PHP***

PHP is a server-side scripting language designed primarily for web development but also used as a general-purpose programming language. Originally created by Rasmus Lerdorf in 1994, the PHP reference implementation is now produced by the The PHP Development Team. PHP originally stood for Personal Home Page, but it now stands for the recursive acronym PHP: Hypertext Preprocessor.

* ***MySQL***

MySQL is an open-source relational database management system (RDBMS). Its name is a combination of "My", the name of co-founder Michael Widenius’s daughter, and “SQL”, the abbreviation for Structured Query Language.The MySQL development project has made its source code available under the terms of the GNU General Public License, as well as under a variety of proprietary agreements. MySQL was owned and sponsored by a single for-profit form, the Swedish company MySQL AB, now owned by Oracle Corporation. [For](https://en.wikipedia.org/wiki/Oracle_Corporation) proprietary use, several paid editions are available, and offer additional functionality.

* ***Bootstrap***

Bootstrap is a free and open-source front-end Web framework for designing websites and web applications. It contains HTML and CSS-based design templates for typography, forms, buttons, navigation and other interface components, as well as optional JavaScript extensions. Unlike many web frameworks, it concerns itself with front-end development only. Bootstrap is the second-most-starred project on GitHub, with more than 129,000 stars.

* ***Dia***

Dia has a modular design with several shape packages available for different needs: flowchart, network diagrams, circuit diagrams, and more. It does not restrict symbols and connectors from various categories from being placed together. Dia has special objects to help draw entity-relationship models (obsoleted tedia2sql or newer parsediasql can be used to create the SQL DDL), Unified Modeling Language (UML) diagrams, flowcharts, network diagrams, and simple electrical circuits. It is also possible to add support for new shapes by writing simple XML files, using a subset of Scalable Vector Graphics (SVG) to draw the shape. Dia loads and saves diagrams in a custom XML format which is, by default, gzipped to save space. It can print large diagrams spanning multiple pages and can also be scripted using the Python programming language.

1. **Configuration**

* Processor: 7th Generation Intel core i3-7020U processor, 2.3GHz base processor speed.
* Operating System: Pre-loaded Windows 10 Home with lifetime validity.
* Display: 14-inch HD (1366x768) display.
* Memory & Storage: 4GB DDR4 |Storage:1TB HDD.
* Design & battery: Thin and light design|Laptop weight: 1.59 kg|Average battery life = 4 hours, Lithium battery.
* Warranty:This genuine HP laptop comes with 1 year domestic warranty from HP covering manufacturing defects and not covering physical damage. For more details, see Warranty section below.
* Pre-installed Software: None|In the box: Laptop with included battery, charger.
* Ports and CD drive: 1 USB 2.0,2 USB 3.0, 1 HDMI, 1 Audio-output |Without CD-Drive.