1. **Project & Title Name :**

**“Online Result System”**

1. **Objective & scope :**

* **Objective**

The main objective of the project is to develop is to an Online Result System. Therefore, the objectives that need to be implemented are as follows:

**Manage Student Information**: -Store and manage student details such as name, roll number, class, and other relevant information.

**Record Results**:- Record and manage academic results including grades, marks, GPA, and other performance indicators

**Data Security**:- Ensure data integrity and confidentiality through encryption and access control mechanisms.To provide good interactive & communication facilities between customer and administration.

* **Scope**
* **Student Portal**: A portal where students can log in to view their results, academic history, and other relevant information.
* **Teacher Portal**: A portal for teachers to input and manage student results, generate reports, and perform other administrative tasks.
* **Data Management**: Modules to handle storage, retrieval, and manipulation of student data, results, and other related information.

**3.process Description :**

* Understand the requirements of the online result system, including user roles (students, teachers, administrators), functionalities, and constraints.
* Gather detailed requirements through discussions with stakeholders and analysis of existing systems (if any).
* Design the architecture of the system, including the database schema, user interface, and application logic.
* Define the interactions between different components of the system, such as the frontend, backend, and database
* **Database Connectivity**:-Implement database connectivity using JDBC (Java Database Connectivity) to establish connections to the database.Write code to perform CRUD (Create, Read, Update, Delete) operations on the database.
* **Database Design:**-Design the database schema to store student information, results, user accounts, etc.Define tables, relationships, and constraints using a relational database management system (RDBMS).

**4. Resources & Limitation:**

* **Resources:**
* **Java Programming Language**:-Utilize the features and libraries provided by Java for developing robust and scalable applications.
* **Web Servers**:-Deploy your Java-based web application on web servers like Apache Tomcat, Jetty, or WildFly to serve HTTP requests and host your application.
* **Limitation:**
* **Performance**:- Java applications may face performance limitations, especially if not optimized properly. Consider factors like efficient database queries, caching mechanisms, and application profiling to address performance issues.
* **Scalability:-** Ensuring scalability of the application can be challenging, particularly with increasing numbers of concurrent users or data volume. Employ techniques like load balancing, clustering, and horizontal scaling to handle scalability requirements..

1. **Software Requirements:**

* Programing Languages :- JAVA, HTML, CSS, ,BOOTSTRAP
* Backend database :- MYSQL
* Operating system :- Window 10
* Web server :- Apache Tomcat

**Hardware requirements:**

* Processor :- I 3
* RAM capacity :- 1 GB(min)
* Hard Disk :- 20GB
* Keyboard :- Standard keyboard
* Mouse :- Optical

**6.No.Of Members:**-2

**7.Team Members :**

1. KAPIL DUDHE
2. AJAY CHOUHAN

**8.Existing system:**

**Grade Calculation**:

* The system automatically calculates grades based on predefined grading criteria and the marks obtained by students.
* Teachers may have the option to adjust grading criteria or weights for different assessments.

**Data Management**:

* The system manages student data, including personal information, academic records, and historical results.
* Data is stored in a relational database, allowing for efficient retrieval and management.

**Student Management**:

* Students can view their personal details such as name, roll number, class, and contact information.
* They can also access their academic records, including marks obtained in different subjects and overall grades.

**9.Working of a project:**

* **Student Management**:Administrators and teachers can manage student information, including adding new students, updating details, or deactivating accounts.
* Student profiles typically include personal information, academic records, and any relevant notes or remarks.
* **Grade Calculation**:The system calculates grades based on predefined grading criteria and the marks obtained by students in each subject.
* Teachers may have the flexibility to adjust grading criteria or weights for different assessments based on specific requirements.

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**10.Future Enhancement:**

* Develop a mobile application version of the online result system to enable convenient access for users on smartphones and tablets.
* Ensure compatibility across different mobile platforms (iOS, Android) and optimize the user interface for smaller screens and touch-based interactions.

**11.Date of submission:**

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**12.Name of project Guide:**

Mr. Manish Raghuwanshi

**13.Name of form or company or organization for develop a project(if application)**

**DATE OF SUBMISSION : SINGNATURE:**

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