SOFTWARE ENGINEERING (CSE - 209)

Feasibility Study

Previous Year Question Paper Management System

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1. Technical Feasibility

The Previous Year Question Paper Management System (PYQPMS) is technically feasible as it can be developed using widely available web technologies such as HTML, CSS, JavaScript, and backend frameworks like PHP, Python, or Node.js with a relational database such as MySQL. The system follows a standard client–server architecture, which is well supported by modern web servers and cloud platforms. Required infrastructure such as hosting services, storage, and secure authentication mechanisms are readily available and affordable. The development tools and technologies are mature, stable, and well-documented. Therefore, no specialized or experimental technology is required, reducing technical risk.

2. Operational Feasibility

The system is operationally feasible because it aligns with the needs of students, faculty, and administrators who require easy access to previous year question papers. Users can conveniently access the system through a web browser without requiring special training. Administrators can manage uploads, verification, and updates through a simple interface. The organization responsible for maintaining the system can integrate it into existing academic workflows. Since the system simplifies manual record-keeping and physical storage, it improves efficiency and reduces administrative workload.

3. Economic Feasibility

The project is economically feasible as the development cost is relatively low compared to its long-term benefits. The system can be developed using open-source technologies, minimizing software licensing costs. Operational costs such as hosting, maintenance, and periodic updates are manageable for a university-level institution. By digitizing question papers, the system reduces printing, storage, and manual handling expenses. Additionally, the improved accessibility and efficiency provide significant value to students and staff, justifying the investment.

4. Legal Feasibility

The system is legally feasible provided that it complies with university policies and applicable data protection regulations. Proper authorization will be obtained before uploading and publishing question papers to avoid copyright violations. The system will ensure secure handling of user data and restrict administrative access through authentication mechanisms. Any integration with external services will adhere to

institutional and legal guidelines. With appropriate permissions and compliance measures, no major legal barriers are expected.

5. Schedule Feasibility

The development of PYQPMS is schedule feasible as it can be completed within a reasonable timeframe using standard development methodologies. A small development team can design, develop, test, and deploy the system within approximately 3 to 4 months. The project scope is clearly defined, reducing the risk of delays. Since the technologies involved are well-established, development and testing can proceed efficiently. Proper planning and milestone tracking will ensure timely completion of the project.