**SYNOPSIS**

**Report on**

**KITAAB**

**by**

HARSHIT SINGHAL(ROLL NUMBER: 2200290140067)

HARSH KUMAR SINGH(ROLL NUMBER:22002901400366)

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Under the supervision of

**DR. RABI PANDA**

**<<ADDITIONAL HOD>>**

### KIET Group of Institutions, Delhi-NCR, Ghaziabad



### Department Of Computer Applications

**KIET GROUP OF INSTITUTIONS, DELHI-NCR, GHAZIABAD-201206**

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**ABSTRACT**

The project titled "Development of eNotes Application Using Servlets, JSP, and MySQL" aims to create a robust and efficient web-based note-taking application designed to streamline the process of managing, organizing, and accessing notes in educational and professional settings. The project leverages the power of Servlets, JavaServer Pages (JSP), and MySQL database management system to achieve this goal.

By utilizing Servlets and JSP, the project achieves dynamic content generation and seamless interaction with the user, while MySQL serves as the robust back-end database system, guaranteeing data integrity and efficient data retrieval.

The eNotes application is expected to benefit students, professionals, and anyone in need of a digital note-taking solution. It streamlines the note-taking process, enhances collaboration, and offers a secure platform for storing and accessing valuable information. This project exemplifies the potential of Java web technologies and relational databases in developing practical and efficient web applications**.**

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**INTRODUCTION**

In the age of digitalization and information proliferation, the need for efficient tools to manage, organize, and access notes has become paramount in both educational and professional realms. Recognizing this demand, our project endeavors to craft a solution that not only simplifies note-taking but also fosters collaboration and ensures data security. This project, titled "Development of eNotes Application Using Servlets, JSP, and MySQL," embarks on a journey to create an advanced web-based note-taking application that leverages the power of Java Servlets, JavaServer Pages (JSP), and the reliability of the MySQL database management system.

The contemporary educational and professional landscape relies heavily on digital platforms for knowledge sharing and information management. Conventional note-taking methods have evolved into digital counterparts that offer greater flexibility, accessibility, and collaboration features. The eNotes application, born out of this evolution, aspires to be a pioneering solution catering to the needs of students, professionals, and anyone seeking a seamless digital note-taking experience.

This synopsis delves into the core objectives of our project, the methodology employed for its realization, the anticipated outcomes, the proposed time duration for execution, and a comprehensive list of references that have guided our journey. By the culmination of this endeavor, we aim to present an innovative web application that not only enhances the way individuals manage their notes but also serves as a testament to the potential of Servlets, JSP, and MySQL in the realm of web development.

**PROJECT OBJECTIVE**

The primary objective of this project is to develop a web-based note-taking application, named eNotes, using Servlets, JSP, and MySQL. The key goals of the project include:

1. Efficient Note Management: To create a platform that allows users to efficiently create, organize, and manage their notes.
2. Secure User Authentication: To implement a robust user authentication and authorization system to ensure data security and privacy.
3. Collaboration Features: To enable users to collaborate on notes and share them with others, fostering knowledge sharing and teamwork.
4. Reliable Data Storage: To use MySQL as the backend database system for reliable data storage, retrieval, and management.
5. User-Friendly Interface: To design an intuitive and user-friendly interface that accommodates various user needs and preferences.

**RESEARCH METHODOLOGY**

Methodology

The methodology of developing of project will be a step-by-step sequence to design,

develop and deliver the application. In software engineering this methodology called ‘waterfall

model’ which one portion of work follows after another in a linear sequence. Following steps will

be followed in this methodology:

- Initiation (Requirement Specification);

- Planning and design;

- Execution (construction and coding);

- Validation (Testing);

- Closure (Installation and Maintenance).

Figure 1: SDLC Diagram of Project

Project Requirements Specification

By project requirements specifications we can analyze the tasks which going to be done

by the system. The function and performance of allocated to software as part of system

engineering are refined by establishing a complete information description. A detailed functional

and behavioural description of the project and concentrating on requirements and constraints of

that will provide and good product. The proposed system should follow these requirements:

1. JSP
2. SERVELET
3. MYSQL

**PROJECT OUTCOMES**

### THE OUTCOMES OF KITAAB IS TO:

1. **A Functional eNotes Application:** The successful development of a fully functional web-based note-taking application.
2. **Improved Note Management:** Enhanced capabilities for users to create, edit, organize, and search notes efficiently.
3. **Secure User Access:** A secure authentication and authorization system to protect user data.
4. **Collaboration Features:** Features that enable users to collaborate on notes and share them with others.
5. **Scalability:** A scalable application that can accommodate a growing user base and an increasing volume of notes.
6. **Positive User Experience:** A user-friendly interface that ensures a positive user experience.

**PROPOSED TIME DURATION**: 1-1.5 MONTH

**REFERENCES**

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2. [introduction to java servelets](https://www.geeksforgeeks.org/introduction-java-servlets/)

1. [introduction to MySql](https://www.w3schools.com/MySQL/default.asp)