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**Documentation**

**Project Overview**

The Chat-Whisperer is a social media inspired for school purposes, that can communicate with both the teachers and students. This system has tight security parameter integrating message encryption.

**Objectives**

* To develop a user-friendly quiz application with responsive design.
* To implement chat system.
* To store data in database.
* To provide encryption.

**Frontend Design**

* View3, Veutify JavaScript were used to create an interactive and visually appealing UI.
* User-friendly Navigation for smooth scrolling and structured UI elements for better accessibility.

**Backend Design**

* Django
* Axios integration

**Chat-whisperer Implementation**

* **CRUD (Django Rest framework)**
* **Middleware**

**4. Implementation Process**

**Step 1: JavaScript Functionality**

* Integrated **event listeners** for interactive elements (buttons, navigation links, etc.).

**Step 2: Testing and Debugging**

* Functionality, including message encryption.
* Debugged UI responsiveness on different screen sizes.

**5. Challenges Encountered**

* **Database Persistence**: Managing data updates and avoiding duplication required careful handling.

**6. Lessons Learned**

* **Importance of Structured Code**: Using modular functions improved consistency and debugging.
* **Effective Use of Database**: Understanding how to store, retrieve, and manipulate data dynamically.
* **User Experience Considerations**: Creating a smooth user experience required intuitive design choices and interactive mechanisms.

**7. Conclusion**

The Chat-Whisperer successfully provides an interactive and messaging platform for users. The implementation of the and encryption enhances data security.