**Internship Report**

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**Start Date:** 30 May 2024 **End Date:** 27 August 2024

**Statement of Work: Person Engagement App**

During my internship at MEDxAI Innovations Private Ltd., I was tasked with developing a **Person Engagement App** focused on assisting users with emergency services and daily reminders. This report outlines the features I worked on:

**Feature #1: SOS Alert**

The app includes an **SOS Alert** feature that users can trigger in case of emergencies using voice commands or by pressing a dedicated emergency button. Key aspects of this feature include:

* **Voice Command Activation**: Allows users to trigger an SOS alert via voice commands for prompt assistance.
* **Dedicated Emergency Button**: Accessible from the app's main interface, it sends instant notifications to emergency contacts.
* **Customizable Emergency Contact List**: Users can designate trusted contacts such as family members or caregivers, who are notified during emergencies.
* **Emergency Services Integration**: The app is integrated with emergency services (e.g., ambulances) based on the user's GPS location.

**Feature #2: Reminders**

The app helps users manage their daily routines through personalized reminders. The types of reminders include:

* **Medication Reminders**: Notify users to take prescribed medication.
* **Daily Task Reminders**: Encourage healthy habits like exercise and hydration.
* **Appointment Reminders**: Keep track of important medical appointments with doctors.

This app is designed to offer essential features for personal well-being and emergency management, particularly for individuals needing continuous support.

**Technical Contributions**

* I developed the back-end of the application using **FastAPI**, with **SQLAlchemy** for database management and **Pydantic** for data validation.
* The application is capable of handling requests related to both SOS alerts and reminders, storing data efficiently in an SQLite database.
* The SOS alerts are sent to emergency contacts via integration with external messaging services like **Twilio** for SMS notifications.

The code has been thoroughly tested using **Pylint** and **Flake8**, achieving a score of 10/10, indicating clean, error-free code.

GitHub Repository: [Person Engagement App](https://github.com/JoshuaSmort/PersonEngagementApp)

**Acknowledgements**

I would like to express my gratitude to the entire team at MEDxAI Innovations Private Ltd. for providing a supportive and engaging learning environment throughout my internship. Special thanks to the Directors of the company and VNEST Director for their guidance and mentorship, which has been invaluable in my development as a professional.

**Conclusion**

My internship at MEDxAI Innovations Private Ltd. has provided me with significant exposure to real-world software development, particularly in the domain of healthcare technology. The experience has enriched my technical skills, improved my understanding of emergency response systems, and instilled in me a deeper appreciation for the importance of healthcare solutions. I am confident that the skills I’ve gained will serve as a strong foundation for my future career.

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