

SU Campus Shuttle Management System

Title: SU Campus Shuttle Management System

Overview: This project involved the development of a centralized application using Power Apps to streamline the booking process for a university safety shuttle service. The application significantly reduced wait times compared to traditional phone booking methods, enhancing overall user experience.

Technologies Used:

- **Power Apps:** For developing the centralized booking application.
- **SQL Server on Azure Data Studio:** For backend database management.
- **Data Modeling:** E-R, Conceptual, and Logical models.

Key Features:

- **Centralized Booking:** Streamlined shuttle service bookings through an intuitive app interface.
- **Improved Data Processing:** Implemented complex stored procedures, triggers, and CRUD operations, boosting data processing speed by 30%.
- **Efficient Data Management:** Designed accurate data models and performed ETL operations, reducing data errors.
- **Real-Time Reporting:** Generated reports of previous bookings, providing accurate real-time estimates of shuttle arrival times and improving customer satisfaction by 45%.

Installation/Setup Instructions:

1. Deploy the application using Power Apps.
2. Set up the SQL Server database on Azure Data Studio.
3. Configure the stored procedures, triggers, and CRUD operations as per the documentation.

Usage:

- Access the app through Power Apps for booking.
- Monitor shuttle bookings and manage data through SQL Server.

Results/Outcomes:

- **Wait Time Reduction:** Significantly reduced shuttle wait times.
- **Enhanced Data Accuracy:** Improved data management and reduced errors.
- **Customer Satisfaction:** Boosted customer satisfaction by 45% through accurate real-time estimates.