

# **Airport Announcement Software**

<b>Subjects</b>	Projects
<b>■</b> Date	@September 15, 2021
Al summary	The Airport Announcement Software automates flight detail announcements at airports, improving efficiency and reducing errors associated with the manual system. It is a Python-based project that utilizes a database for flight information and generates audio announcements in English and Hindi using the Google Text-to-Speech library. Key features include user registration, login, and audio announcement generation, making it a reliable solution for airport staff.

#### Introduction:

- The Airport Announcement Software is a project designed to automate the manual system of announcing flight details at airports.
- The software aims to provide a user-friendly interface for airport staff to generate audio announcements for flights, reducing the workload and increasing efficiency.

#### **Problem Statement:**

- The current manual system of announcing flight details is time-consuming and prone to errors.
- The airport staff have to manually check the flight schedules and make announcements, which can lead to delays and miscommunication.

## **Proposed Solution:**

- The Airport Announcement Software is a Python-based project that uses a database to store flight information.
- The software generates audio announcements for flights using the Google Text-to-Speech (gTTS) library.
- The announcements are generated in both English and Hindi.

## **Tools and Technologies Used:**

· Programming Language: Python

- Python Libraries:
  - Tkinter (for GUI)
  - OpenPyXL (for Excel file handling)
  - gTTS (for text-to-speech conversion)
  - PyDub (for audio processing)
  - Pandas (for data manipulation)
  - MySQL Connector (for database connectivity)

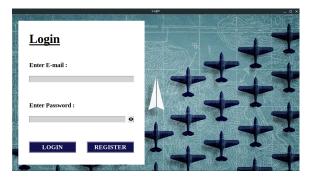
· Database: MySQL

• Web Server: XAMPP

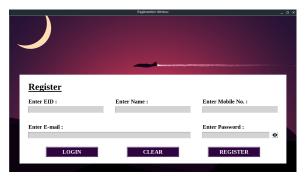
## **Functional Requirements:**

- User Registration: Airport staff can register themselves with a unique ID and password.
- Login: Registered users can log in to the system using their ID and password.
- Flight Information: The system stores flight information, including flight number, destination, gate number, and delay time.
- Audio Announcement: The system generates audio announcements for flights in both English and Hindi.
- Logout: Users can log out of the system.

#### **Screenshots:**







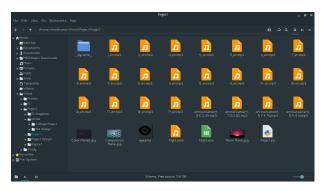
Register Page





Home Page

Folder Before Audio Generation



Folder After Audio Generation

## **Conclusion:**

The Airport Announcement Software is a user-friendly and efficient system that automates the manual process of announcing flight details at airports. The system meets the requirements and provides a reliable solution for airport staff.