**Orange Air Airport Management System**

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1. **Business Problem:**

Given the day-to-day travel plans of people across the globe, the data generated each day is unique and maintaining organized records becomes a hassle. If the airport management staff have a proper system to view, update information of passengers, flights, employees at such airports, tickets, etc. it would make their life easier. Hence, to facilitate smooth working of airports and easier management, we built an application for admins working at Orange Air airports.

1. **Conceptual Data Model:**

**Graphical user interface, application

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In the conceptual model, we have shown the relationship between different tables and how each attribute in the table is defined.

1. **Logical Data Model:**

**Graphical user interface, application

Description automatically generated**

In logical model, we have defined which entity is connected to which other entity and defined all the constraints of each entity.

1. **Identification of Data Logic:**

We have implemented data logic on the following as:

* Passenger: To find passenger flight and ticket information and also update flight related information.
* Employee: To lookup employees job details and also update them who areworking at Orange Air
* Ticket: Letting an admin view the cancelled and confirmed tickets.
* Flight: To lookup flight details like status, departure, layover time, etc.

1. **Layout of Application Screens:**

**Intro Page :** To navigate across different screens from the home page.

**Graphical user interface

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**Employee:** An admin can view employee name, job type, work location etc. from the below screens

**Table

Description automatically generated Graphical user interface, application

Description automatically generated**

**Passengers:** An admin can view passenger’s personal and flight details from the below screens.

Table

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**Tickets:** Ticket’s intro page navigates to confirmed and cancelled tickets which further navigate to details of the respective ticket selected from the below screens.

**Graphical user interface, application

Description automatically generated with medium confidence**

**Table

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**Table

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**Flight:** An admin can view flight details like source, destination, status, etc. from the below screens.

**Table

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1. **SQL UP/DOWN Scripts:**

**DOWN**

**A picture containing text

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**UP Metadata**

**Graphical user interface, text, application

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**Text

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**Graphical user interface, text, application

Description automatically generated**

**A picture containing table

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**UP Data**

**Table

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**A picture containing background pattern

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**A picture containing application

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**VERIFICATION**

**Table

Description automatically generated**

1. **Links for working application:**

[**Video demo**](https://video.syr.edu/media/t/1_s582bpbp)

[**PowerApps Link**](https://apps.powerapps.com/play/23de987b-c002-4e09-9ab4-c84c8a4803d9?tenantId=4278a402-1a9e-4eb9-8414-ffb55a5fcf1e)

1. **Team Log:**

* Conceptual Diagram: Kirat
* Logical: Vinit
* Creating and Updating Tables: Vinit, Kirat, Pranav
* UP/DOWN Scripts: Vinit, Kirat
* Inserting Data: Vinit
* PowerApps: Pranav
* Stored Procedure and Views: Pranav
* PowerPoint Presentation: Pranav
* Report: Kirat, Pranav, Vinit

1. **Acknowledgements:**

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1. **References:**

* Textbook and lecture slides by Professor Michael Fudge
* Geeksforgeeks.com
* Stackoverflow.com