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# Virgin Airlines Lab

**Estimated Time: 2 days**

**Prerequisites:**

- Ruby
- Rails
- HTML
- CSS
- git
- pivotal tracker
- Multiple Models
- TDD

## Summary: An Airlines Reservation System

Original Source: Virgin Atlantic

### How to run this lab

Pair into teams of 4–5 students since this is a big lab that will require a lot of planning. Have students first create a wireframe based on the project specs. Have students demo their models. Have students demo their privotal tracker user stories.

# Requirements

An admin can create planes on the `/airplanes` page.

A plan has a name, rows, and columns.

When a new plane is saved the page should show a seating diagram.

An admin can create flights on the `/flights` page.

A flight has a flight number, origin, destination, date, and plane.

When a new flight is saved, the page should show a list with the newest date at the top of the list and the number of available seats on the plane.

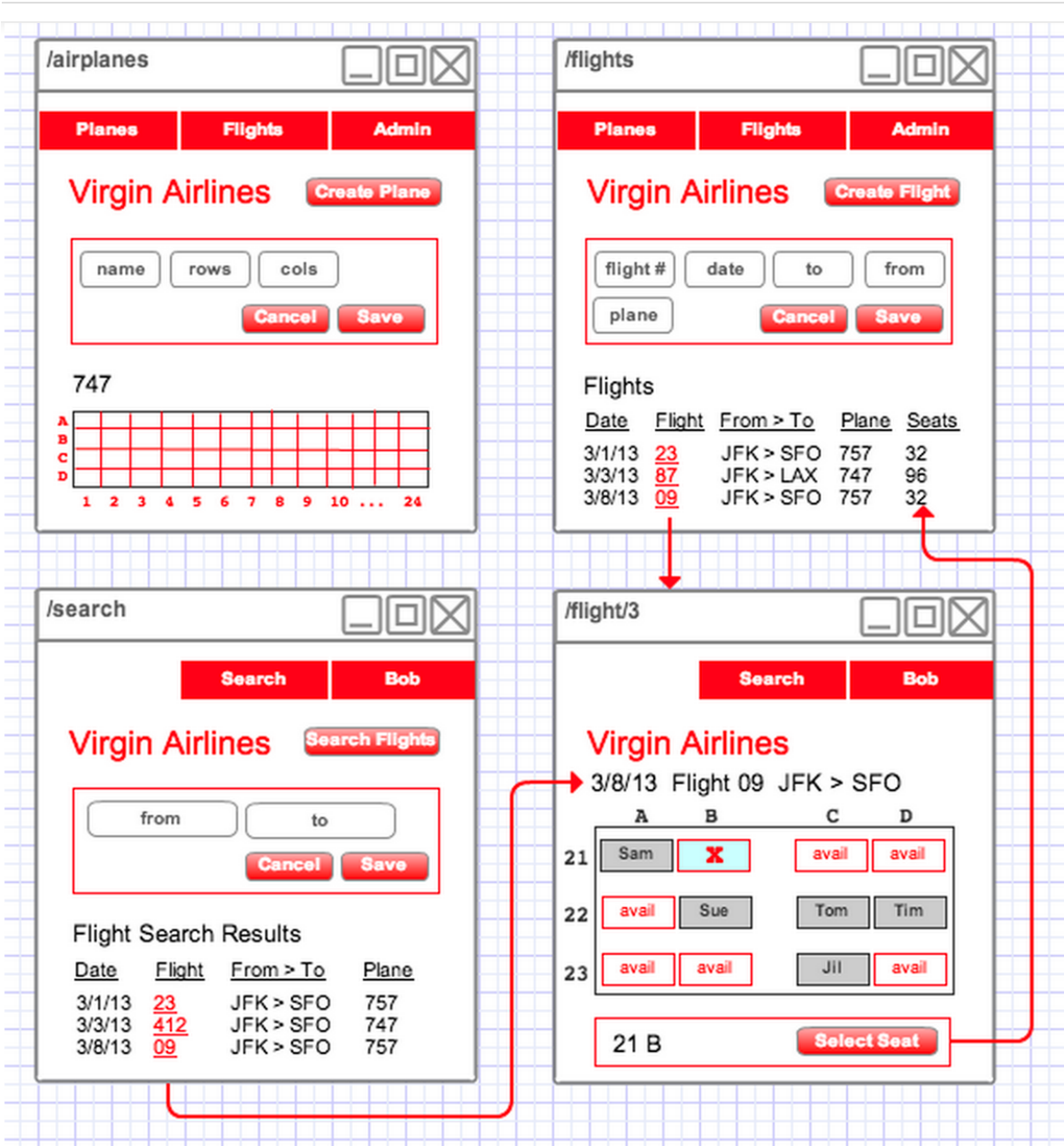A user can search for flights on the `/search` page. The search page should have an input form for the origin and destination. When a user creates a search, the page should show a list of flights with the newest date at the top, and include the number of available seats on the flight.

When the user selects a flight, we should go to the show page ie, `/flights/3` . The plane show page should show a seating diagram with available seats and seats that have been selected, with their names.

A user can select a seat.

When a seat is saved, the available seats on the `/flights` page should update.

# Wireframe



# Models

There are models for Airplane, Flight, User, and Reservation.

An Airplane has many Flights and a Flight belongs to an Airplane.

A User has many Reservations and a Reservation belongs to a User.

A Flight has many Reservations and a Reservation belongs to a Flight.

The Reservation table is a join table between Users and Flights, which have a many-to-many relationship through Reservations.

The Airplane model has rows and columns to determine the configuration of the plane; the Airplane model has a row and a column for a particular seat.

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