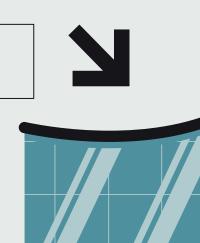


Passenger Re-accommodation for a planned Schedule Change



Agenda

- Goals
- Our Approach
- Learnings

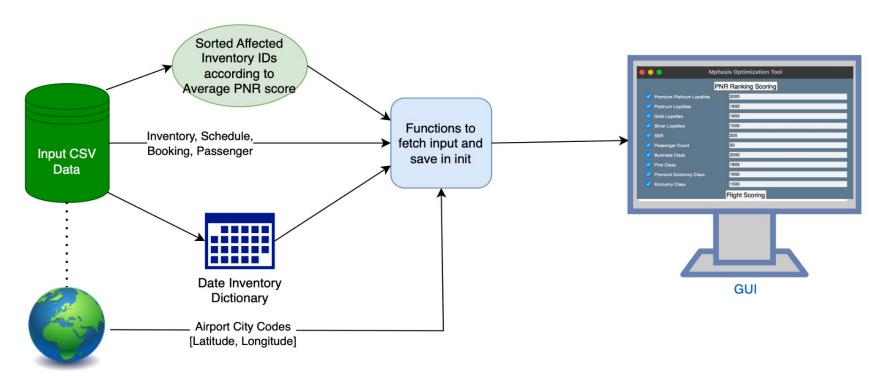
Goals

- Optimize alternate flights for impacted passengers
- Prioritizing based on
 - Special service requests
 - Loyalty levels
 - Class of cabin
 - # of passengers
- Rank solutions based on
 - Source and destination airport real time distances
 - Arrival and departure time delays

Our Approach

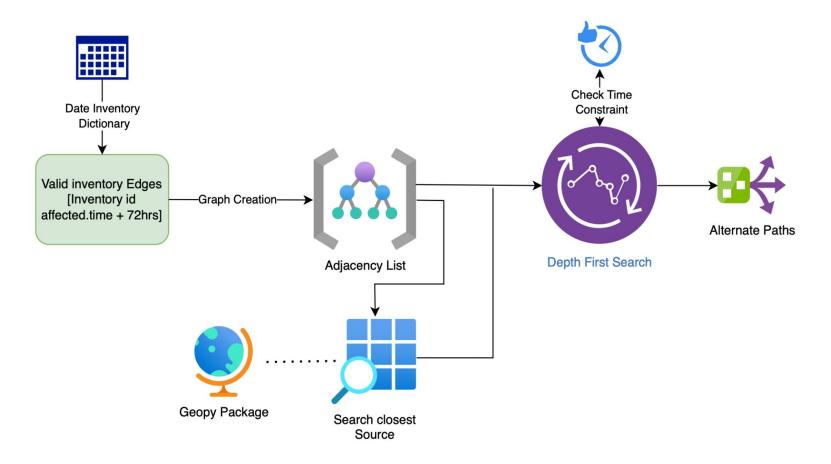
- Pre-processing
- Find Alternate Paths
- Flight Scoring
- Passenger Scoring
- Accommodation
- Output + Bulk Mailing

Pre-processing

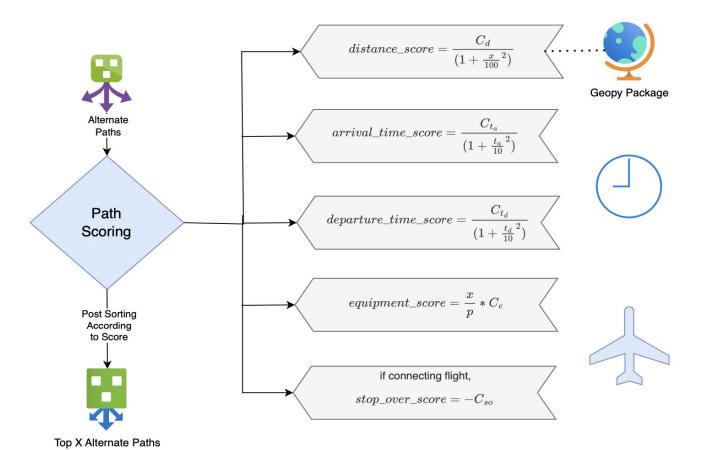


Geographical Co-ordinates

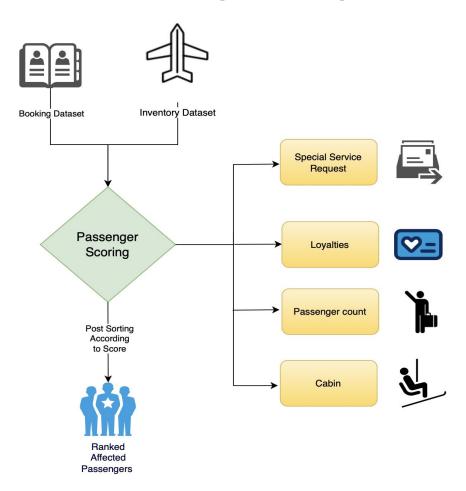
Find Alternate Paths



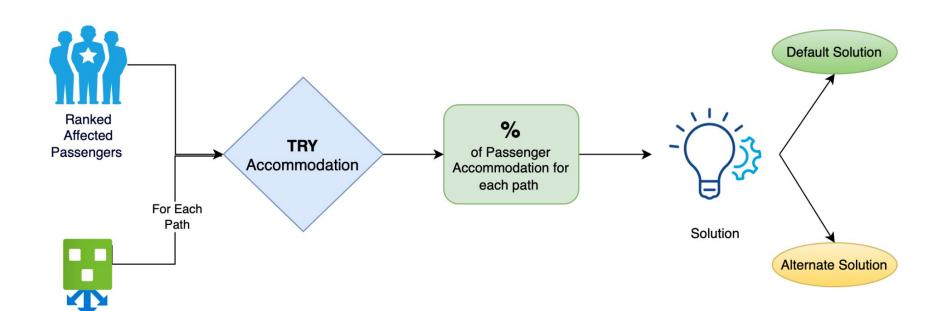
Flight scoring



Passenger Scoring

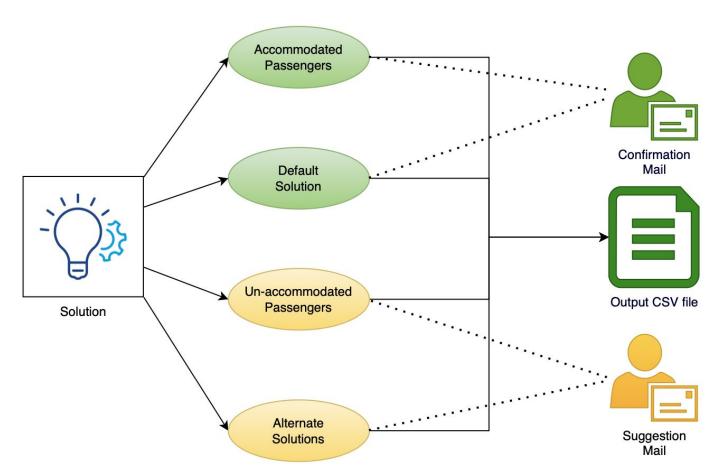


Passengers Accommodation



Top X Alternate Paths

Solution Output and Bulk Mailing



Remarks

- ~ 30 Affected flight solutions found / second (4 core CPU)
- One time pre-processing, Faster searching
- Assumption # of connecting flights have a low maximum limit: Constant order depth first search
- Flexibility in PNR & Flight scoring
- Continuous scoring functions Accurate score for filtering the top paths

DEMO







Open for questions,