**Project Title:** Developing a Flight Delay Prediction **Project Design Phase-I** - **Solution Fit Template Team ID:** PNT2022TMID36161

Model using Machine Learning

**1**

**. CUSTOMER SEGMENT(S**

**)**

**CS**

All the passengers who are

taking

**6.**

**CUSTOMER**

**CONSTRAINTS**

-

No refunds

will be given to the

passengers

**5**

**. AVAILABLE SOLUTIONS**

**CC**

-

The delay of flights

are

informed

**AS**

earlier

the flight and the flight are

delayed

due to some reasons

-

Cannot pay or book an alternative

flight

-

Not satisfied with the benefits

-

Airline benefits are

given

-

Book for an alternate

flight

-

Enjoys the benefits from the

airline

-

Go to different places they are

at

**Focus on J&P, tap into BE, understand RC**

**2**

**. JOBS**

**-**

**TO**

**-**

**BE**

**-**

**DONE /**

**PROBLEMS**

The problem that is addressed to the

customer is the delay of flights

**J&P**

**9**

**. PROBLEM ROOT CAUSE**

-

Mechanical

issue

-

Unpredictable

weather

condition

-

Consecutive delay

of

previous flights.

**RC**

**7.**

**BEHAVIOUR**

-

Get information from the

airlines in

prior

-

Try to book another

flight

if

emergency

-

Reach the airport

early

-

Book a nearby hotel if the

delay of

flight is

prolonged

**BE**

**Focus on J&P, tap**

**into BE, understand RC**

-

Air traffic

due to weather

**Explore AS, differentiate**

**Define CS, fit into CC**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Identify strong TR & EM** | **3. TRIGGERS TR**  Many may respond to the problem differently but the common response will be tension, anger or maybe even relaxed. | **10. YOUR SOLUTION**  The solution to the delay of flight is by developing a flight delay prediction model by using machine learning to predict and declare the delay of flights. | **SL** | 1. **CHANNELS of BEHAVIOUR CH**     1. **ONLINE**        * Checks the airline application to know about the delay       * Checks the nearby hotel with accommodations      * 1. **OFFLINE**       + Checks with the attendees about alternative flight and about how long the delay of the flight   will be for. –  Reaches the airport soon | **Identify strong TR & EM** |
| **4. EMOTIONS: BEFORE / AFTER EM**    **BEFORE:**  Perturbed, discouraged, bored not knowing what to do, stressed out and full of rage  **AFTER:**  Relaxed, and content  Gets benefit from the airlines |