PROJECT NAME:TO DEVELOP A FLIGHT DELAY PREDICTION MODEL USING MACHINE LEARNING

PROJECT DESIGN PHASE 1-SOLUTION FIT

TEAM ID:

Define CS, fit into CC

1. CUSTOMER SEGMENT(S) — CS

Who is your customer?
i.e. working parents of 0-5 y.o. kids

The customer use our solution are airline companies and people use airline transports.

6. CUSTOMER CONSTRAINTS — CC

What constraints prevent your customers from taking action or limit their choices of solutions? i.e. spending power, budget, no cash, network connection, available devices.

The customer physically can't do anything about the delay caused by the flight.

5. AVAILABLE SOLUTIONS — AS

Which solutions are available to the customers when they face the problem or need to get the job done? What have they tried in the past? What pros & cons dothese solutions have? i.e. pen and paper is an alternative to digital notetaking

Information about the flight given by the ATC(Air Traffic Control)either in official online websites or FIDS(Flight Information Display System).

Explore AS, differentiate

Focus on J&P, tap into BE, understand

2. JOBS-TO-BE-DONE / PROBLEMS — J&P

Which jobs-to-be-done (or problems) do you address for your customers?There could be more than one; explore different sides.

To predict the delay of the flight early and notify them.

9. PROBLEM ROOT CAUSE — RC

What is the real reason that this problem exists? What is the back story behind the need to do this job?
i.e. customers have to do it because of the change in regulations.

Weather condition, Poor air traffic maintenance, Mechanical issues.

7. BEHAVIOUR — BE

What does your customer do to address the problem and get the job done?
i.e. directly related: find the right solar panel installer, calculate usage and benefits; indirectly associated: customers spend free time on volunteering work (i.e. Greenpeace)

Customer can avoid it by researching about the airline history, Reaching the airport early.

Focus on J&P, tap into BE, understand

Identify

3. TRIGGERS — TR

What triggers customers to act? i.e. seeing their neighbour installingsolar panels, reading about a more efficient solution in the news.

Customer may get triggered because of the delay caused by the aircraft and economic loss caused by it.

10. YOUR SOLUTION — SL

If you are working on an existing business, write down your current solution first,fill in the canvas, and check how much it fits reality.
If you are working on a new business proposition, then keep it blank until you fill inthe canvas and come up with a solution that fits within customer limitations, solves a problem and matches customer behaviour.

By developing a flight delay prediction

8. CHANNELS of BEHAVIOUR — CH

8.1 ONLINE
What kind of actions do customers take online? Extract online channels from #7

Track the flight information, check for alternate flights.

Extract online &

4. EMOTIONS: BEFORE / AFTER EM

How do customers feel when they face a problem or a job and afterwards?
i.e. lost, insecure > confident, in control - use it in your communication strategy & design.

Anger, Disappointment-> Satisfied, Calm customers might feel frustrated if the flight gets delayed and feel relieved if they know about the delay early.

model using supervised machine learning technique to predict the flight delay with utmost accuracy and if delay occurs, notify the customers through a web application.

8.2 OFFLINE

What kind of actions do customers take offline? Extract offline channels from #7and use them for customer development.

Contact airport authorities, Wait patiently.