

Team Members and Roles

Zehra Ahmed

Farah Inayat

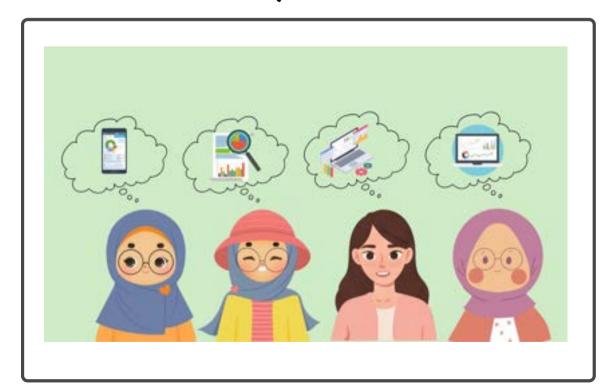
Kisa Fatima

Zuha Aqib

YOUR BI TEAM

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Create a doodle of your team - be creative!



What's your dataset?

The dataset is about U.S. airline flights, including their delays, cancellations, and other flight details during the pandemic. It helps us understand flight performance and travel patterns.

Potential Facts

ARR_DELAY - Arrival delay in minutes

DEP_DELAY - Departure delay in minutes

CANCELLED - 1 if flight was cancelled, 0 if not

DIVERTED - 1 if flight was diverted, 0 if not

DISTANCE - Distance of the flight

AIR TIME - Time spent flying

TAXI_IN, TAXI_OUT - Time on the ground after/before flying

CRS_DEP_TIME, CRS_ARR_TIME - Scheduled departure and arrival time

Potential Dimensions

OP_UNIQUE_CARRIER - Airline name

ORIGIN, DEST - Airport codes for departure and arrival

FL_DATE - Flight date

DAY_OF_WEEK – Day of the week (1=Monday, 7=Sunday)

FL_NUM - Flight number

TAIL NUM - Plane number

CANCELLATION_CODE – Reason if the flight was cancelled

BI DESIGN SPRINT - EMPATHIZE



For this design sprint, AI will act as your domain expert.

Al Prompt example:

Act as a [job role] working in [industry or domain]. I'm a student working on a Business Intelligence project, and I want to understand your needs. Can I ask you a few questions?

Interview questions examples:

- What does your everyday looks like?
- What decisions do you make regularly in your role?
- What information or data do you usually rely on?
- What challenges do you face when trying to make data-driven decisions?
- What kind of reports or dashboards are most helpful to you?
- What would make your job easier from a BI or analytics perspective?

Come up with more questions and jot them down. Make sure to keep the chat safe as you will be submitting it.

Act as a civil aviation manager at an international airport, managing flight delays & cancellations. Some more Questions:

How do you monitor and manage flight delays and cancellations?

Do you use historical data to predict future trends in air traffic or delays?

How important is real-time data for your daily operations?

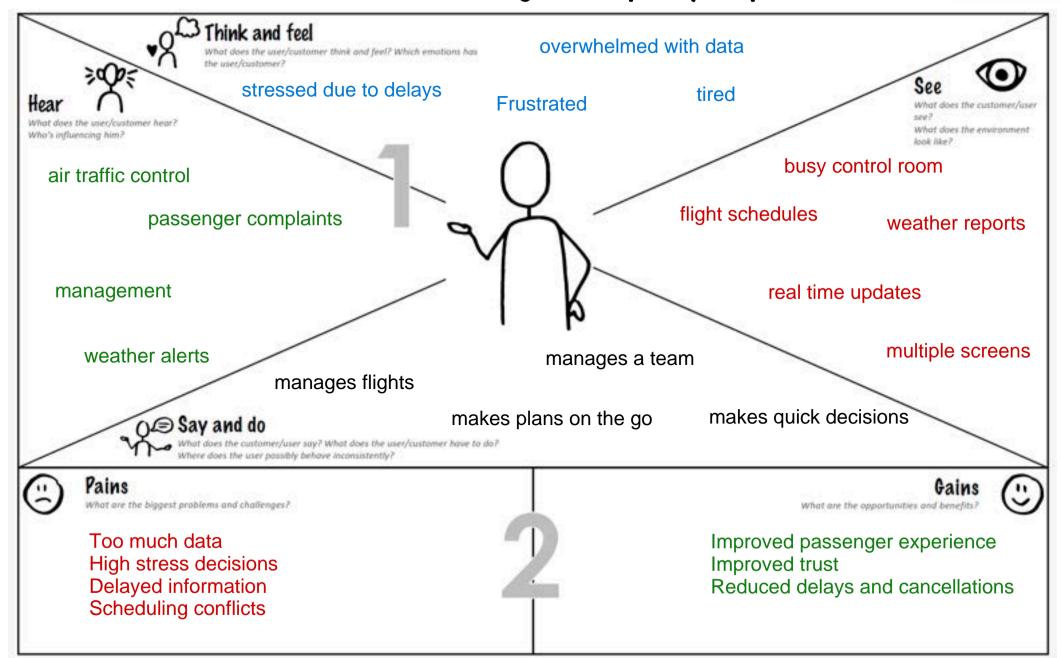
Are there any decisions you wish could be automated with the help of BI tools?

https://chatgpt.com/share/683496cd-1b44-8002-9494-edf71a5cad25

BI DESIGN SPRINT - EMPATHIZE



Know Your Manager - Empathy Map



BI DESIGN SPRINT - DEFINE



So what's the business problem?

"[Stakeholder], a [role] from [company], needs a way to [need] because [insight]. Fulfilling this need will help the organization [business impact]."

Fatima, a civil aviation officer from Jinnah International Airport, needs a way to manage excessive flight delays and cancellations due to recent political turmoil. Fulfilling this need will help the organization improve customer satisfaction and ensure smoother flight schedules.

How might we... (1 or 2 statements - Focus on a clear BI problem)

How might we provide Fatima with a real-time BI dashboard that integrates flight status, weather, and political event alerts to proactively manage delays and cancellations and use historical and live data to predict high-risk flights and automate decision-making for gate assignments and passenger communication, ensuring smoother operations.

TEAM MEMBER 1 NAME KSA FATIMA

Come up with as many ideas. One idea per sticky note.



No judgement - Go for volume - Be creative

(BOD BI

TEAM MEMBER 2 NAME Farak Irayat

Come up with as many ideas. One idea per sticky note.

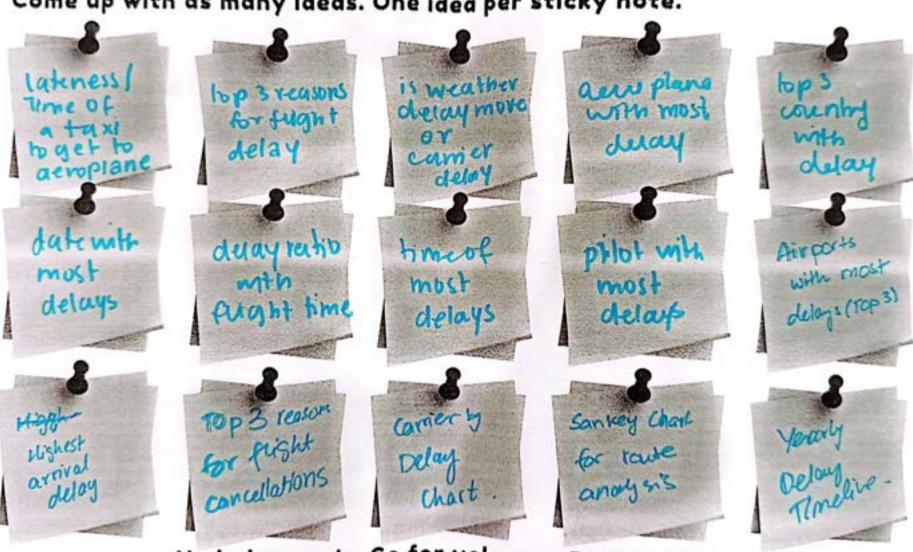


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TEAM MEMBER 3 NAME Zuha Agib

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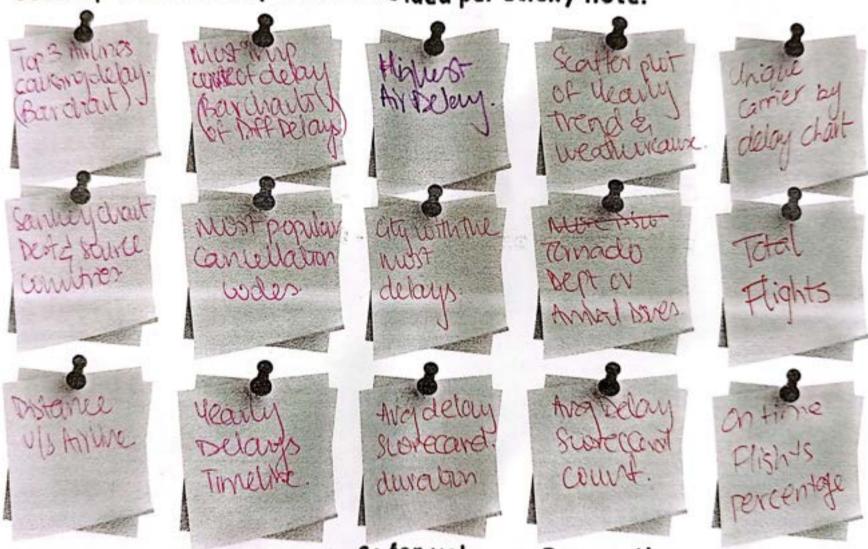


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TEAM MEMBER 4 NAME Zehra Ahmed.

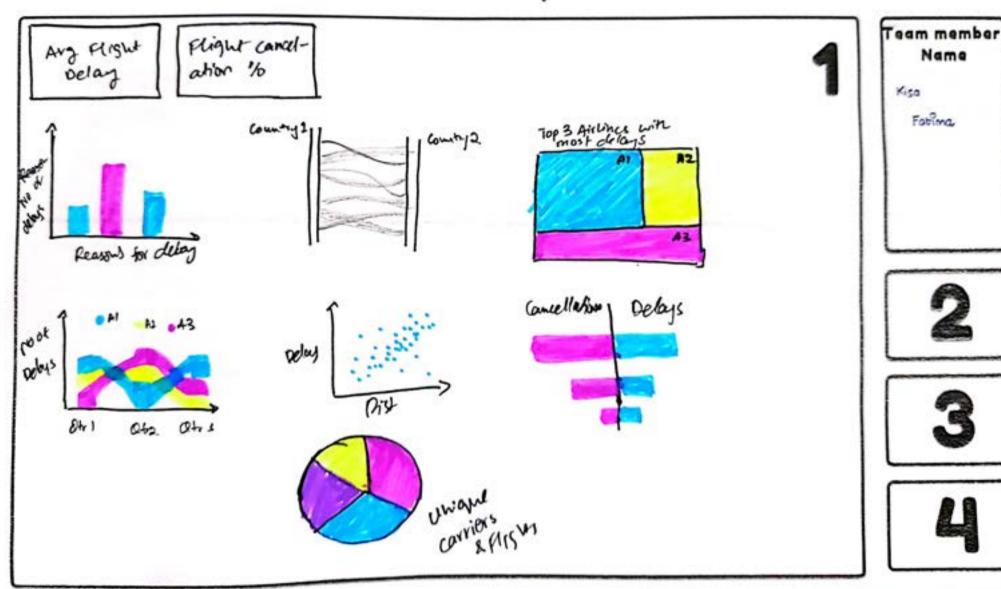
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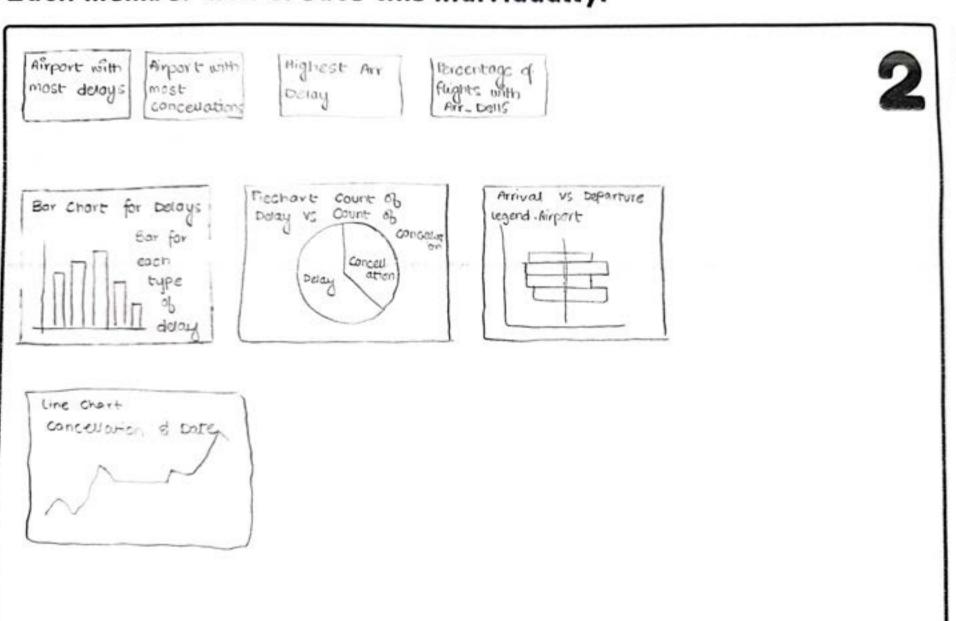
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Design Thinking Lev BI

Crazy 4s - Sketch ideas that might be a BI solution Each member will create this individually.



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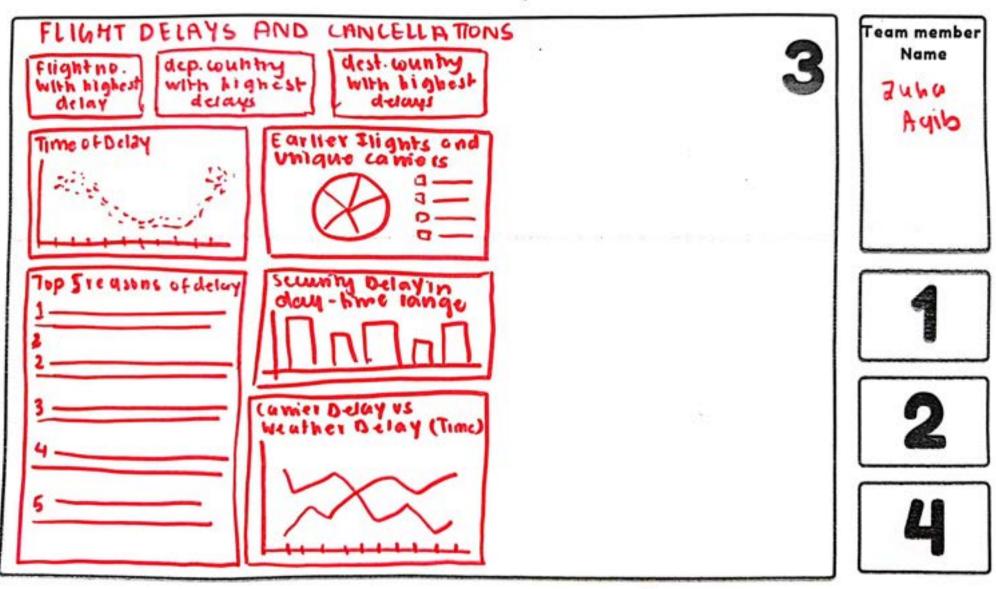
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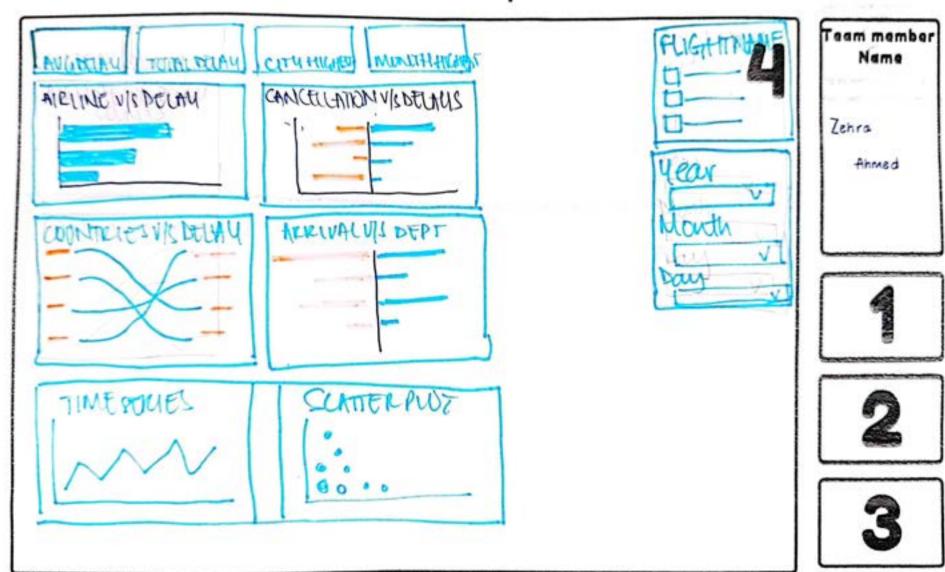
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Design Timking For BI

Crazy 4s - Sketch ideas that might be a BI solution Each member will create this individually.



BI DESIGN SPRINT - PROTOTYPE



Choose your favourite idea from the Crazy 4s. Make it as a group!



BI DESIGN SPRINT - TEST



Upload the prototype picture & ask your AI expert for feedback!

Label axes and charts more clearly (e.g., Y-axis for bar/line graphs). Replace "Qtr 1, Qtr 2..." with actual months or dates for clarity. Add titles/captions to each graph for quick interpretation. Consider tooltips or hover info in the final version for extra data detail. Group related metrics together visually (e.g., all delay-related charts in one area).

What can you improve? Reflect as a team!

Use the good practices we learned in class.

Make a readable and clean dashboard

There is a repetition between filters and charts that would act as a filter.

Positioning of the charts.

Add more charts.