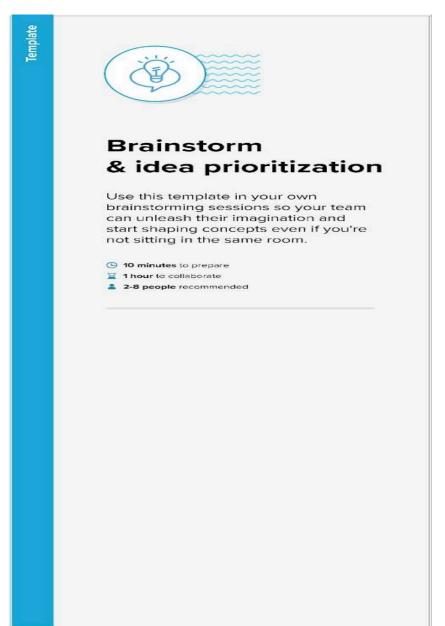
Ideation Phase Brainstorming & Idea Prioritization Template

Date	31 January 2025
Team ID	PNT2025TMID01163
Project Name	Predicting plant growth stages with environmental and management data using Power BI
Maximum Marks	4 Marks

Brainstorming & Idea Prioritization





Before you collaborate

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.



Team gathering

Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.

Set the goal

Think about the problem you'll be focusing on solving in the brainstorming session.

Learn how to use the facilitation tools
Use the Facilitation Superpowers to run a happy and productive session.

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Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

① 5 minutes

PROBLEM

Predict plant growth stages using environmental and management data in Power BI.





Brainstorm

Write down any ideas that come to mind that address your problem statement.

10 minutes

You can select a sticky note and hit the pencil [switch to sketch] icon to start drawing!

Anmol Agarwal

Integrate Environmental Data: Import temperature, humidity, soil moisture, and light data for analysis;

Ansh Mittal

Predict Growth Stages: Use DAX formulas or machine learning modes to predict plant growth stages (e.g., germination, vegetative, flowering).

Ashish Kr. Raghav

Visualize Data Trends: Use line graphs and scatter plots to visualize growth trends over time.

Ajeet Sharma

Optimize
Ferblization: Predict
the best ferblization
schedules based on
environmental
conditions and plant
growth stages.

Track Management Data: Incorporate imgation, fertilization, planting dates, and pest control schedules.

Time Series Forecasting: Apply Power BI's built-in forecasting features to predict future growth trends. Interactive
Dashboards: Build
interactive
dashboards with
slicers for filtering by
date, growth stage,
or crop type.

Alert System: Set up data alerts for critical emironmental thresholds, like extreme temperatures or moisture levels.

Create Growth Index: Develop a composite index combining environmental and management factors to estimate growth stage. Regression Models.
Utilize regression
analysis (via DAX,
Pythen, or R) to model
relationships between
environmental factors
and growth stages.

Monitor Soil
Moisture: Track soil
moisture levels to
trigger irrigation
decisions and adjust
growth stage
predictions.

Croate Growth Index Develop a composite index combining environmental and management factors to estimate growth stage, d



Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

20 minutes

Add customizable tags to sticky notes to make it seems to find, browne, organize, and categorize important ideas as themes within your mural.

Data Integration and Management

Integrate Environmental Data: Import temperature, humolity, soli nesture, and light

Track Management Data Incorporate Higation, furtilization, planting dates, and past control schedules Monitor Soil Mosture: Track soil mosture levels to trigger impation decisions and adjust growth stage predictions.

Prediction and Forecasting

Profet Growth Bages Use CAX formulas or machine learning readers to prefet pased growth steepes or a generation.

Time Series
Forecasting: Apply
Power Bi's built in
Sorecasting
features to predict
future growth
bends.

Progression Mode Utilize regression analysis tris DAD Pythos, or REIS morelationerings factor environmental fact and growth steps

Data Visualization

Visualize Data Trends: Use line graphs and scatter plots to visualize growth trends over time.

Personne Built Plantourn Built Plantow deribourts with lows for tillering by link, growth stage, or crop box. Congues Multiple Crops the organistic charts to analyze and pradict growth stages for affected crops under

Optimization and Alerts

Optional Fertilipsion Predict the best fertilipation scheduled based or environmental conditions and plant growth stages. Anni System. Set a lists alons for critica environmental strecholds. Ne extreme temperatures or closture levels. Create Drown tool Develop a composiindex continuing environmental on management facts to estimate grown stage.



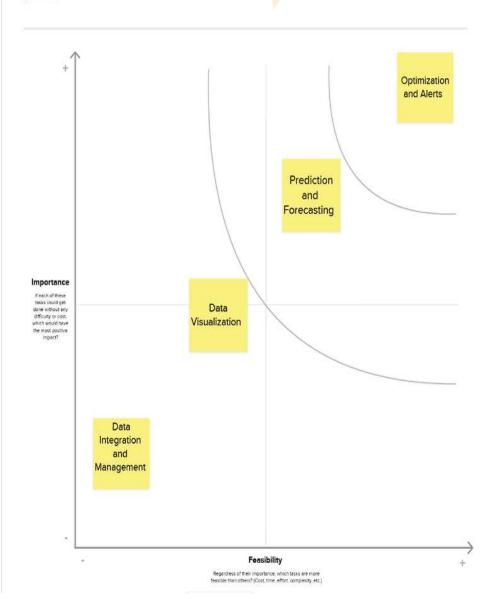
Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.



TIP

Participants can use their cursors to point at where sticky notes should go on the grid. The facilitator can confirm the spot by using the leser pointer holding the H key on the keyboard.





After you collaborate

You can export the mural as an image or pdf to share with members of your company who might find it helpful.

Quick add-ons

- Share the mural
 - **Share a view link** to the mural with stakeholders to keep them in the loop about the outcomes of the session.
- Export the mural

 Export a copy of the mural as a PNG or PDF to attach to emails, include in slides, or save in your drive.

Keep moving forward



Strategy blueprint

Define the components of a new idea or strategy.

Open the template →



Customer experience journey map

Understand customer needs, motivations, and obstacles for an experience.

Open the template →



Strengths, weaknesses, opportunities & threats

Identify strengths, weaknesses, opportunities, and threats (SWOT) to develop a plan.

Open the template →