Ideation Phase
Brainstorm & Idea Prioritization Template

	15 june 2025
ID	LTVIP2025TMID43910
ct Name	GrainPalette A Deep Learning Odyssey In R... Type Classification Through Transfer Learni...
num Marks	4 Marks

torm & Idea Prioritization Template: Brainstorming provides a free

nment that encourages everyone within a

o participate in the creative thinking process that leads to problem solving. Priori

e over value, out-of-the-box ideas are welcome and built upon, and all participan

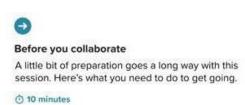raged to collaborate, helping each other develop a rich amount of creative solut

is template in your own brainstorming sessions so your team can unleash their

ation and start shaping concepts even if you're not sitting in the same room.

nce: https://www.mural.co/templates/brainstorm-and-idea-prioritization

: Team Gathering, Collaboration and Select the Problem Statement

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.

⏱ 10 minutes

Define your problem statement

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

⏱ 5 minutes

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⏱ **5 minutes**

PROBLEM

How might we make accurate rice type identification affordable and accessible to all farmers, regardless of their resources?

Key rules of brainstorming

To run an smooth and productive session

Stay in topic.

Encourage wild ideas.

Defer judgment.

Listen to others.

Go for volume.

If possible, be visual.

...deas that come to mind
...r problem statement.

Allow farmers to anonymously contribute rice grain images to a community dataset to improve model accuracy over time.

Add support for more local languages beyond just the most common ones.

Include short videos or guides within the app explaining rice types and farming practices.

Make the image capture process a little game to teach farmers how to take good pictures for accurate AI analysis.

Investigate if there are even more efficient, open-source transfer learning models we could use to reduce app size and processing needs.

Make the app interface extremely basic with large icons, minimal text – think grandpa-friendly!

Explore partnerships with mobile network providers to offer discounted data packs specifically for agricultural apps like ours.

Create a simplified, smaller app version that uses less data and works better on basic smartphones.

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Actively pursue government grants or subsidies for agricultural technology

Partner with local agricultural content creators (YouTubers,

In very resource-poor areas, explore partnerships to offer

Set up a system for automatically retraining the AI model with new farmer-contributed data

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

App Functionality & AI

Investigate if there are even more efficient, open-source transfer learning models we could use to reduce app size and processing needs.

Allow farmers to anonymously contribute rice grain images to a community dataset to improve model accuracy over time.

Set up a system for automatically retraining the AI model with new farmer-contributed data to keep improving accuracy over time.

Easy way for farmers to report if the prediction was wrong and ideally, provide the correct rice type, to use as error correction data.

Simplifying User Experience & Providing Guid

Provide downloadable guides (PDF or video) on how to collect and photograph rice grains for best AI analysis.

Include short videos or guides within the app explaining rice types and farming practices.

Make the app interface extremely basic with large icons, minimal text – think grandpa-friendly!

Make the image capture process a little game to teach farmers how to take good pictures for accurate AI analysis.

Make the app show a "confidence score" for each prediction, so farmers know how certain the AI is.

hips & Distribution

Explore partnerships with mobile network providers to offer discounted data packs specifically for agricultural apps like ours.

Adding Farmer Value & Practical Features

Add support for more local languages beyond just the most common ones.

Direct button in the app to connect to a human agricultural expert for more complex questions (maybe a paid premium feature, or limited free initial consultations).

e same page about what's important
deas on this grid to determine which
ch are feasible.

resource-
as, explore
ips to offer
basic, low-
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ed with the
lette app.

Actively pursue government grants or subsidies for agricultural technology initiatives to make the app free or heavily discounted for farmers.

Set up a system for automatically retraining the AI model with new farmer-contributed data to keep improving accuracy over time.

Easy way for farmers to report if the prediction was wrong and ideally, provide the correct rice type, to use as error correction data.

Improve the offline mode so it can do more processing locally, even if the initial model download needs internet.

Allow farmers to anonymously contribute rice grain images to a community dataset to improve model accuracy over time.