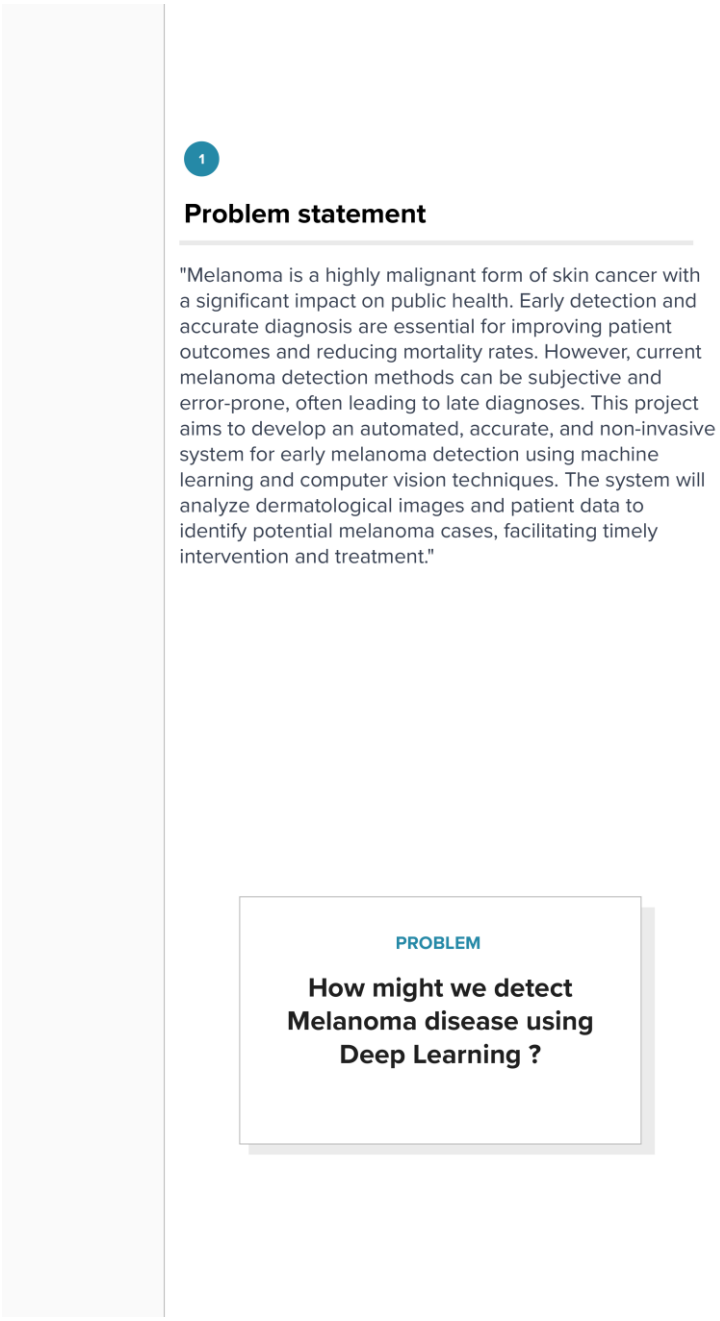
Ideation Phase
Brainstorm & Idea Prioritization Template

Date	29 October 2023
Team ID	Team-592277
Project Name	End-To-End Deep Learning Project For Detecting Melanoma Diseases.
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization Template:

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

Step-1: Team Gathering, Collaboration and Select the Problem Statement



Step-2: Brainstorm, Idea Listing and Grouping

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Brainstorm

Alex

Gather information about melanoma, its prevalence, and the current methods of detection.

- Outline your approach for splitting data into training, validation, and test sets.
- Define evaluation metrics (e.g., accuracy, precision, recall, F1-score) for model performance.

Consider various sources of data:
- Dermatological images
- Patient history
- Biopsy results

Prabhat

Brainstorm various machine learning and deep learning models:
- Convolutional Neural Networks (CNNs)
- Support Vector Machines (SVM)
- Decision Trees
- Ensemble methods

Explore the importance of early detection and its impact on patient outcomes.

- Explore techniques for hyperparameter tuning.
- Consider data augmentation methods to improve model performance.

Saifulla

- Explore techniques for hyperparameter tuning.
- Consider data augmentation methods to improve model performance.

- Describe the testing process, including user testing and clinical validation.
- Address any feedback and make necessary improvements.

- Create documentation for the project, including code, model details, and user guides.
- Prepare a final report summarizing the project's findings and outcomes.

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Group ideas

- Create a timeline with milestones for different project phases.
- Ensure a realistic and achievable project schedule.

- List the resources required, including hardware, software, and funding.
- Estimate the budget needed for the project.

- Identify potential risks and challenges, such as data privacy issues or model performance limitations.
- Develop strategies to mitigate these risks.

Step-3: Idea Prioritization

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Prioritize