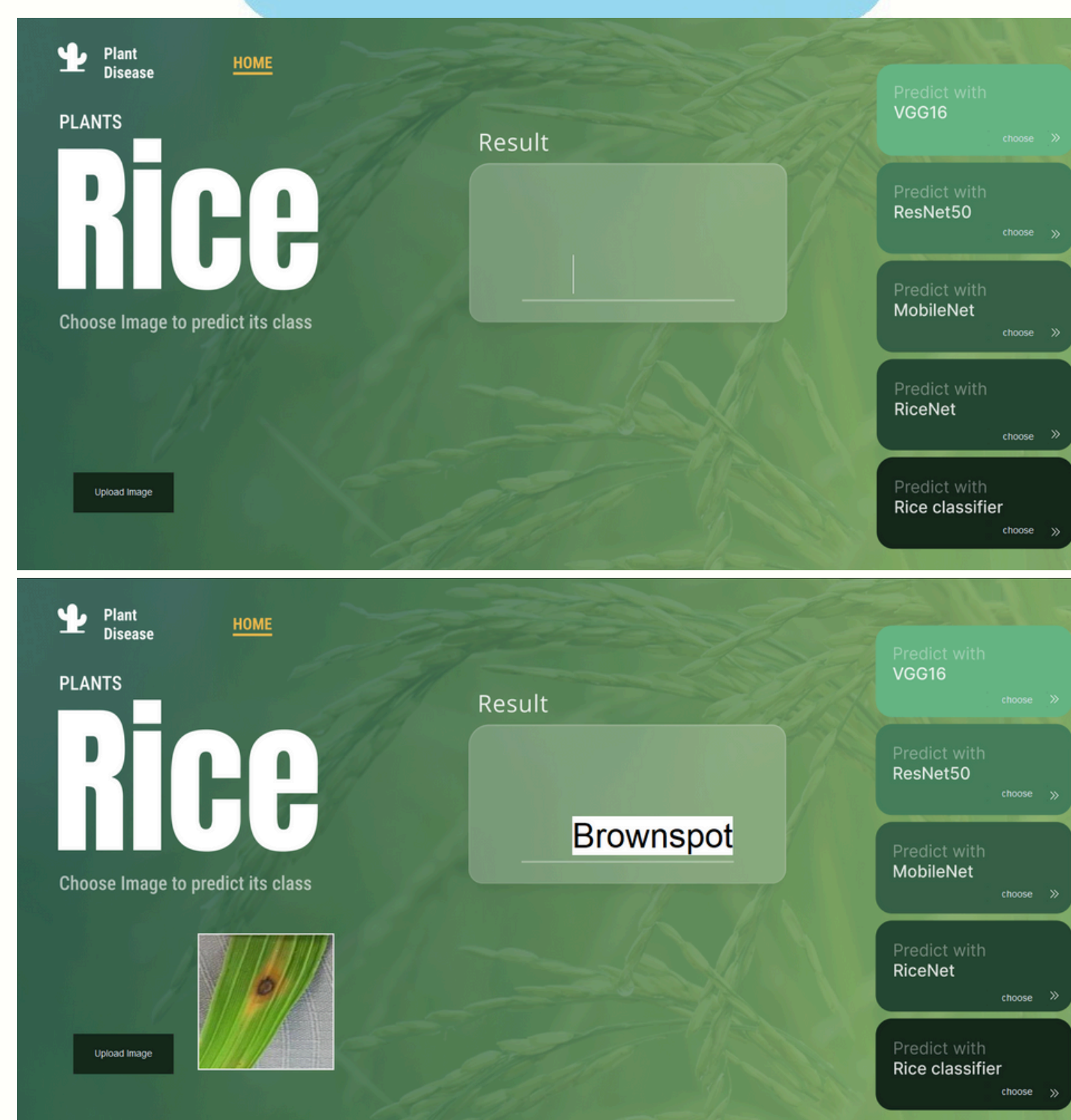


Introduction

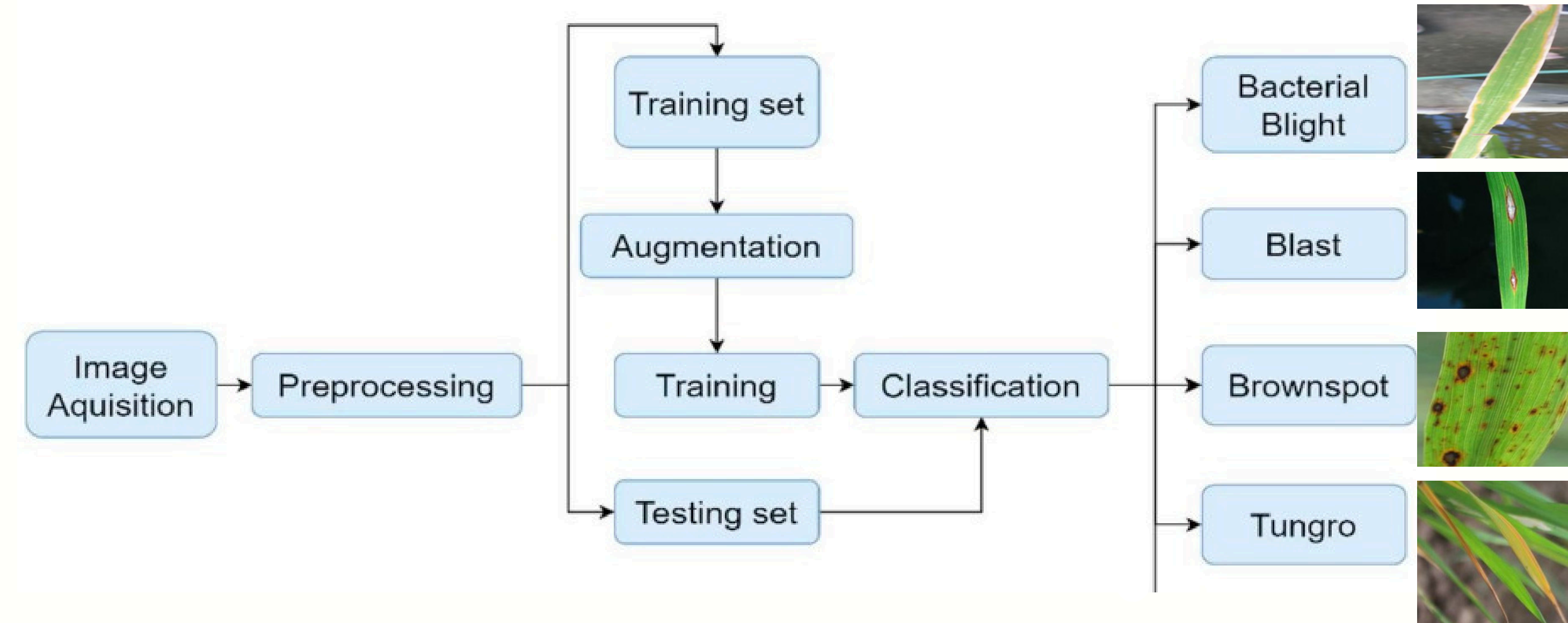
This project aims to **detect rice leaf diseases** using deep learning models, including VGG16, MobileNet, ResNet55, and a custom-built CNN. The system is designed to classify rice leaf images into **four disease categories**, helping in early detection and effective disease management. A user-friendly graphical interface is also included to make the system easy to use for farmers and researchers.

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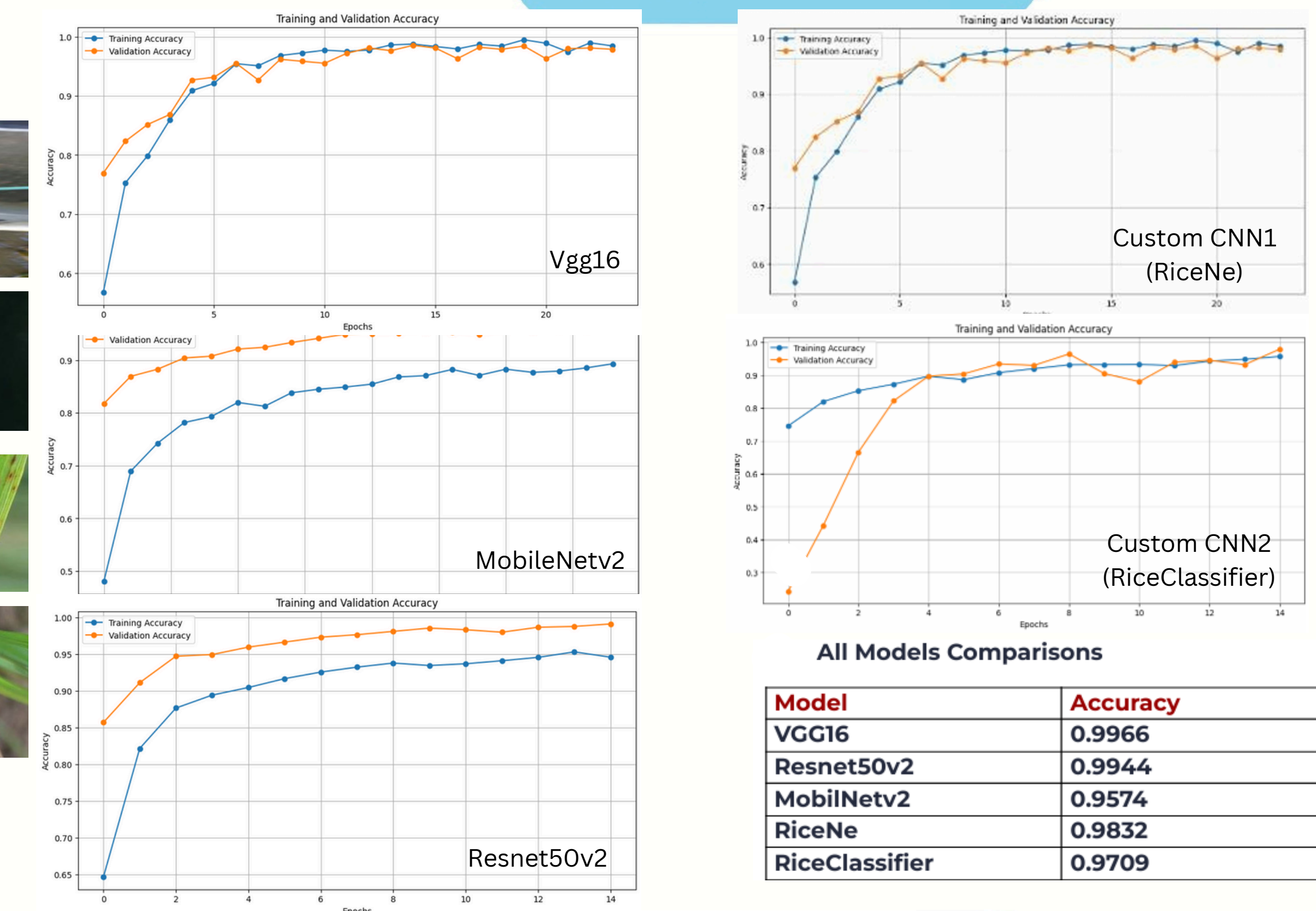
System UI



System Architecture



Results



References

- Hastari, D., Winanda, S., Pratama, A. R., Nurhaliza, N., & Ginting, E. S. (2024). Application of CNN ResNet-50 V2 on rice plant disease classification. <https://doi.org/10.57152/predates.v1i2.865>
- Suseno, J. R. K., Azhar, Y., & Minarno, A. E. (2023). Pretrained VGG16 for rice leaf disease classification. <https://doi.org/10.22219/kinetik.v8i1.1592>
- Singha, S. P., Pritamdas, K., Devia, K. J., & Devia, S. D. (2023). Custom CNN for rice plant disease detection. <https://doi.org/10.1016/j.procs.2023.01.179>
- Ahad, M. T., Li, Y., Song, B., & Bhuiyan, T. (2023). Comparison of CNN architectures for rice disease classification. <https://doi.org/10.1016/j.aiaa.2023.07.001>

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Tools

