# Project Design Phase-I Solution Architecture

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| Date | 03 October 2023 |
| Team ID | Team-591577 |
| Project Name | Potato Disease Classification |
| Maximum Marks | 4 Marks |

**Solution Architecture:**

It starts with data acquisition, where potato image data is collected from various sources. The data is then preprocessed to prepare it for further analysis. Next, relevant features are extracted from the preprocessed images using image processing techniques. These features are then fed into a trained machine learning model to generate real-time disease predictions. Based on the identified diseases, the system also provides actionable recommendations for disease management and control strategies. Finally, the system generates reports on disease trends, prevalence, and impact, providing valuable insights to stakeholders.

The architecture is designed to be scalable and efficient, allowing it to handle large volumes of data and provide real-time predictions to a growing user base. It utilizes cloud-based deployment, distributed system architecture, and automated machine learning techniques to ensure its adaptability and effectiveness.