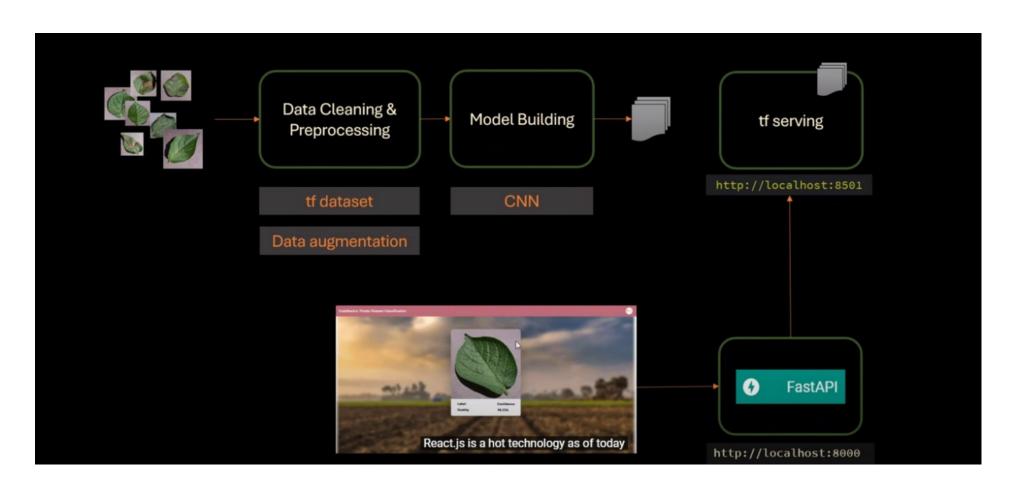
Project Design Phase-II Technology Stack (Architecture & Stack)

Toomiology Stack (Anomicostate & Stack)			
Date	03 November 2023		
Team ID	Team-592967		
Project Name	Project - Potato Disease Classification		
Maximum Marks	4 Marks		

Technical Architecture:



S.N	o Component	Description	Technology
1.	User Interface	How users interact with the application Web UI: HTML, CSS, JavaScript, React Js, A - Mobile App: React Native, Flutter, Swift (for iO	<u> </u>
2.	Application Logic-1	Core application logic for processing images.	Python (TensorFlow, PyTorch)

3. Application Logic-2 Speech-to-Text logic for converting voice commands. IBM Watson Speech to Text Service

4. Application Logic-3 Chatbot logic for user interaction. IBM Watson Assistant

5. Database Storage for application data. MySQL, MongoDB (NoSQL)

6. Cloud Database Cloud-based database service. IBM Db2 on Cloud, IBM Cloudant

7. File Storage File storage requirements for images and data. IBM Object Storage, Local Filesystem

8. External API-1 Fetching real-time weather data for analysis. IBM Weather API

9. External API-2 Integration with external services (e.g., Aadhar). Aadhar API

10. Machine Learning Model Model for potato disease classification. Custom CNN (Convolutional Neural Network) model or pre-trained model (e.g., MobileNet, ResNet)

11. Infrastructure (Server/Cloud) Deployment Configuration:

Local Server Configuration: Local development environment for testing. Local Server (e.g., Flask development server)

Cloud Server Configuration: Cloud deployment for scalability.

- Cloud Foundry, Kubernetes on IBM Cloud, AWS, Azure, or Google Cloud Platform

S.N o	Characteristics	Description	Technology
4.	Availability	Justify the availability of application (e.g. use	Technology used

			of load balancers, distributed servers etc.)	
5	5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Technology used

References: