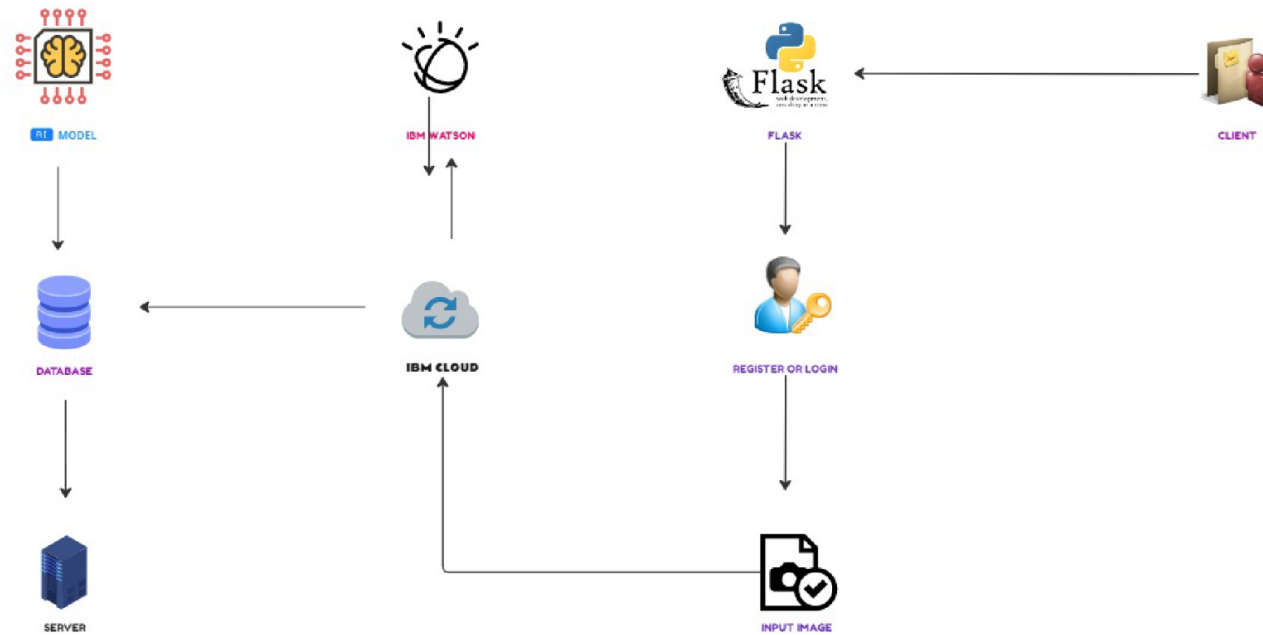


## Project Design Phase-II

### Technology Architecture & Stack

Project Name	Intelligent Vehicle Damage Assessment and Cost Estimator for Insurance Companies
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#### Technical Architecture:



**Table-1 : Components & Technologies:**

<b>S.No</b>	<b>Component</b>	<b>Description</b>	<b>Technology</b>
1.	<b>User Interface</b>	The user interacts with the web application	HTML, CSS, Python
2.	<b>Application Logic-1</b>	Gets the user input image	Python
3.	<b>Application Logic-2</b>	Obtaining model output for damage prediction	IBM Watson , Python
4.	<b>Application Logic-3</b>	Obtaining model output for cost estimation	IBM Watson , Python
5.	<b>Database</b>	Data Type – Details of images and user inputs is stored	MySQL, Js, IBM DB2
6.	<b>Cloud Database</b>	A database service in the cloud	IBM DB2, IBM Cloudant etc.
7.	<b>File Storage</b>	User details and user input received The images of the vehicle are stored in the cloud	IBM Block Storage or Other Storage Service or Local Filesystem
8.	<b>Machine Learning Model</b>	The purpose of the AI model is to estimate the cost of the damaged vehicle.	Object Recognition Model, CNN Based model, etc.
9.	<b>Infrastructure (Server / Cloud)</b>	Let's use the AI model on the cloud server Using Flask on a Web Page	Local, Cloud Foundry, Kubernetes,Python Flask etc.

**Table-2: Application Characteristics:**

S.No	Characteristics	Description	Technology
1.	<b>Open-Source Frameworks</b>	IBM Watson open source frameworks are used	Open source architecture technology IBM Watson
2.	<b>Security Implementations</b>	IBM Cloud	certified Watson Assistant Encrypted file systems are encrypted Storage systems, key management systems.
3.	<b>Scalable Architecture</b>	Web Server - Static and dynamic website content Existing on the website will be updated accordingly User requests and suggestions Application Server - Basic Upgrade Integrating website functionality and updates The logic in the website can be done Database Server – Based on varying inputs The user supplied database will be modified continuously	IBM Watson Assistant, Python, MySQL
4.	<b>Availability</b>	The AI model is readily available to users any time	IBM Watson Cloud assistance
5.	<b>Performance</b>	IBM Watson - Automated processes, deep The learning model is trained using IBM Watson Studio For better performance and faster access.	IBM Watson Assistant